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## Title word cross-reference

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## References

**Leatherland:1990:HMA**

- [1] J. F. Leatherland, P. K. Reddy, and T. J. Lam. Hepatic 5*I*-monodeiodinase activity in teleosts *in vitro*: A survey of thirty-three species. *Fish Physiology and Biochemistry*, 8(1):1–10, January 1990. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004426>.

**Bell:1990:OGD**

- [2] J. Gordon Bell and Colin B. Cowey. Oxidation of glutathione during hydroperoxide metabolism in isolated hepatocytes of rainbow trout (*Salmo gairdneri*). *Fish Physiology and Biochemistry*, 8(1):11–17, January 1990. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004427>.

**Marshall:1990:VRG**

- [3] William S. Marshall, Sharon E. Bryson, and M. Michelle Sapp. Volume regulation in glutathione-treated brook trout (*Salvelinus fontinalis*) erythrocytes. *Fish Physiology and Biochemistry*, 8(1):19–28, January 1990. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004428>.

**Fauconneau:1990:MPL**

- [4] Benoit Fauconneau and Sophie Tesseraud. Measurement of plasma leucine flux in rainbow trout (*Salmo gairneri* R.) using osmotic pump. Preliminary investigations on influence of diet. *Fish Physiology and Biochemistry*, 8(1):29–44, January 1990. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004429>.

**Madsen:1990:CTI**

- [5] Steffen S. Madsen. Cortisol treatment improves the development of hypoosmoregulatory mechanisms in the euryhaline rainbow trout, *Salmo gairdneri*. *Fish Physiology and Biochemistry*, 8(1):45–52, January 1990. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004430>.

**Boyd:1990:ABI**

- [6] R. B. Boyd, J. Atkin, and A. L. DeVries. Absence of binding and impermeability to ferritins of gill endothelium in marine teleosts. *Fish Physiology and Biochemistry*, 8(1):53–60, January 1990. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004431>.

**Gehrke:1990:RCW**

- [7] Peter C. Gehrke, Larry E. Fidler, and David J. Randall. A respirometer with controlled water quality and computerized data acquisition for experiments with swimming fish. *Fish Physiology and Biochemistry*, 8(1):61–67, January 1990. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004432>.

**Davison:1990:OUA**

- [8] William Davison, Craig E. Franklin, and Peter W. Carey. Oxygen uptake in the Antarctic teleost *Pagothenia borchgrevinkii*. Limitations imposed by X-cell gill disease. *Fish Physiology and Biochemistry*, 8(1):69–77, January 1990. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004433>.

**Deer:1990:EPT**

- [9] K. Aranka Deér, János Nemcsók, and Béla Szajáni. Effects of paraquat treatment on fish transaminase molecular subforms. *Fish Physiology and Biochemistry*, 8(1):79–83, January 1990. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004434>.

**Fritzsche:1990:EHB**

- [10] Regina Fritzsche. Effects of hypoxia on blood pressure and heart rate in three marine teleosts. *Fish Physiology and Biochemistry*, 8(1):85–92, January 1990. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004435>.

**Mourente:1990:EBDa**

- [11] G. Mourente and J. M. Odriozola. Effect of broodstock diets on lipid classes and their fatty acid composition in eggs of gilthead sea bream (*Sparus aurata* L.). *Fish Physiology and Biochemistry*, 8(2):93–101, March 1990. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004436>.

**Mourente:1990:EBDb**

- [12] G. Mourente and J. M. Odriozola. Effect of broodstock diets on total lipids and fatty acid composition of larvae of gilthead sea bream (*Sparus aurata* L.) during yolksac stage. *Fish Physiology and Biochemistry*, 8(2):103–110, March 1990. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004437>.

**Tyler:1990:PPC**

- [13] Charles R. Tyler and John P. Sumpter. The purification and partial characterization of carp, *Cyprinus carpio*, vitellogenin. *Fish Physiology and Biochemistry*, 8(2):111–120, March 1990. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004438>.

**Korsgaard:1990:ETI**

- [14] Bodil Korsgaard. Estrogen treatment and its influence on protein synthesis and amino acid metabolism in *Zoarces viviparus* (L) males. *Fish Physiology and Biochemistry*, 8(2):121–127, March 1990. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004439>.

**Tyler:1990:DRC**

- [15] Charles R. Tyler and John P. Sumpter. The development of a radioimmunoassay for carp, *Cyprinus carpio*, vitellogenin. *Fish Physiology and Biochemistry*, 8(2):129–140, March 1990. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004440>.

**Pesonen:1990:RDM**

- [16] Maija Pesonen, Tiiu Hansson, and Tommy Andersson. Regional distribution of microsomal xenobiotic and steroid metabolism in kidney microsomes from rainbow trout. *Fish Physiology and Biochemistry*, 8(2):141–145, March 1990. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004441>.

**McKenzie:1990:DEA**

- [17] David J. McKenzie and David J. Randall. Does *Amia calva* aestivate? *Fish Physiology and Biochemistry*, 8(2):147–158, March 1990. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004442>.

**Suzuki:1990:GHS**

- [18] Reiko Suzuki, Mitsuyo Kishida, and Tetsuya Hirano. Growth hormone secretion during longterm incubation of the pituitary of the Japanese eel, *Anguilla japonica*. *Fish Physiology and Biochemistry*, 8(2):159–165, March 1990. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004443>.

**Leatherland:1990:CST**

- [19] J. F. Leatherland, R. W. Hilliard, and I. C. Potter. Changes in serum thyroxine and triiodothyronine concentrations during metamorphosis of the Southern Hemisphere lamprey *Geotria australis*, and the effect of propylthiouracil, triiodothyronine and environmental temperature on serum thyroid hormone concentrations of ammocoetes. *Fish Physiology and Biochemistry*, 8(2):167–177, March 1990. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004444>.

**Yardley:1990:TSD**

- [20] Darrell G. Yardley. Tissue-specific distribution of amylase in the mosquitofish (*Gambusia affinis holbrooki*). *Fish Physiology and Biochemistry*, 8(2):179–183, March 1990. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004445>.

**Anonymous:1990:RAS**

- [21] Anonymous. Referees of articles submitted to the journal in 1989. *Fish Physiology and Biochemistry*, 8(2):185–186, March 1990. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004446>.

**Price:1990:SCR**

- [22] Jeffrey L. Price, Catherine E. Lyons, and Ru Chih C. Huang. Seasonal cycle and regulation by temperature of antifreeze protein mRNA in a long Island population of winter flounder. *Fish Physiology and Biochemistry*, 8(3):187–198, May 1990. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004457>.

**Saligaut:1990:DCS**

- [23] C. Saligaut, T. Bailhache, and P. Jegou. Dynamic characteristics of serotonin and dopamine metabolism in the rainbow trout brain: a regional

study using liquid chromatography with electrochemical detection. *Fish Physiology and Biochemistry*, 8(3):199–205, May 1990. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004458>.

**Watsky:1990:IDT**

- [24] Mitchell A. Watsky and Samuel H. Gruber. Induction and duration of tonic immobility in the lemon shark, *Negaprion brevirostris*. *Fish Physiology and Biochemistry*, 8(3):207–210, May 1990. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004459>.

**Tyler:1990:DVS**

- [25] C. R. Tyler, J. P. Sumpter, and R. M. Handford. The dynamics of vitellogenin sequestration into vitellogenic ovarian follicles of the rainbow trout, *Salmo gairdneri*. *Fish Physiology and Biochemistry*, 8(3):211–219, May 1990. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004460>.

**Chew:1990:CME**

- [26] S. F. Chew, A. L. L. Lim, and Y. K. Ip. Can the mudskipper, *Periophthalmus chrysospilos*, tolerate acute environmental hypoxic exposure? *Fish Physiology and Biochemistry*, 8(3):221–227, May 1990. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004461>.

**Dannevig:1990:EES**

- [27] B. H. Dannevig, G. Struksnæs, and T. Berg. Endocytosis via the scavenger- and the mannose-receptor in rainbow trout (*Salmo gairdneri*) pronephros is carried out by nonphagocytic cells. *Fish Physiology and Biochemistry*, 8(3):229–238, May 1990. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004462>.

**Tocher:1990:IMPa**

- [28] Douglas R. Tocher. Incorporation and metabolism of (n-3) and (n-6) polyunsaturated fatty acids in phospholipid classes in cultured rainbow trout (*Salmo gairdneri*) cells. *Fish Physiology and Biochemistry*, 8(3):239–249, May 1990. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004463>.

- Tocher:1990:IMPa**
- [29] Douglas R. Tocher and Elizabeth E. Mackinlay. Incorporation and metabolism of (n-3) and (n-6) polyunsaturated fatty acids in phospholipid classes in cultured turbot (*Scophthalmus maximus*) cells. *Fish Physiology and Biochemistry*, 8(3):251–260, May 1990. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004464>.
- Olsen:1990:CLA**
- [30] R. E. Olsen, R. J. Henderson, and B. J. McAndrew. The conversion of linoleic acid and linolenic acid to longer chain polyunsaturated fatty acids by *Tilapia (Oreochromis) nilotica* *in vivo*. *Fish Physiology and Biochemistry*, 8(3):261–270, May 1990. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004465>.
- Madsen:1990:EHR**
- [31] Steffen S. Madsen. Enhanced hypoosmoregulatory response to growth hormone after cortisol treatment in immature rainbow trout, *Salmo gairdneri*. *Fish Physiology and Biochemistry*, 8(4):271–279, July 1990. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00003422>.
- Fok:1990:DTT**
- [32] Pearl Fok, J. G. Eales, and S. B. Brown. Determination of 3,5,3'-triiodo-L-thyronine (T<sub>3</sub>) levels in tissues of rainbow trout (*Salmo gairdneri*) and the effect of low ambient pH and aluminum. *Fish Physiology and Biochemistry*, 8(4):281–290, July 1990. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00003423>.
- Khan:1990:DEP**
- [33] I. A. Khan and K. P. Joy. Differential effects of photoperiod and temperature on hypothalamic monoaminergic activity in the teleost *Channa punctatus* (Bloch). *Fish Physiology and Biochemistry*, 8(4):291–297, July 1990. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00003424>.
- Foster:1990:RGP**
- [34] Glen D. Foster and T. W. Moon. The role of glycogen phosphorylase in the regulation of glycogenolysis by insulin and glucagon in isolated eel (*Anguilla rostrata*) hepatocytes. *Fish Physiology and Biochemistry*,

8(4):299–309, July 1990. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00003425>.

Tocher:1990:PFA

- [35] Douglas R. Tocher and James R. Dick. Polyunsaturated fatty acid metabolism in cultured fish cells: Incorporation and metabolism of (n-3) and (n-6) series acids by Atlantic salmon (*Salmo salar*) cells. *Fish Physiology and Biochemistry*, 8(4):311–319, July 1990. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00003426>.

Eddy:1990:CIE

- [36] F. B. Eddy, N. F. Smith, and C. Grierson. Circulatory and ionoregulatory effects of atrial natriuretic peptide on rainbow trout (*Salmo gairdneri* Richardson) fed normal or high levels of dietary salt. *Fish Physiology and Biochemistry*, 8(4):321–327, July 1990. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00003427>.

Matsuyama:1990:DRS

- [37] Michiya Matsuyama, Shinji Adachi, and Shuhei Matsura. Diurnal rhythm of serum steroid hormone levels in the Japanese whiting, *Sillago japonica*, a daily-spawning teleost. *Fish Physiology and Biochemistry*, 8(4):329–338, July 1990. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00003428>.

Breton:1990:SMA

- [38] B. Breton, T. Mikolajczyk, and H. Vaudry. Studies on the mode of action of neuropeptide Y (NPY) on maturation gonadotropin (GtH) secretion from perfused rainbow trout pituitary glands. *Fish Physiology and Biochemistry*, 8(4):339–346, July 1990. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00003429>.

Baldwin:1990:IPE

- [39] Linda A. Baldwin, Edward J. Calabrese, and Jae-Ho Yang. Isolation of peroxisomal enoyl-CoA hydratase in rainbow trout and immunochemical identification with the bifunctional enzyme. *Fish Physiology and Biochemistry*, 8(4):347–351, July 1990. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00003430>.

**Honma:1990:DHA**

- [40] Y. Honma, A. Chiba, and U. Welsch. Development of the hypophysis of the Arctic lamprey, *Lampetra japonica*. *Fish Physiology and Biochemistry*, 8(5):355–364, September 1990. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00003367>.

**Sower:1990:NCR**

- [41] Stacia A. Sower. Neuroendocrine control of reproduction in lampreys. *Fish Physiology and Biochemistry*, 8(5):365–374, September 1990. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00003368>.

**Larsen:1990:REI**

- [42] Lis Olesen Larsen. The role of external and internal factors during the phase of reproduction in lampreys, with special regard to the interplay between gonadal and extragonadal (interrenal) steroids. *Fish Physiology and Biochemistry*, 8(5):375–388, September 1990. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00003369>.

**Youson:1990:MSI**

- [43] John H. Youson and Richard Cheung. Morphogenesis of somatostatin- and insulin-secreting cells in the lamprey endocrine pancreas. *Fish Physiology and Biochemistry*, 8(5):389–397, September 1990. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00003370>.

**Noorden:1990:GHC**

- [44] Susan Van Noorden. Gut hormones in cyclostomes. *Fish Physiology and Biochemistry*, 8(5):399–408, September 1990. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00003371>.

**Leatherland:1990:SES**

- [45] J. F. Leatherland, D. J. Macey, and I. C. Potter. Seasonal and estradiol- $17\beta$ -stimulated changes in thyroid function of adult *Geotria australis*, a southern hemisphere lamprey. *Fish Physiology and Biochemistry*, 8(5):409–417, September 1990. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00003372>.

- Sandnes:1990:ASD**
- [46] K. Sandnes, T. Hansen, and R. Waagbø. Ascorbate-2-sulfate as a dietary vitamin C source for Atlantic salmon (*Salmo salar*): 1. Growth, bioactivity, haematology and humoral immune response. *Fish Physiology and Biochemistry*, 8(6):419–427, November 1990. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00003398>.
- Maage:1990:ASD**
- [47] Amund Maage, Rune Waagbø, and Kjartan Sandnes. Ascorbate-2-sulfate as a dietary vitamin C source for Atlantic salmon (*Salmo salar*): 2. Effects of dietary levels and immunization on the metabolism of trace elements. *Fish Physiology and Biochemistry*, 8(6):429–436, November 1990. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00003399>.
- George:1990:IPI**
- [48] Stephen G. George and Gordon Buchanan. Isolation, properties and induction of plaice liver cytosolic glutathione-s-transferases. *Fish Physiology and Biochemistry*, 8(6):437–449, November 1990. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00003400>.
- Harris:1990:ICH**
- [49] L. R. Harris, M. H. Cake, and I. C. Potter. An increase in the concentration of hepatic iron during the metamorphosis of the lamprey *Geotria australis* is accompanied by increased superoxide dismutase activity. *Fish Physiology and Biochemistry*, 8(6):451–457, November 1990. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00003401>.
- Jensen:1990:IBR**
- [50] Frank B. Jensen, Niels A. Andersen, and Norbert Heisler. Interrelationships between red cell nucleoside triphosphate content, and blood pH, O<sub>2</sub>-tension and haemoglobin concentration in the carp, *Cyprinus carpio*. *Fish Physiology and Biochemistry*, 8(6):459–464, November 1990. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00003402>.
- Guderley:1990:AMR**
- [51] Helga Guderley and Luc Foley. Anatomic and metabolic responses to thermal acclimation in the ninespine stickleback, *Pungitius pungitius*. *Fish*

*Physiology and Biochemistry*, 8(6):465–473, November 1990. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00003403>.

**Skorkowski:1990:MNP**

- [52] Edward F. Skorkowski and Kenneth B. Storey. Mitochondrial NAD(P)-dependent malic enzyme from herring testicular tissue: Purification, kinetic behaviour and regulatory properties. *Fish Physiology and Biochemistry*, 8(6):475–484, November 1990. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00003404>.

**Loir:1990:PSF**

- [53] M. Loir, C. Labb  , and F. Chambeyron. Proteins of seminal fluid and spermatozoa in the trout (*Oncorhynchus mykiss*): Partial characterization and variations. *Fish Physiology and Biochemistry*, 8(6):485–495, November 1990. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00003405>.

**Solar:1990:SCI**

- [54] I. I. Solar, E. McLean, and E. M. Donaldson. Short communication: Induced ovulation of sablefish (*Anoplopoma fimbria*) following oral administration of des Gly<sup>10</sup>-(D-Ala<sup>6</sup>)LH-RH ethylamide. *Fish Physiology and Biochemistry*, 8(6):497–499, November 1990. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00003406>.

**Rozas:1990:DHR**

- [55] G. Rozas, P. Rey, and M. Aldegunde. Distribution of 5-hydroxytryptamine and related compounds in various brain regions of rainbow trout (*Oncorhynchus mykiss*). *Fish Physiology and Biochemistry*, 8(6):501–506, November 1990. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00003407>.

**Parker:1990:STE**

- [56] Steven J. Parker and Jennifer L. Specker. Salinity and temperature effects on whole-animal thyroid hormone levels in larval and juvenile striped bass, *Morone saxatilis*. *Fish Physiology and Biochemistry*, 8(6):507–514, November 1990. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00003408>.

**Tagawa:1990:THE**

- [57] Masatomo Tagawa, Masaru Tanaka, and Tetsuya Hirano. Thyroid hormones in eggs of various freshwater, marine and diadromous teleosts and their changes during egg development. *Fish Physiology and Biochemistry*, 8(6):515–520, November 1990. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00003409>.

**Burka:1990:ECC**

- [58] John F. Burka, Rosalind M. J. Blair, and Jane E. Hogan. Effects of calcium channel blockers on pharmacologically induced contractions of rainbow trout (*Oncorhynchus mykiss*) intestine. *Fish Physiology and Biochemistry*, 8(6):521–527, November 1990. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00003410>.

**Straetkvern:1990:PPP**

- [59] Knut O. Straetkvern, Arnt J. Raae, and Bernt T. Walther. Purification and physicochemical properties of deoxyribonuclease from pyloric caeca of Atlantic cod (*Gadus morhua* L.). *Fish Physiology and Biochemistry*, 8(6):529–539, November 1990. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00003411>.

**Nordtug:1990:OPP**

- [60] Trond Nordtug and Ole Kristia Berg. Optical properties of the pineal window of Atlantic salmon (*Salmo salar* L.). *Fish Physiology and Biochemistry*, 8(6):541–546, November 1990. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00003412>.

**Anonymous:1990:IA**

- [61] Anonymous. Index of authors. *Fish Physiology and Biochemistry*, 8(6):547–548, November 1990. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00003413>.

**Anonymous:1990:CVN**

- [62] Anonymous. Contents, vol. 8, nos. 1–6, 1990. *Fish Physiology and Biochemistry*, 8(6):549–551, November 1990. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00003414>.

**Goksoyr:1991:ICR**

- [63] Anders Goksøyr, Tommy Andersson, and Lars Förlin. Immunochemical cross-reactivity of  $\beta$ -naphthoflavone-inducible cytochrome P450 (P450IA) in liver microsomes from different fish species and rat. *Fish Physiology and Biochemistry*, 9(1):1–13, March 1991. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF01987606>.

**Ye:1991:EWP**

- [64] Xuemin Ye and D. J. Randall. The effect of water pH on swimming performance in rainbow trout (*Salmo gairdneri*, Richardson). *Fish Physiology and Biochemistry*, 9(1):15–21, March 1991. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF01987607>.

**Ye:1991:EAW**

- [65] Xuemin Ye, D. J. Randall, and Xiqin He. The effect of acid water on oxygen consumption, circulating catecholamines and blood ionic and acid-base status in rainbow trout (*Salmo gairdneri*, Richardson). *Fish Physiology and Biochemistry*, 9(1):23–30, March 1991. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF01987608>.

**Yardley:1991:EDA**

- [66] Darrell G. Yardley and Stacey E. Wild. Effects of diet on amylase expression in the mosquitofish. *Fish Physiology and Biochemistry*, 9(1):31–37, March 1991. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF01987609>.

**Pearson:1991:SHI**

- [67] M. P. Pearson and E. D. Stevens. Size and hematological impact of the splenic erythrocyte reservoir in rainbow trout, *Oncorhynchus mykiss*. *Fish Physiology and Biochemistry*, 9(1):39–50, March 1991. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF01987610>.

**Berlinsky:1991:CGH**

- [68] David L. Berlinsky and Jennifer L. Specker. Changes in gonadal hormones during oocyte development in the striped bass, *Morone saxatilis*. *Fish Physiology and Biochemistry*, 9(1):51–62, March 1991. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF01987611>.

**Ip:1991:OME**

- [69] Y. K. Ip, C. G. L. Lee, and T. J. Lam. Osmoregulation in the mudskipper, *Boleophthalmus boddaerti* I. Responses of branchial cation activated and anion stimulated adenosine triphosphatases to changes in salinity. *Fish Physiology and Biochemistry*, 9(1):63–68, March 1991. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF01987612>.

**Lee:1991:OME**

- [70] C. G. L. Lee, W. P. Low, and Y. K. Ip. Osmoregulation in the mudskipper, *Boleophthalmus boddaerti* II. Transepithelial potential and hormonal control. *Fish Physiology and Biochemistry*, 9(1):69–75, March 1991. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF01987613>.

**Lundin:1991:EVI**

- [71] Kersti Lundin. Effects of vasoactive intestinal polypeptide, substance p, 5-hydroxytryptamine, met-enkephalin and neuropeptides on the swimbladder smooth muscle of two teleost species, *Gadus morhua* and *Anguilla anguilla*. *Fish Physiology and Biochemistry*, 9(1):77–82, March 1991. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF01987614>.

**Johnson:1991:AEC**

- [72] T. P. Johnson, T. W. Moon, and I. A. Johnston. Actions of epinephrine on the contractility of fast and slow skeletal muscle fibres in teleosts. *Fish Physiology and Biochemistry*, 9(1):83–89, March 1991. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF01987615>.

**Szabo:1991:CSA**

- [73] András Szabó, János Nemcsók, and Dénes Budai. Comparative study of acetylcholine synthesis in organs of freshwater teleosts. *Fish Physiology and Biochemistry*, 9(2):93–99, April 1991. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF02265124>.

**Chang:1991:EAS**

- [74] Ching-Fong Chang and Shih-Jung Lin. An enkephalin analog stimulates growth of tilapia. *Fish Physiology and Biochemistry*, 9(2):101–106, April 1991. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF02265125>.

**Gutierrez:1991:CPG**

- [75] J. Gutiérrez, J. Pérez, and M. Carrillo. Changes in plasma glucagon and insulin associated with fasting in sea bass (*Dicentrarchus labrax*). *Fish Physiology and Biochemistry*, 9(2):107–112, April 1991. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF02265126>.

**Kindberg:1991:ITO**

- [76] Grete M. Kindberg, Birgit H. Dannevig, and Trond Berg. Intracellular transport of ovalbumin after *in vivo* endocytosis in rainbow trout liver. *Fish Physiology and Biochemistry*, 9(2):113–121, April 1991. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF02265127>.

**Maneckjee:1991:DPM**

- [77] A. Maneckjee, D. R. Idler, and M. Weisbart. Demonstration of putative membrane and cytosol steroid receptors for  $17\alpha$ ,  $20\beta$ -dihydroxy-4-pregnen-3-one in brook trout *Salvelinus fontinalis* oocytes by photoaffinity labelling using synthetic progestin  $17,21$ -dimethyl- $19$ -nor-pregn-4,9-diene-3,20-dione (R5020). *Fish Physiology and Biochemistry*, 9(2):123–135, April 1991. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF02265128>.

**Maneckjee:1991:TEA**

- [78] A. Maneckjee, D. R. Idler, and M. Weisbart. Transport of  $17\alpha$ ,  $20\beta$ -dihydroxy-4-pregnen-3-one in brook trout *Salvelinus fontinalis* ovarian follicles. *Fish Physiology and Biochemistry*, 9(2):137–144, April 1991. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF02265129>.

**Piferrer:1991:DDD**

- [79] Francesc Piferrer and Edward M. Donaldson. Dosage-dependent differences in the effect of aromatizable and nonaromatizable androgens on the resulting phenotype of Coho salmon (*Oncorhynchus kisutch*). *Fish Physiology and Biochemistry*, 9(2):145–150, April 1991. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF02265130>.

**Olsen:1991:LAC**

- [80] R. E. Olsen, R. J. Henderson, and E. Ringø. Lipids of Arctic charr, *Salvelinus alpinus* (L.) I. Dietary induced changes in lipid class and fatty

acid composition. *Fish Physiology and Biochemistry*, 9(2):151–164, April 1991. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF02265131>.

Dabrowska:1991:MSF

- [81] Henryka Dabrowska, Klaus H. Meyer-Burgdorff, and Klaus-Dietrich Günther. Magnesium status in freshwater fish, common carp (*Cyprinus carpio*, L.) and the dietary protein-magnesium interaction. *Fish Physiology and Biochemistry*, 9(2):165–172, April 1991. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF02265132>.

Tort:1991:BVM

- [82] Lluis Tort, Ferran González-Arch, and Juan Hidalgo. On the blood volume of the Mediterranean dogfish, *Scyliorhinus canicula*. *Fish Physiology and Biochemistry*, 9(2):173–177, April 1991. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF02265133>.

Kennedy:1991:ETB

- [83] Christopher J. Kennedy and Patrick J. Walsh. The effects of temperature on benzo[a]pyrene metabolism and adduct formation in the gulf toadfish, *Opsanus beta*. *Fish Physiology and Biochemistry*, 9(2):179–187, April 1991. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF02265134>.

Celander:1991:CAI

- [84] Malin Celander and Lars Förlin. Catalytic activity and immunochemical quantification of hepatic cytochrome P-450 in  $\beta$ -naphthoflavone and isosafrol treated rainbow trout (*Oncorhynchus mykiss*). *Fish Physiology and Biochemistry*, 9(3):189–197, June 1991. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF02265140>.

Wiegand:1991:IYF

- [85] Murray D. Wiegand, Cheryl L. Kitchen, and Joy M. Hataley. Incorporation of yolk fatty acids into body lipids of goldfish (*Carassius auratus* L.) larvae raised at two different temperatures. *Fish Physiology and Biochemistry*, 9(3):199–213, June 1991. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF02265141>.

**Dabrowski:1991:AGD**

- [86] Konrad Dabrowski. Administration of gulonolactone does not evoke ascorbic acid synthesis in teleost fish. *Fish Physiology and Biochemistry*, 9(3):215–221, June 1991. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF02265142>.

**Sundby:1991:PLI**

- [87] Anne Sundby, K. Eliassen, and Erika M. Plisetskaya. Plasma levels of insulin, glucagon and glucagon-like peptide in salmonids of different weights. *Fish Physiology and Biochemistry*, 9(3):223–230, June 1991. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF02265143>.

**Pelissero:1991:PKI**

- [88] C. Pelissero, F. Le Menn, and J. F. Narbonne. Plasma kinetics of ingested tritiated estradiol and the influence on estradiol plasma levels in the cultured Siberian sturgeon *Acipenser baeri*. *Fish Physiology and Biochemistry*, 9(3):231–245, June 1991. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF02265144>.

**Mommsen:1991:HRM**

- [89] Thomas P. Mommsen, Eva Danulat, and Patrick J. Walsh. Hormonal regulation of metabolism in hepatocytes of the ureogenic teleost *opsanus beta*. *Fish Physiology and Biochemistry*, 9(3):247–252, June 1991. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF02265145>.

**Sundby:1991:PIG**

- [90] A. Sundby, K. A. Eliassen, and T. Asgard. Plasma insulin, glucagon, glucagon-like peptide and glucose levels in response to feeding, starvation and life long restricted feed ration in salmonids. *Fish Physiology and Biochemistry*, 9(3):253–259, June 1991. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF02265146>.

**Oostrom:1991:ITP**

- [91] J. A. Van Oostrom and N. C. Bols. Influence of temperature on the proliferative response of rainbow trout gonadal fibroblasts to cortisol and RU 486. *Fish Physiology and Biochemistry*, 9(3):261–269, June 1991. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF02265147>.

**Arnold-Reed:1991:BAA**

- [92] D. Arnold-Reed, N. Hazon, and R. J. Balment. Biological actions of atrial natriuretic factor in flatfish. *Fish Physiology and Biochemistry*, 9(3):271–277, June 1991. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF02265148>.

**Houston:1991:EFV**

- [93] Arthur Houston, Gwyneth Freeman, and Doreen Korcock. Erythrocyte fractionation by velocity sedimentation and discontinuous density gradient centrifugation. *Fish Physiology and Biochemistry*, 9(3):279–289, June 1991. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF02265149>.

**Giles:1991:SDH**

- [94] M. A. Giles. Strain differences in hemoglobin polymorphism, oxygen consumption, and blood oxygen equilibria in three hatchery broodstocks of Arctic charr, *Salvelinus alpinus*. *Fish Physiology and Biochemistry*, 9(4):291–301, December 1991. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF02265150>.

**Farrell:1991:EET**

- [95] A. P. Farrell, J. A. Johansen, and R. K. Suarez. Effects of exercise-training on cardiac performance and muscle enzymes in rainbow trout, *Oncorhynchus mykiss*. *Fish Physiology and Biochemistry*, 9(4):303–312, December 1991. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF02265151>.

**Munger:1991:EFV**

- [96] R. S. Munger, S. D. Reid, and Chris M. Wood. Extracellular fluid volume measurements in tissues of the rainbow trout (*Oncorhynchus mykiss*) *in vivo* and their effects on intracellular pH and ion calculations. *Fish Physiology and Biochemistry*, 9(4):313–323, December 1991. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF02265152>.

**Labbe:1991:PMT**

- [97] C. Labb  and M. Loir. Plasma membrane of trout spermatozoa: I. Isolation and partial characterization. *Fish Physiology and Biochemistry*, 9(4):325–338, December 1991. CODEN FPBIEP. ISSN 0920-1742 (print),

1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF02265153>.

**Goksoyr:1991:CPS**

- [98] Anders Goksøyr and Håvard E. Larsen. The cytochrome P450 system of Atlantic salmon (*Salmo salar*): I. Basal properties and induction of P450 1A1 in liver of immature and mature fish. *Fish Physiology and Biochemistry*, 9(4):339–349, December 1991. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF02265154>.

**Gutierrez:1991:IRB**

- [99] Joaquim Gutiérrez, Torbjørn Åsgård, and Erika M. Plisetskaya. Insulin-receptor binding in skeletal muscle of trout. *Fish Physiology and Biochemistry*, 9(4):351–360, December 1991. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF02265155>.

**Harmon:1991:PCH**

- [100] Jamie S. Harmon, Kim G. Michelsen, and Mark A. Sheridan. Purification and characterization of hepatic triacylglycerol lipase isolated from rainbow trout, *Oncorhynchus mykiss*. *Fish Physiology and Biochemistry*, 9(4):361–368, December 1991. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF02265156>.

**Veld:1991:GTI**

- [101] Peter A. Van Veld, Unchu Ko, and Donna J. Westbrook. Glutathione S-transferase in intestine, liver and hepatic lesions of mummichog (*Fundulus heteroclitus*) from a creosote-contaminated environment. *Fish Physiology and Biochemistry*, 9(4):369–376, December 1991. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF02265157>.

**Anonymous:1991:A**

- [102] Anonymous. Announcement. *Fish Physiology and Biochemistry*, 9(4):i–ii, December 1991. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF02265158>.

**Danulat:1992:NWE**

- [103] Eva Danulat and Stephan Kempe. Nitrogenous waste excretion and accumulation of urea and ammonia in *Chalcalburnus tarichi* (Cyprinidae),

endemic to the extremely alkaline Lake Van (Eastern Turkey). *Fish Physiology and Biochemistry*, 9(5-6):377–386, February 1992. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF02274218>.

**Shearer:1992:EWB**

- [104] Karl D. Shearer and Torbjørn Åsgård. The effect of water-borne magnesium on the dietary magnesium requirement of the rainbow trout (*Oncorhynchus mykiss*). *Fish Physiology and Biochemistry*, 9(5-6):387–392, February 1992. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF02274219>.

**Olsen:1992:LAC**

- [105] R. E. Olsen and E. Ringø. Lipids of Arctic charr, *Salvelinus alpinus* (L.) II. Influence of dietary fatty acids on the elongation and desaturation of linoleic and linolenic acid. *Fish Physiology and Biochemistry*, 9(5-6):393–399, February 1992. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF02274220>.

**Borlongan:1992:EFA**

- [106] I. G. Borlongan. The essential fatty acid requirement of milkfish (*Chanos chanos* Forsskål). *Fish Physiology and Biochemistry*, 9(5-6):401–407, February 1992. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF02274221>.

**Lind:1992:SEA**

- [107] Ylva Lind. Summertime and early autumn activity of some enzymes in the carbohydrate and fatty acid metabolism of the crucian carp. *Fish Physiology and Biochemistry*, 9(5-6):409–415, February 1992. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF02274222>.

**Filosa:1992:QCS**

- [108] Michael F. Filosa, Misa A. Ito, and John H. Youson. Quantitative changes in a serum protein, AS, during the life cycle of the lamprey, *Petromyzon marinus* L. *Fish Physiology and Biochemistry*, 9(5-6):417–426, February 1992. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF02274223>.

**Uematsu:1992:POI**

- [109] K. Uematsu, M. Kitano, and N. Iijima. Presence and ontogeny of intestinal and pancreatic phospholipase  $A_2$ -like proteins in the Red Sea bream, *Pagrus major*. An immunocytochemical study. *Fish Physiology and Biochemistry*, 9(5-6):427–438, February 1992. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF02274224>.

**Straetkvern:1992:CPD**

- [110] Knut O. Straetkvern, Arnt J. Raae, and Bernt T. Walther. Characterization of a pancreatic DNase from pyloric caeca of Atlantic cod (*Gadus morhua* L.). *Fish Physiology and Biochemistry*, 9(5-6):439–452, February 1992. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF02274225>.

**Gjøen:1992:MLD**

- [111] Tor Gjøen and Trond Berg. Metabolism of low density lipoproteins in rainbow trout. *Fish Physiology and Biochemistry*, 9(5-6):453–461, February 1992. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF02274226>.

**Rozas:1992:AVB**

- [112] G. Rozas, P. Rey, and M. Aldegunde. Annual variations in brain serotonin and related compounds of domesticated rainbow trout (*Oncorhynchus mykiss*). *Fish Physiology and Biochemistry*, 9(5-6):463–471, February 1992. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF02274227>.

**Reddy:1992:RTHa**

- [113] P. K. Reddy and T. J. Lam. Role of thyroid hormones in tilapia larvae (*Oreochromis mossambicus*): I. Effects of the hormones and an antithyroid drug on yolk absorption, growth and development. *Fish Physiology and Biochemistry*, 9(5-6):473–485, February 1992. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF02274228>.

**Reddy:1992:RTHb**

- [114] P. K. Reddy, C. L. Brown, and T. J. Lam. Role of thyroid hormones in tilapia larvae (*Oreochromis mossambicus*): II. Changes in the hormones and 5*t*-monodeiodinase activity during development. *Fish Physiology and Biochemistry*, 9(5-6):487–496, February 1992. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF02274229>.

**Kime:1992:PMO**

- [115] David E. Kime. Progestogen metabolism by ovaries of the roach (*Rutilus rutilus* L.) and the rudd (*Scardinius erythrophthalmus* L.). *Fish Physiology and Biochemistry*, 9(5-6):497–504, February 1992. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF02274230>.

**Haider:1992:OME**

- [116] S. Haider and N. V. Rao. Oocyte maturation in *Clarias batrachus*. III. purification and characterization of maturation-inducing steroid. *Fish Physiology and Biochemistry*, 9(5-6):505–512, February 1992. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF02274231>.

**Lewis:1992:EDT**

- [117] Kim M. Lewis and Stacia A. Sower. Effects of dietary testosterone on growth and sex ratio in juvenile Atlantic salmon (*Salmo salar*). *Fish Physiology and Biochemistry*, 9(5-6):513–517, February 1992. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF02274232>.

**Cake:1992:DEA**

- [118] Max H. Cake, Ian C. Potter, and Mayamin Tajbakhsh. Digestive enzyme activities and their distribution in the alimentary canal of larvae of the three extant lamprey families. *Fish Physiology and Biochemistry*, 10(1):1–10, May 1992. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004649>.

**Johnston:1992:EFF**

- [119] W. L. Johnston and N. T. Glanville. Effect of feeding and fasting on plasma tryptophan and tryptophan to large neutral amino acid ratio, and on brain serotonin turnover in rainbow trout, *Oncorhynchus mykiss*. *Fish Physiology and Biochemistry*, 10(1):11–22, May 1992. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004650>.

**McMillan:1992:PST**

- [120] D. Nelson McMillan and Dominic F. Houlihan. Protein synthesis in trout liver is stimulated by both feeding and fasting. *Fish Physiology and Biochemistry*, 10(1):23–34, May 1992. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004651>.

**Coloso:1992:RTM**

- [121] Relicardo M. Coloso, Lillian B. Tiro, and Lita V. Benitez. Requirement for tryptophan by milkfish (*Chanos chanos* Forsskål) juveniles. *Fish Physiology and Biochemistry*, 10(1):35–41, May 1992. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004652>.

**George:1992:MIC**

- [122] Stephen George, David Burgess, and Nick Frerichs. Metallothionein induction in cultured fibroblasts and liver of a marine flatfish, the turbot, *Scophthalmus maximus*. *Fish Physiology and Biochemistry*, 10(1):43–54, May 1992. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004653>.

**Pottinger:1992:BAC**

- [123] T. G. Pottinger, T. A. Moran, and P. A. Cranwell. The biliary accumulation of corticosteroids in rainbow trout, *Oncorhynchus mykiss*, during acute and chronic stress. *Fish Physiology and Biochemistry*, 10(1):55–66, May 1992. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004654>.

**Farbridge:1992:PGH**

- [124] K. J. Farbridge and J. F. Leatherland. Plasma growth hormone levels in fed and fasted rainbow trout (*Oncorhynchus mykiss*) are decreased following handling stress. *Fish Physiology and Biochemistry*, 10(1):67–73, May 1992. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004655>.

**Mayer-Gostan:1992:EAI**

- [125] N. Mayer-Gostan and R. Naon. Effects of ambient ion concentrations on gill ATPases in fresh water eel, *Anguilla anguilla*. *Fish Physiology and Biochemistry*, 10(1):75–89, May 1992. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004656>.

**Schwalme:1992:QCB**

- [126] Karl Schwalme. A quantitative comparison between diet and body fatty acid composition in wild northern pike (*Esox lucius* L.). *Fish Physiology and Biochemistry*, 10(2):91–98, August 1992. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004520>.

**Bell:1992:IMP**

- [127] J. Gordon Bell and John R. Sargent. The incorporation and metabolism of polyunsaturated fatty acids in phospholipids of cultured cells from chum salmon (*Oncorhynchus keta*). *Fish Physiology and Biochemistry*, 10(2):99–109, August 1992. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004521>.

**Boujard:1992:CPH**

- [128] T. Boujard and J. F. Leatherland. Circadian pattern of hepatosomatic index, liver glycogen and lipid content, plasma non-esterified fatty acid, glucose, T<sub>3</sub>, T<sub>4</sub>, growth hormone and cortisol concentrations in *Oncorhynchus mykiss* held under different photoperiod regimes and fed using demand-feeders. *Fish Physiology and Biochemistry*, 10(2):111–122, August 1992. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004522>.

**Guderley:1992:QMM**

- [129] Helga Guderley and Anna Gawlicka. Qualitative modification of muscle metabolic organization with thermal acclimation of rainbow trout, *Oncorhynchus mykiss*. *Fish Physiology and Biochemistry*, 10(2):123–132, August 1992. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004523>.

**Focant:1992:MPM**

- [130] Bruno Focant, Françoise Huriaux, and Guy Goessens. Myosin, parvalbumin and myofibril expression in barbel (*Barbus barbus* L.) lateral white muscle during development. *Fish Physiology and Biochemistry*, 10(2):133–143, August 1992. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004524>.

**Lega:1992:ELS**

- [131] Yu. V. Lega, A. G. Chernitsky, and N. M. Belkovsky. Effect of low sea water temperature on water balance in the Atlantic salmon, (*Salmo salar* L.). *Fish Physiology and Biochemistry*, 10(2):145–148, August 1992. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004525>.

**Wilson:1992:SPW**

- [132] Rod W. Wilson and Chris M. Wood. Swimming performance, whole body ions, and gill Al accumulation during acclimation to sublethal aluminium

- in juvenile rainbow trout (*Oncorhynchus mykiss*). *Fish Physiology and Biochemistry*, 10(2):149–159, August 1992. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004526>.
- Perrott:1992:DBS**
- [133] M. N. Perrott, C. E. Grierson, and R. J. Balment. Drinking behaviour in sea water and fresh water teleosts, the role of the renin-angiotensin system. *Fish Physiology and Biochemistry*, 10(2):161–168, August 1992. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004527>.
- Stevens:1992:GMR**
- [134] E. Don Stevens. Gill morphometry of the red drum, *Sciaenops ocellatus*. *Fish Physiology and Biochemistry*, 10(2):169–176, August 1992. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004528>.
- Oikawa:1992:RBM**
- [135] Shin Oikawa and Yasuo Itazawa. Relationship between metabolic rate *in vitro* and body mass in a marine teleost, porcupine fish *Pagrus major*. *Fish Physiology and Biochemistry*, 10(3):177–182, October 1992. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004511>.
- Bai:1992:DRL**
- [136] Sungchul C. Bai and Delbert M. Gatlin III. Dietary rutin has limited synergistic effects on vitamin C nutrition of fingerling channel catfish (*Ictalurus punctatus*). *Fish Physiology and Biochemistry*, 10(3):183–188, October 1992. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004512>.
- Harmon:1992:GSL**
- [137] Jamie S. Harmon and Mark A. Sheridan. Glucose-stimulated lipolysis in rainbow trout, *Oncorhynchus mykiss*, liver. *Fish Physiology and Biochemistry*, 10(3):189–199, October 1992. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004513>.
- Ferguson:1992:GTE**
- [138] R. A. Ferguson and K. B. Storey. Gluconeogenesis in trout (*Oncorhynchus mykiss*) white muscle: purification and characterization of fructose-1,6-bisphosphatase activity *in vitro*. *Fish Physiology and Biochemistry*, 10

(3):201–212, October 1992. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004514>.

**Beckman:1992:AAM**

- [139] Bo Beckman and Tariq Mustafa. Arachidonic acid metabolism in gill homogenate and isolated gill cells from rainbow trout, *Oncorhynchus mykiss*: the effect of osmolality, electrolytes and prolactin. *Fish Physiology and Biochemistry*, 10(3):213–222, October 1992. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004515>.

**Degani:1992:EID**

- [140] Gad Degani and M. Abraham. Effect of insulin in the diet on the growth of European eels (*Anguilla anguilla* L.). *Fish Physiology and Biochemistry*, 10(3):223–227, October 1992. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004516>.

**Mackett:1992:HCI**

- [141] D. B. Mackett, W. H. Tam, and J. N. Fryer. Histological changes in insulin-immunoreactive pancreatic  $\beta$ -cells, and suppression of insulin secretion and somatotrope activity in brook trout (*Salvelinus fontinalis*) maintained on reduced food intake or exposed to acidic environment. *Fish Physiology and Biochemistry*, 10(3):229–243, October 1992. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004517>.

**Farbridge:1992:TCP**

- [142] K. J. Farbridge and J. F. Leatherland. Temporal changes in plasma thyroid hormone, growth hormone and free fatty acid concentrations, and hepatic 5 $\prime$ -monodeiodinase activity, lipid and protein content during chronic fasting and re-feeding in rainbow trout (*Oncorhynchus mykiss*). *Fish Physiology and Biochemistry*, 10(3):245–257, October 1992. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004518>.

**Hsiao:1992:FCS**

- [143] Shyh-Min Hsiao and Albert H. Meier. Freerunning circasemilunar spawning rhythm of *Fundulus grandis* and its temperature compensation. *Fish Physiology and Biochemistry*, 10(3):259–265, October 1992. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004519>.

**Marte:1992:HCA**

- [144] Clarissa L. Marte and T. J. Lam. Hormonal changes accompanying sexual maturation in captive milkfish (*Chanos chanos* Forsskål). *Fish Physiology and Biochemistry*, 10(4):267–275, December 1992. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004475>.

**Hsu:1992:ASE**

- [145] Sheau-Yu Hsu and Frederick Willia Goetz. Angiotensins stimulate *in vitro* ovulation and contraction of brook trout (*Salvelinus fontinalis*) follicles. *Fish Physiology and Biochemistry*, 10(4):277–282, December 1992. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004476>.

**Lahnsteiner:1992:MER**

- [146] F. Lahnsteiner, R. A. Patzner, and T. Weismann. Monosaccharides as energy resources during motility of spermatozoa in *Leuciscus cephalus* (Cyprinidae, Teleostei). *Fish Physiology and Biochemistry*, 10(4):283–289, December 1992. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004477>.

**Larsen:1992:CPS**

- [147] Håvard E. Larsen, Malin Celander, and Anders Goksøyr. The cytochrome P450 system of Atlantic salmon (*Salmo salar*): II. Variations in hepatic catalytic activities and isozyme patterns during an annual reproductive cycle. *Fish Physiology and Biochemistry*, 10(4):291–301, December 1992. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004478>.

**Mazur:1992:UDS**

- [148] Carol Nelson Mazur, D. A. Higgs, and B. E. March. Utilization of dietary starch and glucose tolerance in juvenile Chinook salmon (*Oncorhynchus tshawytscha*) of different strains in seawater. *Fish Physiology and Biochemistry*, 10(4):303–313, December 1992. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004479>.

**Sandnes:1992:MDR**

- [149] Kjartan Sandnes, Ole Torrisen, and Rune Waagbø. The minimum dietary requirement of vitamin C in Atlantic salmon (*Salmo salar*) fry using Ca

- ascorbate-2-monophosphate as dietary source. *Fish Physiology and Biochemistry*, 10(4):315–319, December 1992. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004480>.
- Shiau:1992:IDE**
- [150] Shi-Yen Shiau and Sez-Yuan Chen. The influence of dietary energy levels with and without PCB induction on the growth of tilapia, *Oreochromis niloticus* x *O. aureus*. *Fish Physiology and Biochemistry*, 10 (4):321–326, December 1992. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004481>.
- Perry:1992:IBG**
- [151] S. F. Perry, G. G. Goss, and J. C. Fenwick. Interrelationships between gill chloride cell morphology and calcium uptake in freshwater teleosts. *Fish Physiology and Biochemistry*, 10(4):327–337, December 1992. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004482>.
- Lipke:1992:SIM**
- [152] D. W. Lipke and K. R. Olson. A specific inhibitor of mammalian kallikrein, Phe-Phe-arg-chloromethyl ketone, inhibits the production of vasoactive substances from trout plasma by kallikrein and blocks endogenous kallikrein-like activity in trout gills. *Fish Physiology and Biochemistry*, 10 (4):339–346, December 1992. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004483>.
- Dey:1992:TSI**
- [153] Indranil Dey and Tibor Farkas. Temperature shifts induce adaptive changes in the physical state of carp (*Cyprinus carpio* L.) erythrocyte plasma membranes *in vitro*. *Fish Physiology and Biochemistry*, 10(4): 347–355, December 1992. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004484>.
- Koven:1993:EDL**
- [154] W. M. Koven, S. Kolkovski, and D. Sklan. The effect of dietary lecithin and lipase, as a function of age, on n-9 fatty acid incorporation in the tissue lipids of *Sparus aurata* larvae. *Fish Physiology and Biochemistry*, 10(5):357–364, March 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004502>.

**Lyndon:1993:CTP**

- [155] A. R. Lyndon, I. Davidson, and D. F. Houlihan. Changes in tissue and plasma free amino acid concentrations after feeding in Atlantic cod. *Fish Physiology and Biochemistry*, 10(5):365–375, March 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004503>.

**Woo:1993:IOA**

- [156] N. Y. S. Woo, A. S. B. Chung, and T. B. Ng. Influence of oral administration of estradiol-17 $\beta$  and testosterone on growth, digestion, food conversion and metabolism in the underyearling red sea bream, *Chrysophrys major*. *Fish Physiology and Biochemistry*, 10(5):377–387, March 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004504>.

**Kime:1993:SOT**

- [157] David E. Kime, Shelley Bhattacharya, and Krzysztof Bieniarz. Steroidogenesis by ovaries and testes of the European catfish, the wels (*Silurus glanis*), *in vitro*. *Fish Physiology and Biochemistry*, 10(5):389–398, March 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004505>.

**Harmin:1993:IGH**

- [158] S. A. Harmin and L. W. Crim. Influence of gonadotropic hormone-releasing hormone analog (GnRH-A) on plasma sex steroid profiles and milt production in male winter flounder, *Pseudopleuronectes americanus* (Walbaum). *Fish Physiology and Biochemistry*, 10(5):399–407, March 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004506>.

**Tanaka:1993:PGP**

- [159] Hideki Tanaka, Hirohiko Kagawa, and Keiji Hirose. Purification of gonadotropins (PmGTH I and II) from red seabream (*Pagrus major*) and development of a homologous radioimmunoassay for PmGTH II. *Fish Physiology and Biochemistry*, 10(5):409–418, March 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004507>.

**De:1993:SAA**

- [160] Srabani De, A. K. Dasmahapatra, and A. K. Medda. Stimulation of acetylcholinesterase activity by triiodothyronine in the brain of singi fish, *Heteropneustes fossilis* (Bloch). *Fish Physiology and Biochemistry*, 10

(5):419–424, March 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004508>.

**Senthilkumaran:1993:ACC**

- [161] B. Senthilkumaran and K. P. Joy. Annual cyclic, and castration and cyproterone acetate-induced, changes in sialic acid content of the seminal vesicle of the catfish, *Heteropneustes fossilis* (Bloch). *Fish Physiology and Biochemistry*, 10(5):425–430, March 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004509>.

**Whitaker:1993:CTT**

- [162] Alison Whitaker and J. G. Eales. Comparison of 3,5,3'-triiodo-L-thyronine and L-thyroxine absorption from the intestinal lumen of the fasted rainbow trout, *Oncorhynchus mykiss*. *Fish Physiology and Biochemistry*, 10(5):431–441, March 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004510>.

**Mourente:1993:IMCa**

- [163] Gabriel Mourente and Douglas R. Tocher. Incorporation and metabolism of <sup>14</sup>C-labelled polyunsaturated fatty acids in juvenile gilthead sea bream *Sparus aurata* L. *in vivo*. *Fish Physiology and Biochemistry*, 10(6):443–453, April 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004599>.

**Hemre:1993:DCU**

- [164] Gro-Ingunn Hemre, Øyvind Lie, and Anne Sundby. Dietary carbohydrate utilization in cod (*Gadus morhua*): metabolic responses to feeding and fasting. *Fish Physiology and Biochemistry*, 10(6):455–463, April 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004600>.

**Gjøen:1993:ILD**

- [165] Tor Gjøen and Trond Berg. Interaction of low density lipoproteins with liver cells in rainbow trout. *Fish Physiology and Biochemistry*, 10(6):465–473, April 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004601>.

**Brown:1993:HLT**

- [166] J. Anne Brown and Peter Tytler. Hypoosmoregulation of larvae of the turbot, *Scophthalmus maximus*: drinking and gut function in relation to environmental salinity. *Fish Physiology and Biochemistry*, 10(6):475–483, April 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004602>.

**Salama:1993:RCR**

- [167] Annika Salama. The role of cAMP in regulating the  $\beta$ -adrenergic response of rainbow trout (*Oncorhynchus mykiss*) red blood cells. *Fish Physiology and Biochemistry*, 10(6):485–490, April 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004603>.

**Hanssen:1993:SKF**

- [168] R. G. J. M. Hanssen, N. Mayer-Gostan, and S. E. Wendelaar Bonga. Stanniocalcin kinetics in freshwater and seawater European eel (*Anguilla anguilla*). *Fish Physiology and Biochemistry*, 10(6):491–496, April 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004604>.

**Maule:1993:SCC**

- [169] Alec G. Maule, Carl B. Schreck, and Cameron Sharpe. Seasonal changes in cortisol sensitivity and glucocorticoid receptor affinity and number in leukocytes of Coho salmon. *Fish Physiology and Biochemistry*, 10(6):497–506, April 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004605>.

**McKenzie:1993:ECP**

- [170] D. J. McKenzie, D. J. Randall, and S. Aota. Effects of changes in plasma pH, CO<sub>2</sub> and ammonia on ventilation in trout. *Fish Physiology and Biochemistry*, 10(6):507–515, April 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004606>.

**Anonymous:1993:RAS**

- [171] Anonymous. Referees of articles submitted to the journal in 1992. *Fish Physiology and Biochemistry*, 10(6):517–519, April 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004607>.

**Anonymous:1993:Ea**

- [172] Anonymous. Erratum. *Fish Physiology and Biochemistry*, 10(6):520, April 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004608>.

**Anonymous:1993:CVN**

- [173] Anonymous. Contents, vol. 10, nos. 1–6, April 1993. *Fish Physiology and Biochemistry*, 10(6):i–ii, April 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004609>.

**Anonymous:1993:IA**

- [174] Anonymous. Index of authors. *Fish Physiology and Biochemistry*, 10(6):iii–iv, April 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004610>.

**Perry:1993:BAS**

- [175] Steve F. Perry and Scott D. Reid.  $\beta$ -adrenergic signal transduction in fish: interactive effects of catecholamines and cortisol. *Fish Physiology and Biochemistry*, 11(1-6):??, July 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004567>.

**Groneveld:1993:CSA**

- [176] Diet Gröneveld, Mark J. Hut, and Sjoerd E. Wendelaar Bonga. Cloning and sequence analysis of hypothalamus cDNA encoding tilapia melanin-concentrating hormone. *Fish Physiology and Biochemistry*, 11(1-6):??, July 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004557>.

**Anonymous:1993:P**

- [177] Anonymous. Preface. *Fish Physiology and Biochemistry*, 11(1-6):1–2, July 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004544>.

**Nagahama:1993:MEO**

- [178] Yoshitaka Nagahama, Michiyasu Yoshikuni, and Minoru Tanaka. Molecular endocrinology of oocyte growth and maturation in fish. *Fish Physiology and Biochemistry*, 11(1-6):3–14, July 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004545>.

**Yoshikuni:1993:SBH**

- [179] Michiyasu Yoshikuni, Naoki Shibata, and Yoshitaka Nagahama. Specific binding of [ $^3\text{H}$ ] 17  $\alpha$ , 20  $\beta$ -dihydroxy-4-pregnen-3-one to oocyte cortices of rainbow trout (*Oncorhynchus mykiss*). *Fish Physiology and Biochemistry*, 11(1-6):15–24, July 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004546>.

**Chang:1993:IMM**

- [180] John P. Chang, Richard M. Jobin, and Anderson O. L. Wong. Intracellular mechanisms mediating gonadotropin and growth hormone release in the goldfish, *Carassius auratus*. *Fish Physiology and Biochemistry*, 11(1-6):25–33, July 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004547>.

**Jobin:1993:IPK**

- [181] Richard M. Jobin and John P. Chang. Involvement of protein kinase C in the modulation of gonadotropin and growth hormone secretion from dispersed goldfish pituitary cells. *Fish Physiology and Biochemistry*, 11(1-6):35–42, July 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004548>.

**Habibi:1993:EGR**

- [182] Hamid R. Habibi and Debananda Pati. Extrapituitary gonadotropin-releasing hormone (GnRH) binding sites in goldfish. *Fish Physiology and Biochemistry*, 11(1-6):43–49, July 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004549>.

**Levavi-Sivan:1993:IMG**

- [183] Berta Levavi-Sivan and Zvi Yaron. Intracellular mediation of GnRH action on GTH release in tilapia. *Fish Physiology and Biochemistry*, 11(1-6):51–59, July 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004550>.

**Xiong:1993:CSP**

- [184] Fei Xiong, Ronald Chin, and Choy L. Hew. Control of salmon pituitary hormone gene expression. *Fish Physiology and Biochemistry*, 11(1-6):63–70, July 1993. CODEN FPBIEP. ISSN 0920-1742 (print),

- 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004551>.
- Lin:1993:RET**
- [185] Xin-Wei Lin, Hao-Ren Lin, and Richard E. Peter. The regulatory effects of thyrotropin-releasing hormone on growth hormone secretion from the pituitary of common carp in vitro. *Fish Physiology and Biochemistry*, 11(1-6):71–76, July 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004552>.
- Wong:1993:DFG**
- [186] Anderson O. L. Wong, John P. Chang, and Richard E. Peter. Dopamine functions as a growth hormone-releasing factor in the goldfish, *Carassius auratus*. *Fish Physiology and Biochemistry*, 11(1-6):77–84, July 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004553>.
- Kah:1993:RBF**
- [187] Olivier Kah, Isabelle Anglade, and David de Monbrison. The reproductive brain in fish. *Fish Physiology and Biochemistry*, 11(1-6):85–98, July 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004554>.
- Dufour:1993:DDR**
- [188] Sylvie Dufour, Maïté Montero, and Yves-Alain Fontaine. Differential distribution and response to experimental sexual maturation of two forms of brain gonadotropin-releasing hormone (GnRH) in the European eel, *Anguilla anguilla*. *Fish Physiology and Biochemistry*, 11(1-6):99–106, July 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004555>.
- Schulz:1993:FRP**
- [189] R. W. Schulz, H. Paczoska-Eliasiewicz, and H. J. Th. Goos. The feedback regulation of pituitary GTH-II secretion in male African catfish (*Clarias gariepinus*): Participation of 11-ketotestosterone. *Fish Physiology and Biochemistry*, 11(1-6):107–115, July 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004556>.
- Balm:1993:NRA**
- [190] P. H. M. Balm, P. Pepels, and S. E. Wendelaar Bonga. Neuroimmunological regulation of  $\alpha$ -MSH release in tilapia (*Oreochromis mossambicus*).

*Fish Physiology and Biochemistry*, 11(1-6):125–130, July 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004558>.

**Prunet:1993:GEC**

- [191] Patrick Prunet, Jean-François Gonnard, and Gilles Paboeuf. GABA-ergic control of prolactin release in rainbow trout (*Oncorhynchus mykiss*) pituitaries *in vitro*. *Fish Physiology and Biochemistry*, 11(1-6):131–137, July 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004559>.

**Saligaut:1993:CSR**

- [192] C. Saligaut, S. Bennani, and T. Bailhache. Catecholamine synthesis in the rainbow trout (*Oncorhynchus mykiss*) brain: modulation of tyrosine hydroxylase activity. *Fish Physiology and Biochemistry*, 11(1-6):139–144, July 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004560>.

**Fontaine:1993:AEV**

- [193] Y.-A. Fontaine. Adaptations *versus* accommodations: some neuroendocrine aspects in teleost fish. *Fish Physiology and Biochemistry*, 11(1-6):147–154, July 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004561>.

**Sakamoto:1993:OAG**

- [194] Tatsuya Sakamoto, Stephen D. McCormick, and Tetsuya Hirano. Osmoregulatory actions of growth hormone and its mode of action in salmonids: A review. *Fish Physiology and Biochemistry*, 11(1-6):155–164, July 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004562>.

**Leloup:1993:TNA**

- [195] Jacques Leloup and Jean-Marc Lebel. Triiodothyronine is necessary for the action of growth hormone in acclimation to seawater of brown (*Salmo trutta*) and rainbow trout (*Oncorhynchus mykiss*). *Fish Physiology and Biochemistry*, 11(1-6):165–173, July 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004563>.

**Rand-Weaver:1993:PSL**

- [196] Mariann Rand-Weaver and Penny Swanson. Plasma somatotactin levels in Coho salmon (*Oncorhynchus kisutch*) during smoltification and sexual maturation. *Fish Physiology and Biochemistry*, 11(1-6):175–182, July 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004564>.

**Takei:1993:BPF**

- [197] Yoshio Takei and Richard J. Balment. Biochemistry and physiology of a family of eel natriuretic peptides. *Fish Physiology and Biochemistry*, 11(1-6):183–188, July 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004565>.

**Balment:1993:AVF**

- [198] R. J. Balment, J. M. Warne, and N. Hazon. Arginine vasotocin and fish osmoregulation. *Fish Physiology and Biochemistry*, 11(1-6):189–194, July 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004566>.

**Verbost:1993:BCU**

- [199] Pieter M. Verbost, Gert Flik, and Sjoerd E. Wendelaar Bonga. Branchial calcium uptake: possible mechanisms of control by stanniocalcin. *Fish Physiology and Biochemistry*, 11(1-6):205–215, July 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004568>.

**Gac:1993:GHG**

- [200] Florence Le Gac, Odile Blaise, and Claudine Weil. Growth hormone (GH) and reproduction: a review. *Fish Physiology and Biochemistry*, 11(1-6):219–232, July 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004569>.

**Amano:1993:CLG**

- [201] Masafumi Amano, Katsumi Aida, and Yoshihisa Hasegawa. Changes in levels of GnRH in the brain and pituitary and GTH in the pituitary in male masu salmon, *Oncorhynchus masou*, from hatching to maturation. *Fish Physiology and Biochemistry*, 11(1-6):233–240, July 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004570>.

**Naito:1993:UCT**

- [202] Nobuko Naito, Kunimasa Suzuki, and Yasumitsu Nakai. Ultrastructural characteristics of two distinct gonadotropes (GTH I- and GTH II-cells) in the pituitary of rainbow trout *Oncorhynchus mykiss*. *Fish Physiology and Biochemistry*, 11(1-6):241–246, July 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004571>.

**Gutierrez:1993:IIR**

- [203] J. Gutiérrez, M. Párrizas, and J. Planas. Insulin and IGF-i receptors and tyrosine kinase activity in carp ovaries: changes with reproductive cycle. *Fish Physiology and Biochemistry*, 11(1-6):247–254, July 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004572>.

**Zandbergen:1993:GCP**

- [204] M. A. Zandbergen, C. A. van Branden, and J. Peute. GTH-cells in the pituitary of the African catfish, *Clarias gariepinus*, during gonadal maturation: an immuno-electron microscopical study. *Fish Physiology and Biochemistry*, 11(1-6):255–263, July 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004573>.

**Soyano:1993:ETH**

- [205] Kiyoshi Soyano, Toshihiko Saito, and Kohei Yamauchi. Effects of thyroid hormone on gonadotropin-induced steroid production in medaka, *Oryzias latipes*, ovarian follicles. *Fish Physiology and Biochemistry*, 11 (1-6):265–272, July 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004574>.

**Sakai:1993:IER**

- [206] Noriyoshi Sakai, Minoru Tanaka, and Yoshitaka Nagahama. Isolation and expression of rainbow trout (*Oncorhynchus mykiss*) ovarian cDNA encoding 3 $\beta$ -hydroxysteroid dehydrogenase/ $\Delta^{5-4}$ -isomerase. *Fish Physiology and Biochemistry*, 11(1-6):273–279, July 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004575>.

**Latz:1993:AMS**

- [207] M. Latz and R. Reinboth. Androgen metabolism in the skin of the rainbow trout (*Oncorhynchus mykiss*). *Fish Physiology and Biochemistry*,

- 11(1-6):281–286, July 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004576>.
- [208] D. E. Kime and A. P. Scott. *In vitro* synthesis of 20 $\alpha$ -reduced and of 11- and 21-oxygenated steroids and their sulfates by testes of the goldfish (*Carassius auratus*): Testicular synthesis of corticosteroids. *Fish Physiology and Biochemistry*, 11(1-6):287–292, July 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004577>.
- [209] Francesc Piferrer, Michael Redding, and Gloria Callard. Stimulatory and inhibitory regulation of DNA synthesis during spermatogenesis: studies in *Squalus acanthias*. *Fish Physiology and Biochemistry*, 11(1-6):293–298, July 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004578>.
- [210] Pascal Sourdaine and Bernard Jégou. Cell-cell interactions in the testis of the dogfish: stage-related changes in protein synthesis. *Fish Physiology and Biochemistry*, 11(1-6):299–309, July 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004579>.
- [211] J. G. Eales, D. L. MacLatchy, and R. M. Sweeting. Thyroid hormone deiodinase systems in salmonids, and their involvement in the regulation of thyroidal status. *Fish Physiology and Biochemistry*, 11(1-6):313–321, July 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004580>.
- [212] Evelyn Grace de Jesus, Tetsuya Hirano, and Yasao Inui. Flounder metamorphosis: its regulation by various hormones. *Fish Physiology and Biochemistry*, 11(1-6):323–328, July 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004581>.
- [213] Duncan S. MacKenzie, Hae Young Moon, and Lisa R. Perez. Dietary effects on thyroid hormones in the red drum, *Sciaenops ocellatus*. *Fish Physiology and Biochemistry*,

*Physiology and Biochemistry*, 11(1-6):329–335, July 1993. CODEN FP-BIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004582>.

**Boujard:1993:ERA**

- [214] T. Boujard, S. Brett, and J. F. Leatherland. Effect of restricted access to demand-feeders on diurnal pattern of liver composition, plasma metabolites and hormone levels in *Oncorhynchus mykiss*. *Fish Physiology and Biochemistry*, 11(1-6):337–344, July 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004583>.

**Cavari:1993:AFG**

- [215] Benzion Cavari, Yunhan Hong, and Manfred Schartl. All-fish gene constructs for growth hormone gene transfer in fish. *Fish Physiology and Biochemistry*, 11(1-6):345–352, July 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004584>.

**Fine:1993:PCB**

- [216] Mira Fine, Edna Sakal, and Arieh Gertler. Preparation and comparison of biological properties of recombinant carp (*Cyprinus carpio*) growth hormone and its Cys-123 to Ala mutant. *Fish Physiology and Biochemistry*, 11(1-6):353–361, July 1993. CODEN FPPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004585>.

**McLean:1993:GEF**

- [217] Ewen McLean, Edward M. Donaldson, and Lawrence M. Souza. Growth enhancement following dietary delivery of recombinant porcine somatotropin to diploid and triploid Coho salmon (*Oncorhynchus kisutch*). *Fish Physiology and Biochemistry*, 11(1-6):363–369, July 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004586>.

**Duan:1993:ILG**

- [218] Cumming Duan, Stephen J. Duguay, and Erika M. Plisetskaya. Insulin-like growth factor I (IGF-I) mRNA expression in Coho salmon, *Oncorhynchus kisutch*: Tissue distribution and effects of growth hormone/prolactin family proteins. *Fish Physiology and Biochemistry*, 11(1-6):371–379, July 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004587>.

**Niu:1993:DPB**

- [219] Ping-De Niu, Jaime Perez-Sanchez, and Pierre-Yves Le Bail. Development of a protein binding assay for teleost insulin-like growth factor (IGF)-like: relationships between growth hormone (GH) and IGF-like in the blood of rainbow trout (*Oncorhynchus mykiss*). *Fish Physiology and Biochemistry*, 11(1-6):381–391, July 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004588>.

**Marchant:1993:HIE**

- [220] Tracy A. Marchant and Brenda M. Moroz. Hormonal influences on *in vitro* [<sup>35</sup> S]-sulfate uptake by gill arches from the goldfish (*Carassius auratus* L.). *Fish Physiology and Biochemistry*, 11(1-6):393–399, July 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004589>.

**Plisetskaya:1993:IBI**

- [221] Erika M. Plisetskaya, Elena Fabbri, and Celestina Ottolenghi. Insulin binding to isolated hepatocytes of Atlantic salmon and rainbow trout. *Fish Physiology and Biochemistry*, 11(1-6):401–409, July 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004590>.

**Segner:1993:BBI**

- [222] Helmut Segner, Ralf Böhm, and Werner Kloas. Binding and bioactivity of insulin in primary cultures of carp (*Cyprinus carpio*) hepatocytes. *Fish Physiology and Biochemistry*, 11(1-6):411–420, July 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004591>.

**Cowley:1993:ISH**

- [223] Darrin J. Cowley and Mark A. Sheridan. Insulin stimulates hepatic lipogenesis in rainbow trout, *Oncorhynchus mykiss*. *Fish Physiology and Biochemistry*, 11(1-6):421–428, July 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004592>.

**Mommsen:1993:MEF**

- [224] Thomas P. Mommsen and Erika M. Plisetskaya. Metabolic and endocrine functions of glucagon-like peptides — evolutionary and biochemical perspectives. *Fish Physiology and Biochemistry*, 11(1-6):429–438, July 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004593>.

**Yamada:1993:STE**

- [225] Hideaki Yamada, Hiromi Ohta, and Kohei Yamauchi. Serum thyroxine, estradiol- $17\beta$ , and testosterone profiles during the parr-smolt transformation of masu salmon, *Oncorhynchus masou*. *Fish Physiology and Biochemistry*, 12(1):1–9, July 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004317>.

**Schmitz:1993:EAS**

- [226] Monika Schmitz and Ian Mayer. Effect of androgens on seawater adaptation in Arctic char, *Salvelinus alpinus*. *Fish Physiology and Biochemistry*, 12(1):11–20, July 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004318>.

**Vermeulen:1993:SHS**

- [227] G. J. Vermeulen, J. G. D. Lambert, and H. J. Th. Goos. Steroid hormone secretion by testicular tissue from African catfish, *Clarias gariepinus*, in primary culture: identification and quantification by gas chromatography — mass spectrometry. *Fish Physiology and Biochemistry*, 12(1):21–30, July 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004319>.

**Tao:1993:PCI**

- [228] Yunxia Tao, Akihiko Hara, and Craig V. Sullivan. Purification, characterization and immunoassay of striped bass (*Morone saxatilis*) vitellogenin. *Fish Physiology and Biochemistry*, 12(1):31–46, July 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004320>.

**Kalinin:1993:DBS**

- [229] Ana Lúcia Kalinin, Francisco Tadeu Rantin, and Mogens Lesner Glass. Dependence on body size of respiratory function in *Hoplias malabaricus* (Teleostei, Erythrinidae) during graded hypoxia. *Fish Physiology and Biochemistry*, 12(1):47–51, July 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004321>.

**Burka:1993:EAT**

- [230] John F. Burka, Heather A. Briand, and William P. Ireland. The effects of acute temperature change on smooth muscle contractility of rainbow

trout (*Oncorhynchus mykiss* Walbaum) intestine. *Fish Physiology and Biochemistry*, 12(1):53–60, July 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004322>.

**Waagbo:1993:DVC**

- [231] Rune Waagbø, Johan Glette, and Kjartan Sandnes. Dietary vitamin C, immunity and disease resistance in Atlantic salmon (*Salmo salar*). *Fish Physiology and Biochemistry*, 12(1):61–73, July 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004323>.

**Luberda:1993:SPP**

- [232] Zofia Luberda, Jerzy Strzezek, and Miroslaw Luczynski. Some proteolytic properties of hatching liquid in the sea trout, *Salmo trutta* m. *trutta* L. *Fish Physiology and Biochemistry*, 12(1):75–80, July 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004324>.

**Anonymous:1993:Eb**

- [233] Anonymous. Errata. *Fish Physiology and Biochemistry*, 12(1):i, July 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004325>.

**Pelletier:1993:DAC**

- [234] Dany Pelletier, Helga Guderley, and Jean-Denis Dutil. Does the aerobic capacity of fish muscle change with growth rates? *Fish Physiology and Biochemistry*, 12(2):83–93, August 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004373>.

**Davie:1993:BPH**

- [235] Peter S. Davie, Craig E. Franklin, and Gordon C. Grigg. Blood pressure and heart rate during tonic immobility in the black tipped reef shark, *Carcharhinus melanopterus*. *Fish Physiology and Biochemistry*, 12(2):95–100, August 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004374>.

**Borch:1993:CAV**

- [236] Kristian Borch, Frank B. Jensen, and Bent B. Andersen. Cardiac activity, ventilation rate and acid-base regulation in rainbow trout exposed to hypoxia and combined hypoxia and hypercapnia. *Fish Physiology and*

*Biochemistry*, 12(2):101–110, August 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004375>.

**Jensen:1993:INT**

- [237] Frank B. Jensen. Influence of nucleoside triphosphates, inorganic salts, NADH, catecholamines, and oxygen saturation on nitrite-induced oxidation of rainbow trout haemoglobin. *Fish Physiology and Biochemistry*, 12(2):111–117, August 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004376>.

**Mourente:1993:IMCb**

- [238] Gabriel Mourente and Douglas R. Tocher. Incorporation and metabolism of <sup>14</sup>C-labelled polyunsaturated fatty acids in wild-caught juveniles of golden grey mullet, *Liza aurata*, *in vivo*. *Fish Physiology and Biochemistry*, 12(2):119–130, August 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004377>.

**Martin:1993:PMD**

- [239] N. B. Martin, D. F. Houlihan, and R. M. Palmer. Protein metabolism during sexual maturation in female Atlantic salmon (*Salmo salar* L.). *Fish Physiology and Biochemistry*, 12(2):131–141, August 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004378>.

**Pfeiler:1993:CDU**

- [240] Edward Pfeiler. Characterization and distribution of undersulfated chondroitin sulfate and chondroitin in leptocephalous larvae of elopomorph fishes. *Fish Physiology and Biochemistry*, 12(2):143–148, August 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004379>.

**Leatherland:1993:IDP**

- [241] J. F. Leatherland and S. B. Barrett. Investigations into the development of the pituitary gland-thyroid tissue axis and distribution of tissue thyroid hormone content in embryonic Coho salmon (*Oncorhynchus kisutch*) from Lake Ontario. *Fish Physiology and Biochemistry*, 12(2):149–159, August 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004380>.

**Cuil:1993:HRT**

- [242] Zongbin Cuil and Zuoyan Zhu. Hormonal replacement therapy in fish:human growth hormone gene function in hypophysectomized carp. *Fish Physiology and Biochemistry*, 12(2):161–169, August 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004381>.

**Kishida:1993:VTE**

- [243] Mitsuyo Kishida and Jennifer L. Specker. Vitellogenin in tilapia (*Oreochromis mossambicus*): Induction of two forms by estradiol, quantification in plasma and characterization in oocyte extract. *Fish Physiology and Biochemistry*, 12(3):171–182, October 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004365>.

**Currie:1993:ACD**

- [244] S. Currie and B. L. Tufts. An analysis of carbon dioxide transport in arterial and venous blood of the rainbow trout, *Oncorhynchus mykiss*, following exhaustive exercise. *Fish Physiology and Biochemistry*, 12(3):183–192, October 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004366>.

**Veillette:1993:CIF**

- [245] Philip A. Veillette, Ronald J. White, and Jennifer L. Specker. Changes in intestinal fluid transport in Atlantic salmon (*Salmo salar* L.) during parr-smolt transformation. *Fish Physiology and Biochemistry*, 12(3):193–202, October 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004367>.

**Kolkovski:1993:EDE**

- [246] S. Kolkovski, A. Tandler, and A. Gertler. The effect of dietary exogenous digestive enzymes on ingestion, assimilation, growth and survival of gilthead seabream (*Sparus aurata*, Sparidae, Linnaeus) larvae. *Fish Physiology and Biochemistry*, 12(3):203–209, October 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004368>.

**Foster:1993:CMH**

- [247] Glen D. Foster, J. Zhang, and T. W. Moon. Carbohydrate metabolism and hepatic zonation in the Atlantic hagfish, *Myxine glutinosa* liver: effects

of hormones. *Fish Physiology and Biochemistry*, 12(3):211–219, October 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004369>.

**Lochmann:1993:EFA**

- [248] Rebecca T. Lochmann and Delbert M. Gatlin III. Essential fatty acid requirement of juvenile red drum (*Sciaenops ocellatus*). *Fish Physiology and Biochemistry*, 12(3):221–235, October 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004370>.

**Jensen:1993:ESP**

- [249] Jørgen Jensen, Paul Karila, and Susanne Holmgren. Effects of substance P and distribution of substance P-like immunoreactivity in nerves supplying the stomach of the cod, *Gadus morhua*. *Fish Physiology and Biochemistry*, 12(3):237–247, October 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004371>.

**Lie:1993:IDF**

- [250] Øyvind Lie, Aslaug Sandvin, and Rune Waagbø. Influence of dietary fatty acids on the lipid composition of lipoproteins in farmed Atlantic salmon (*Salmo salar*). *Fish Physiology and Biochemistry*, 12(3):249–260, October 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004372>.

**Diaz:1993:GSA**

- [251] Raúl E. Diaz and Edward Pfeiler. Glycosidase and sulfatase activities and their possible role in keratan sulfate degradation in metamorphosing bonefish (*Albula* sp.) leptocephali. *Fish Physiology and Biochemistry*, 12 (4):261–268, December 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004411>.

**Iwama:1993:SAB**

- [252] George K. Iwama, Atsushi Ishimatsu, and Norbert Heisler. Site of acid-base relevant ion transfer in the gills of rainbow trout (*Oncorhynchus mykiss*) exposed to environmental hypercapnia. *Fish Physiology and Biochemistry*, 12(4):269–280, December 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004412>.

**Arnesen:1993:FIG**

- [253] Arne M. Arnesen, Even H. Jørgensen, and Malcolm Jobling. Feed intake, growth and osmoregulation in Arctic charr, *Salvelinus alpinus* (L.), transferred from freshwater to saltwater at 8°C during summer and winter. *Fish Physiology and Biochemistry*, 12(4):281–292, December 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004413>.

**Ventrella:1993:LCM**

- [254] V. Ventrella, A. Pagliarani, and A. R. Borgatti. Lipid composition and microsomal ATPase activities in gills and kidneys of warm- and cold-acclimated sea bass (*Dicentrarchus labrax* L.). *Fish Physiology and Biochemistry*, 12(4):293–304, December 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004414>.

**Carter:1993:PNF**

- [255] C. G. Carter, D. F. Houlihan, and A. I. Mitchell. Protein-nitrogen flux and protein growth efficiency of individual Atlantic salmon (*Salmo salar* L.). *Fish Physiology and Biochemistry*, 12(4):305–315, December 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004415>.

**Fynn-Aikins:1993:EFH**

- [256] Kofi Fynn-Aikins, Silas S. O. Hung, and Steven G. Hughes. Effects of feeding a high level of D-glucose on liver function in juvenile white sturgeon (*Acipenser transmontanus*). *Fish Physiology and Biochemistry*, 12(4):317–325, December 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004416>.

**Vijayan:1993:ECH**

- [257] M. M. Vijayan, G. D. Foster, and T. W. Moon. Effects of cortisol on hepatic carbohydrate metabolism and responsiveness to hormones in the sea raven, *Hemitripterus americanus*. *Fish Physiology and Biochemistry*, 12(4):327–335, December 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004417>.

**Okuzawa:1993:CII**

- [258] Koichi Okuzawa, Masafumi Amano, and Hirohiko Kagawa. Chromatographic and immunological identification of gonadotropin-releasing hormone in five marine teleosts. *Fish Physiology and Biochemistry*, 12(4):

- 337–345, December 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004418>.
- [259] John F. Burka, Heather A. Briand, and William P. Ireland. Changes in smooth muscle contractility of rainbow trout (*Oncorhynchus mykiss* Walbaum) intestine during acclimation to altered temperature. *Fish Physiology and Biochemistry*, 12(4):347–355, December 1993. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004419>.
- [260] Andrzej Ciereszko and Konrad Dabrowski. Relationship between biochemical constituents of fish semen and fertility: the effect of short-term storage. *Fish Physiology and Biochemistry*, 12(5):357–367, January 1994. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004300>.
- [261] HaeYoung Lee Moon, Duncan S. MacKenzie, and Delbert M. Gatlin III. Effects of dietary thyroid hormones on the red drum (*Sciaenops ocellatus*). *Fish Physiology and Biochemistry*, 12(5):369–380, January 1994. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004301>.
- [262] Kenth Dimberg. The carbonic anhydrase inhibitor in trout plasma: purification and its effect on carbonic anhydrase activity and the root effect. *Fish Physiology and Biochemistry*, 12(5):381–386, January 1994. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004302>.
- [263] J. S. Lumsden and H. W. Ferguson. Isolation and partial characterization of rainbow trout (*Oncorhynchus mykiss*) gill mucin. *Fish Physiology and Biochemistry*, 12(5):387–398, January 1994. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004303>.
- [264] J. L. Zambonino Infante and C. Cahu. Development and response to a diet change of some digestive enzymes in sea bass (*Dicentrarchus labrax*)

larvae. *Fish Physiology and Biochemistry*, 12(5):399–408, January 1994. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004304>.

**Yang:1994:EDN**

- [265] X. Yang, J. L. Tabachek, and T. A. Dick. Effects of dietary  $n - 3$  polyunsaturated fatty acids on lipid and fatty acid composition and haematology of juvenile Arctic charr *Salvelinus alpinus* (L.). *Fish Physiology and Biochemistry*, 12(5):409–420, January 1994. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004305>.

**Hamre:1994:DCH**

- [266] Kristin Hamre, Brit Hjeltnes, and Øyvind Lie. Decreased concentration of hemoglobin, accumulation of lipid oxidation products and unchanged skeletal muscle in Atlantic salmon (*Salmo salar*) fed low dietary vitamin E. *Fish Physiology and Biochemistry*, 12(5):421–429, January 1994. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004306>.

**Okimoto:1994:PVM**

- [267] Darren K. Okimoto, Joseph J. DiStefano III, and E. Gordon Grau. On plasma volume measurement and the effect of experimental stress in the themale tilapia, *Oreochromis mossambicus*, maintained in fresh water. *Fish Physiology and Biochemistry*, 12(5):431–438, January 1994. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004307>.

**Mazik:1994:EDA**

- [268] Patricia M. Mazik, Steven M. Plakas, and Guy R. Stehly. Effects of dorsal aorta cannulation on the stress response of channel catfish (*Ictalurus punctatus*). *Fish Physiology and Biochemistry*, 12(5):439–444, January 1994. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004308>.

**Wood:1994:CPH**

- [269] Chris M. Wood and Heather Simmons. The conversion of plasma  $\text{HCO}_3^-$  to  $\text{CO}_2$  by rainbow trout red blood cells *in vitro*: adrenergic inhibition and the influence of oxygenation status. *Fish Physiology and Biochemistry*, 12(6):445–454, March 1994. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004447>.

**Reid:1994:QPH**

- [270] Scott D. Reid and Steve F. Perry. Quantification of presumptive  $\text{Na}^+$ / $\text{H}^+$  antiporters of the erythrocytes of trout and eel. *Fish Physiology and Biochemistry*, 12(6):455–463, March 1994. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004448>.

**Goss:1994:MRR**

- [271] Greg G. Goss, Chris M. Wood, and Steve F. Perry. Morphological responses of the rainbow trout (*Oncorhynchus mykiss*) gill to hyperoxia, base ( $\text{NaHCO}_3$ ) and acid ( $\text{HCl}$ ) infusions. *Fish Physiology and Biochemistry*, 12(6):465–477, March 1994. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004449>.

**Fenwick:1994:VCE**

- [272] J. C. Fenwick, W. Davison, and M. E. Forster. In vivo calcitropic effect of some vitamin D compounds in the marine Antarctic teleost, *Pagothenia bernacchii*. *Fish Physiology and Biochemistry*, 12(6):479–484, March 1994. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004450>.

**Johnston:1994:CAP**

- [273] C. E. Johnston, B. S. Horney, and R. Angus. Changes in alkaline phosphatase isoenzyme activity in tissues and plasma of Atlantic salmon (*Salmo salar*) before and during smoltification and gonadal maturation. *Fish Physiology and Biochemistry*, 12(6):485–497, March 1994. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004451>.

**Pottinger:1994:SIC**

- [274] T. G. Pottinger, F. R. Knudsen, and J. Wilson. Stress-induced changes in the affinity and abundance of cytosolic cortisol-binding sites in the liver of rainbow trout, *Oncorhynchus mykiss* (Walbaum), are not accompanied by changes in measurable nuclear binding. *Fish Physiology and Biochemistry*, 12(6):499–511, March 1994. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004452>.

**Thompson:1994:EDV**

- [275] I. Thompson, T. C. Fletcher, and C. J. Secombes. The effect of dietary vitamin A on the immunocompetence of Atlantic salmon (*Salmo salar* L.).

- Fish Physiology and Biochemistry*, 12(6):513–523, March 1994. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004453>.
- Anonymous:1994:RAsA**
- [276] Anonymous. Referees of articles submitted to the journal in 1993. *Fish Physiology and Biochemistry*, 12(6):525–527, March 1994. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004454>.
- Madsen:1994:PSA**
- [277] Steffen S. Madsen, Stephen D. McCormick, and Howard A. Bern. Physiology of seawater acclimation in the striped bass, *Morone saxatilis* (Walbaum). *Fish Physiology and Biochemistry*, 13(1):1–11, May 1994. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004114>.
- Raymond:1994:SVT**
- [278] James A. Raymond. Seasonal variations of trimethylamine oxide and urea in the blood of a cold-adapted marine teleost, the rainbow smelt. *Fish Physiology and Biochemistry*, 13(1):13–22, May 1994. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004115>.
- Floysand:1994:ETA**
- [279] R. Fløysand and K. B. Helle. Effects of temperature and adrenaline on the atrial myocardium of the cultured Atlantic salmon (*Salmo salar*). *Fish Physiology and Biochemistry*, 13(1):23–30, May 1994. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004116>.
- Narnaware:1994:EVS**
- [280] Yuwaraj K. Narnaware, Bridget I. Baker, and Mike G. Tomlinson. The effect of various stresses, corticosteroids and adrenergic agents on phagocytosis in the rainbow trout *Oncorhynchus mykiss*. *Fish Physiology and Biochemistry*, 13(1):31–40, May 1994. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004117>.
- Nagae:1994:ECA**
- [281] Masaki Nagae, Hirotoshi Fuda, and Kohei Yamauchi. The effect of cortisol administration on blood plasma immunoglobulin M (IgM) concentrations

- in masu salmon (*Oncorhynchus masou*). *Fish Physiology and Biochemistry*, 13(1):41–48, May 1994. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004118>.
- Wade:1994:PFA**
- [282] Michael G. Wade, Patrice M. Jacobson, and Glen Van Der Kraak. Polyunsaturated fatty acids do not activate protein kinase C in the testis of the goldfish (*Carassius auratus*). *Fish Physiology and Biochemistry*, 13(1):49–57, May 1994. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004119>.
- Foster:1994:CRL**
- [283] Glen D. Foster, J. Zhang, and T. W. Moon. Are cell redox or lactate dehydrogenase kinetics responsible for the absence of gluconeogenesis from lactate in sea raven, hepatocytes? *Fish Physiology and Biochemistry*, 13(1):59–67, May 1994. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004120>.
- Koven:1994:LDTa**
- [284] W. M. Koven, R. J. Henderson, and J. R. Sargent. Lipid digestion in turbot (*Scophthalmus maximus*). I: Lipid class and fatty acid composition of digesta from different segments of the digestive tract. *Fish Physiology and Biochemistry*, 13(1):69–79, May 1994. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004121>.
- Hylland:1994:PCM**
- [285] K. Hylland, C. Haux, and R. A. Andersen. Properties of cod metallothionein, its presence in different tissues and effects of Cd and Zn treatment. *Fish Physiology and Biochemistry*, 13(1):81–91, May 1994. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004122>.
- Kennedy:1994:ETU**
- [286] C. J. Kennedy and P. J. Walsh. The effects of temperature on the uptake and metabolism of benzo[a]pyrene in isolated gill cells of the gulf toadfish, *Opsanus beta*. *Fish Physiology and Biochemistry*, 13(2):93–103, June 1994. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004335>.

**Bell:1994:EDR**

- [287] J. Gordon Bell, Douglas R. Tocher, and John R. Sargent. Effects of diets rich in linoleic (18:2n – 6) and  $\alpha$ -linolenic (18:3n – 3) acids on the growth, lipid class and fatty acid compositions and eicosanoid production in juvenile turbot (*Scophthalmus maximus* L.). *Fish Physiology and Biochemistry*, 13(2):105–118, June 1994. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004336>.

**Rosjo:1994:ETD**

- [288] Camilla Røsjø, Trond Berg, and Magny S. Thomassen. Effects of temperature and dietary n-3 and n-6 fatty acids on endocytic processes in isolated rainbow trout (*Oncorhynchus mykiss*, Walbaum) hepatocytes. *Fish Physiology and Biochemistry*, 13(2):119–132, June 1994. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004337>.

**Reddy:1994:DTF**

- [289] P. K. Reddy and J. F. Leatherland. Does the time of feeding affect the diurnal rhythms of plasma hormone and glucose concentration and hepatic glycogen content of rainbow trout? *Fish Physiology and Biochemistry*, 13(2):133–140, June 1994. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004338>.

**Olivereau:1994:ISC**

- [290] Madeleine Olivereau and Mariann Rand-Weaver. Immunoreactive somatotactin cells in the pituitary of young, migrating, spawning and spent Chinook salmon, *Oncorhynchus tshawytscha*. *Fish Physiology and Biochemistry*, 13(2):141–151, June 1994. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004339>.

**Biron:1994:CGH**

- [291] Michel Biron and Tillmann J. Benfey. Cortisol, glucose and hematocrit changes during acute stress, cohort sampling, and the diel cycle in diploid and triploid brook trout (*Salvelinus fontinalis* Mitchell). *Fish Physiology and Biochemistry*, 13(2):153–160, June 1994. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004340>.

**Winkoop:1994:SGG**

- [292] A. Van Winkoop, L. P. M. Timmermans, and H. J. Th. Goos. Stimulation of gonadal and germ cell development in larval and juvenile carp (*Cyprinus carpio* L.) by homologous pituitary extract. *Fish Physiology and Biochemistry*, 13(2):161–171, June 1994. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004341>.

**Parwez:1994:OSF**

- [293] I. Parwez, Fauzia A. Sherwani, and S. V. Goswami. Osmoregulation in the stenohaline freshwater catfish, *Heteropneustes fossilis* (Bloch) in deionized water. *Fish Physiology and Biochemistry*, 13(2):173–181, June 1994. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004342>.

**Cornell:1994:CSI**

- [294] Sean C. Cornell, David M. Portesi, and Jennifer L. Specker. Cortisol stimulates intestinal fluid uptake in Atlantic salmon (*Salmo salar*) in the post-smolt stage. *Fish Physiology and Biochemistry*, 13(3):183–190, July 1994. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004356>.

**Mayer:1994:PLI**

- [295] Ian Mayer, Bertil Borg, and Erika M. Plisetskaya. Plasma levels of insulin and liver glycogen contents in one- and two-year old Atlantic salmon (*Salmo salar* L.) during the period of parr-smolt transformation. *Fish Physiology and Biochemistry*, 13(3):191–197, July 1994. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004357>.

**Perez-Sanchez:1994:SCC**

- [296] J. Pérez-Sánchez, H. Martí-Palanca, and P-Y. Le Bail. Seasonal changes in circulating growth hormone (GH), hepatic GH-binding and plasma insulin-like growth factor-i immunoreactivity in a marine fish, gilt-head sea bream, *Sparus aurata*. *Fish Physiology and Biochemistry*, 13 (3):199–208, July 1994. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004358>.

**Mol:1994:HPG**

- [297] K. Mol, N. Byamungu, and E. R. Kühn. Hormonal profile of growing male and female diploids and triploids of the blue tilapia, *Oreochromis*

*aureus*, reared in intensive culture. *Fish Physiology and Biochemistry*, 13(3):209–218, July 1994. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004359>.

**Piferrer:1994:UCE**

- [298] Francesc Piferrer and Edward M. Donaldson. Uptake and clearance of exogenous estradiol-17 $\beta$  and testosterone during the early development of Coho salmon (*Oncorhynchus kisutch*), including eggs, alevins and fry. *Fish Physiology and Biochemistry*, 13(3):219–232, July 1994. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004360>.

**Tagawa:1994:THC**

- [299] M. Tagawa, T. Ogasawara, and T. Hirano. Thyroid hormone concentrations in the gonads of wild chum salmon during maturation. *Fish Physiology and Biochemistry*, 13(3):233–240, July 1994. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004361>.

**Lie:1994:TAT**

- [300] Øyvind Lie, Aslaug Sandvin, and Rune Waagbø. Transport of alpha-tocopherol in Atlantic salmon (*Salmo salar*) during vitellogenesis. *Fish Physiology and Biochemistry*, 13(3):241–247, July 1994. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004362>.

**Mustafa:1994:VPT**

- [301] T. Mustafa and C. Agnisola. Vasoactivity of prostanoids in the trout (*Oncorhynchus mykiss*) coronary system: modification by noradrenaline. *Fish Physiology and Biochemistry*, 13(3):249–261, July 1994. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004363>.

**Abel:1994:EPF**

- [302] Daniel C. Abel, William R. Lowell, and Melody A. Lipke. Elasmobranch pericardial function. 3. The pericardioperitoneal canal in the horn shark *Heterodontus francisci*. *Fish Physiology and Biochemistry*, 13(3):263–274, July 1994. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004364>.

**Koven:1994:LDTb**

- [303] W. M. Koven, R. J. Henderson, and J. R. Sargent. Lipid digestion in turbot (*Scophthalmus maximus*) 11: Lipolysis *in vitro* of  $^{14}\text{C}$ -labelled triacylglycerol, cholesterol ester and phosphatidylcholine by digesta from different segments of the digestive tract. *Fish Physiology and Biochemistry*, 13(4):275–283, October 1994. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00003431>.

**Ogata:1994:WMM**

- [304] Hiroshi Ogata and Takeshi Murai. White muscle of masu salmon, *Oncorhynchus masou masou*, smolts possesses a strong buffering capacity due to a high level of anserine. *Fish Physiology and Biochemistry*, 13(4):285–293, October 1994. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00003432>.

**Mayer:1994:AIG**

- [305] Ian Mayer, Ewen McLean, and Edward M. Donaldson. Antisomatostatin-induced growth acceleration in Chinook salmon (*Oncorhynchus tshawytscha*). *Fish Physiology and Biochemistry*, 13(4):295–300, October 1994. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00003433>.

**Senthilkumaran:1994:EPA**

- [306] B. Senthilkumaran and K. P. Joy. Effects of photoperiod alterations on day-night variations in hypothalamic serotonin content and turnover, and monoamine oxidase activity in the female catfish, *Heteropneustes fossilis* (Bloch). *Fish Physiology and Biochemistry*, 13(4):301–307, October 1994. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00003434>.

**Tyler:1994:EUO**

- [307] C. R. Tyler, J. J. Nagler, and M. A. Turner. Effects of unilateral ovariectomy on recruitment and growth of follicles in the rainbow trout, *Oncorhynchus mykiss*. *Fish Physiology and Biochemistry*, 13(4):309–316, October 1994. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00003435>.

**Kime:1994:SCA**

- [308] David E. Kime, Mohammad A. S. Abdullah, and Piotr Epler. Substrate concentration affects the *in vitro* metabolism of 17-hydroxyprogesterone

by ovaries of the carp, *Cyprinus carpio*. *Fish Physiology and Biochemistry*, 13(4):317–324, October 1994. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00003436>.

**Hwang:1994:CBE**

- [309] Pung-Pung Hwang, Ya-Ni Tsai, and Yu-Chi Tung. Calcium balance in embryos and larvae of the freshwater-adapted teleost, *Oreochromis mossambicus*. *Fish Physiology and Biochemistry*, 13(4):325–333, October 1994. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00003437>.

**Andersson:1994:DIC**

- [310] Tommy Andersson and Anders Goksøyr. Distribution and induction of cytochrome P450 1A1 in the rainbow trout brain. *Fish Physiology and Biochemistry*, 13(4):335–342, October 1994. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00003438>.

**Suzuki:1994:IHB**

- [311] Tohru Suzuki, Tadahide Kurokawa, and Makoto Asashima. Identification of a heparin-binding, mesoderm-inducing peptide in the swim-bladder of the red seabream, *Pagrus major*: a probable fish fibroblast growth factor. *Fish Physiology and Biochemistry*, 13(4):343–352, October 1994. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00003439>.

**Laurent:1994:GEC**

- [312] Pierre Laurent, Suzanne Dunel-Erb, and Jacques Lignon. Gill epithelial cells kinetics in a freshwater teleost, *Oncorhynchus mykiss* during adaptation to ion-poor water and hormonal treatments. *Fish Physiology and Biochemistry*, 13(5):353–370, November 1994. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00003415>.

**Pang:1994:CSP**

- [313] C. S. Pang, M. A. Ali, and S. F. Pang. A comparative study of picomolar affinity 2-[<sup>125</sup>I]iodomelatonin binding sites in the hearts of three salmonid species. *Fish Physiology and Biochemistry*, 13(5):371–378, November 1994. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00003416>.

**Persson:1994:EIC**

- [314] Petra Persson, Kristina Sundell, and Björn Th Björnsson. Estradiol- $17\beta$ -induced calcium uptake and resorption in juvenile rainbow trout, *Oncorhynchus mykiss*. *Fish Physiology and Biochemistry*, 13(5):379–386, November 1994. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00003417>.

**Bandyopadhyay:1994:PPT**

- [315] Arun Bandyopadhyay and Samir Bhattacharya. Purification of putative thyroid hormone receptor from the ovarian nuclei of fresh water perch, *Anabas testudineus*. *Fish Physiology and Biochemistry*, 13(5):387–398, November 1994. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00003418>.

**Matsubara:1994:RUS**

- [316] Takahiro Matsubara. Role of urine in the spawning of female rose bitterling, *Rhodeus ocellatus ocellatus*. *Fish Physiology and Biochemistry*, 13(5):399–405, November 1994. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00003419>.

**Lushchak:1994:IED**

- [317] V. I. Lushchak and K. B. Storey. Influence of exercise on the distribution of enzymes in trout white muscle and kinetic properties of AMP-deaminase from free and bound fractions. *Fish Physiology and Biochemistry*, 13(5):407–418, November 1994. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00003420>.

**Guderley:1994:IAA**

- [318] Helga Guderley, Brigitte A. Lavoie, and Nicole Dubois. The interaction among age, thermal acclimation and growth rate in determining muscle metabolic capacities and tissue masses in the threespine stickleback, *Gasterosteus aculeatus*. *Fish Physiology and Biochemistry*, 13(5):419–431, November 1994. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00003421>.

**Monod:1994:BEA**

- [319] G. Monod, D. Saucier, and L. Astic. Biotransformation enzyme activities in the olfactory organ of rainbow trout (*Oncorhynchus mykiss*).

- Immunocytochemical localization of cytochrome P4501A1 and its induction by  $\beta$ -naphthoflavone. *Fish Physiology and Biochemistry*, 13(6): 433–444, December 1994. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004326>.
- Houston:1994:VVC**
- [320] A. H. Houston and Julie H. Gingras-Bedard. Variable versus constant temperature acclimation regimes: Effects on hemoglobin isomorph profile in goldfish, *Carassius auratus*. *Fish Physiology and Biochemistry*, 13(6): 445–450, December 1994. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004327>.
- Tocher:1994:ESG**
- [321] Douglas R. Tocher, John D. Castell, and John R. Sargent. Effects of salinity on the growth and lipid composition of Atlantic salmon (*Salmo salar*) and turbot (*Scophthalmus maximus*) cells in culture. *Fish Physiology and Biochemistry*, 13(6):451–461, December 1994. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004328>.
- Arndt:1994:CRC**
- [322] Steven K. A. Arndt, Tillmann J. Benfey, and Richard A. Cunjak. A comparison of RNA concentrations and ornithine decarboxylase activity in Atlantic salmon (*Salmo salar*) muscle tissue, with respect to specific growth rates and diel variations. *Fish Physiology and Biochemistry*, 13(6):463–471, December 1994. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004329>.
- Malison:1994:EGC**
- [323] Jeffrey A. Malison, Lynne S. Procarione, and Terrence B. Kayes. Endocrine and gonadal changes during the annual reproductive cycle of the freshwater teleost, *Stizostedion vitreum*. *Fish Physiology and Biochemistry*, 13(6):473–484, December 1994. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004330>.
- Mylonas:1994:THB**
- [324] Costadinos C. Mylonas, Craig V. Sullivan, and Jeffrey M. Hinshaw. Thyroid hormones in brown trout (*Salmo trutta*) reproduction and early development. *Fish Physiology and Biochemistry*, 13(6):485–493, December

1994. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004331>.
- [325] Anonymous. Referees of articles submitted to the journal in 1994. *Fish Physiology and Biochemistry*, 13(6):495–497, December 1994. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004332>.
- [326] Anonymous. Contents, vol. 13, nos. 1–6, 1994. *Fish Physiology and Biochemistry*, 13(6):499–501, December 1994. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004333>.
- [327] Anonymous. Index of authors. *Fish Physiology and Biochemistry*, 13(6):503–504, December 1994. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004334>.
- [328] Birgitta Norberg. Atlantic halibut (*Hippoglossus hippoglossus*) vitellogenin: induction, isolation and partial characterization. *Fish Physiology and Biochemistry*, 14(1):1–13, February 1995. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004286>.
- [329] Efthimia Antonopoulou, Ian Mayer, and Bertil Borg. Effects of aromatase inhibitors on sexual maturation in Atlantic salmon, *Salmo salar*, male parr. *Fish Physiology and Biochemistry*, 14(1):15–24, February 1995. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004287>.
- [330] P. K. Reddy and J. F. Leatherland. Influence of the combination of time of feeding and ration level on the diurnal hormone rhythms in rainbow trout. *Fish Physiology and Biochemistry*, 14(1):25–36, February 1995. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004288>.

**Balm:1995:RIF**

- [331] P. H. M. Balm, H. E. M. G. Haenen, and S. E. Wendelaar Bonga. Regulation of interrenal function in freshwater and sea water adapted tilapia (*Oreochromis mossambicus*). *Fish Physiology and Biochemistry*, 14(1):37–47, February 1995. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004289>.

**Craig:1995:EDL**

- [332] Steven R. Craig, William H. Neill, and Delbert M. Gatlin III. Effects of dietary lipid and environmental salinity on growth, body composition, and cold tolerance of juvenile red drum (*Sciaenops ocellatus*). *Fish Physiology and Biochemistry*, 14(1):49–61, February 1995. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004290>.

**Sephton:1995:LTA**

- [333] D. H. Sephton and W. R. Driedzic. Low temperature acclimation decreases rates of protein synthesis in rainbow trout (*Oncorhynchus mykiss*) heart. *Fish Physiology and Biochemistry*, 14(1):63–69, February 1995. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004291>.

**Jung:1995:PCF**

- [334] A. Jung, P. Johnson, and A. L. DeVries. Protein content and freezing avoidance properties of the subdermal extracellular matrix and serum of the Antarctic snailfish, *Paraliparis devriesi*. *Fish Physiology and Biochemistry*, 14(1):71–80, February 1995. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004292>.

**Waring:1995:IRR**

- [335] Colin P. Waring and J. Anne Brown. Ionoregulatory and respiratory responses of brown trout, *Salmo trutta*, exposed to lethal and sublethal aluminium in acidic soft waters. *Fish Physiology and Biochemistry*, 14(1):81–91, February 1995. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004293>.

**Kakizawa:1995:CPS**

- [336] Sho Kakizawa, Toyoji Kaneko, and Tetsuya Hirano. Changes in plasma somatolactin levels during spawning migration of chum salmon (*Oncorhynchus keta*). *Fish Physiology and Biochemistry*, 14(2):93–101, April

1995. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00002453>.

**Knoph:1995:EMA**

- [337] M. B. Knoph. Effects of metomidate anaesthesia or transfer to pure sea water on plasma parameters in ammonia-exposed Atlantic salmon (*Salmo salar* L.) in sea water. *Fish Physiology and Biochemistry*, 14 (2):103–109, April 1995. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00002454>.

**Wright:1995:AUE**

- [338] P. A. Wright, P. Part, and C. M. Wood. Ammonia and urea excretion in the tidepool sculpin (*Oligocottus maculosus*): sites of excretion, effects of reduced salinity and mechanisms of urea transport. *Fish Physiology and Biochemistry*, 14(2):111–123, April 1995. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00002455>.

**Tocher:1995:ESF**

- [339] Douglas R. Tocher, John D. Castell, and John R. Sargent. Effects of salinity on the fatty acid compositions of total lipid and individual glycerophospholipid classes of Atlantic salmon (*Salmo salar*) and turbot (*Scophthalmus maximus*) cells in culture. *Fish Physiology and Biochemistry*, 14 (2):125–137, April 1995. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00002456>.

**Bell:1995:EDD**

- [340] J. Gordon Bell, John D. Castell, and John R. Sargent. Effects of different dietary arachidonic acid: docosahexaenoic acid ratios on phospholipid fatty acid compositions and prostaglandin production in juvenile turbot (*Scophthalmus maximus*). *Fish Physiology and Biochemistry*, 14(2):139–151, April 1995. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00002457>.

**Carter:1995:EFT**

- [341] C. G. Carter, Z-Y. He, and I. Davidson. Effect of feeding on the tissue free amino acid concentrations in rainbow trout (*Oncorhynchus mykiss* Walbaum). *Fish Physiology and Biochemistry*, 14(2):153–164, April 1995. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00002458>.

**Lin:1995:HEA**

- [342] Jui-Hsing Lin and Shi-Yen Shiau. Hepatic enzyme adaptation to different dietary carbohydrates in juvenile tilapia *Oreochromis niloticus* × *O. aureus*. *Fish Physiology and Biochemistry*, 14(2):165–170, April 1995. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00002459>.

**Zhol:1995:SLM**

- [343] Shengying Zhol, Robert G. Ackman, and Carol Morrison. Storage of lipids in the myosepta of Atlantic salmon (*Salmo salar*). *Fish Physiology and Biochemistry*, 14(2):171–178, April 1995. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00002460>.

**Tantikitti:1995:DPF**

- [344] Chutima Tantikitti and B. E. March. Dynamics of plasma free amino acids in rainbow trout (*Oncorhynchus mykiss*) under variety of dietary conditions. *Fish Physiology and Biochemistry*, 14(3):179–194, June 1995. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004309>.

**Houlihan:1995:PSG**

- [345] D. F. Houlihan, B. H. Pedersen, and J. Brechin. Protein synthesis, growth and energetics in larval herring (*Clupea harengus*) at different feeding regimes. *Fish Physiology and Biochemistry*, 14(3):195–208, June 1995. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004310>.

**Cahu:1995:EMF**

- [346] C. L. Cahu and J. L. Zambonino Infante. Effect of the molecular form of dietary nitrogen supply in sea bass larvae: Response of pancreatic enzymes and intestinal peptidases. *Fish Physiology and Biochemistry*, 14(3):209–214, June 1995. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004311>.

**Sabapathy:1995:SPI**

- [347] Uma Sabapathy and Leng-Hong Teo. Some properties of the intestinal proteases of the rabbitfish, *Siganus canaliculatus* (Park). *Fish Physiology and Biochemistry*, 14(3):215–221, June 1995. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004312>.

**Henderson:1995:DEC**

- [348] R. James Henderson, Moira T. Park, and John R. Sargent. The desaturation and elongation of  $^{14}\text{C}$ -labelled polyunsaturated fatty acids by pike (*Esox lucius* L.) *in vivo*. *Fish Physiology and Biochemistry*, 14(3):223–235, June 1995. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004313>.

**Formacion:1995:OOE**

- [349] M. J. Formacion, B. Venkatesh, and T. J. Lam. Overripening of ovulated eggs in goldfish, *Carassius auratus*: II. Possible involvement of postovulatory follicles and steroids. *Fish Physiology and Biochemistry*, 14(3):237–246, June 1995. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004314>.

**Gelsleichter:1995:PVC**

- [350] James J. Gelsleichter, John A. Musick, and Peter Van Veld. Proteoglycans from the vertebral cartilage of the clearnose skate, *Raja eglanteria*: Inhibition of hydroxyapatite formation. *Fish Physiology and Biochemistry*, 14(3):247–251, June 1995. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004315>.

**Davison:1995:CRA**

- [351] William Davison, Michael Axelsson, and Stefan Nilsson. Cardiovascular responses to acute handling stress in the Antarctic fish *Trematomus bernacchii* are not mediated by circulatory catecholamines. *Fish Physiology and Biochemistry*, 14(3):253–257, June 1995. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004316>.

**Cravedi:1995:IGH**

- [352] J. P. Cravedi, A. Paris, and P. Prunet. Influence of growth hormone on the hepatic mixed function oxidase and transferase systems of rainbow trout. *Fish Physiology and Biochemistry*, 14(4):259–266, August 1995. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004064>.

**Melamed:1995:EGD**

- [353] Philippa Melamed, Noa Eliahu, and Zvi Yaron. The effects of gonadal development and sex steroids on growth hormone secretion in the male

tilapia hybrid (*Oreochromis niloticus* × *O. aureus*). *Fish Physiology and Biochemistry*, 14(4):267–277, August 1995. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004065>.

**Seddiki:1995:EGH**

- [354] H. Seddiki, V. Maxime, and C. Peyraud. Effects of growth hormone on plasma ionic regulation, respiration and extracellular acid-base status in trout (*Oncorhynchus mykiss*) transferred to seawater. *Fish Physiology and Biochemistry*, 14(4):279–288, August 1995. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004066>.

**Vizziano:1995:SRH**

- [355] Denise Vizziano, Florence Le Gac, and Alexis Fostier. Synthesis and regulation of 17 $\alpha$ -hydroxy-20 $\beta$ -dihydroprogesterone in immature males of *Oncorhynchus mykiss*. *Fish Physiology and Biochemistry*, 14(4):289–299, August 1995. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004067>.

**Scott:1995:SUM**

- [356] A. P. Scott, Y. Nagahama, and J. J. Nagler. Sulfation and uptake of the maturation-inducing steroid, 17 $\alpha$ , 20 $\beta$ -dihydroxy-4-pregnen-3-one by rainbow trout ovarian follicles. *Fish Physiology and Biochemistry*, 14(4):301–311, August 1995. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004068>.

**Cuisset:1995:OEV**

- [357] B. Cuisset, A. Fostier, and F. Le Menn. Occurrence and *in vitro* biosynthesis of 11-ketotestosterone in Siberian sturgeon, *Acipenser baeri* Brandt maturing females. *Fish Physiology and Biochemistry*, 14(4):313–322, August 1995. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004069>.

**Dimberg:1995:IPO**

- [358] Kenth Dimberg. Investigation of the pseudobranch organ in rainbow trout (*Oncorhynchus mykiss*): endogenous substrates and activities of carbonic anhydrase, lactate dehydrogenase, and 3-hydroxy-acyl CoA dehydrogenase. *Fish Physiology and Biochemistry*, 14(4):323–327, August 1995. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004070>.

**Persson:1995:TRA**

- [359] Petra Persson, Yasuaki Takagi, and Björn Thrandur Björnsson. Tartrate resistant acid phosphatase as a marker for scale resorption in rainbow trout, *Oncorhynchus mykiss*: effects of estradiol-17 $\beta$  treatment and refeeding. *Fish Physiology and Biochemistry*, 14(4):329–339, August 1995. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004071>.

**McKenzie:1995:EDS**

- [360] D. J. McKenzie, G. Piraccini, and E. W. Taylor. Effects of diet on spontaneous locomotor activity and oxygen consumption in Adriatic sturgeon (*Acipenser naccarii*). *Fish Physiology and Biochemistry*, 14(5):341–355, October 1995. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00003373>.

**Gawlicka:1995:HHC**

- [361] A. Gawlicka, S. J. Teh, and J. de la Noie. Histological and histochemical changes in the digestive tract of white sturgeon larvae during ontogeny. *Fish Physiology and Biochemistry*, 14(5):357–371, October 1995. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00003374>.

**Bell:1995:EDB**

- [362] J. Gordon Bell, Douglas R. Tocher, and John R. Sargent. Effects of dietary borage oil [enriched in  $\gamma$ -linolenic acid,18:3(n-6)] or marine fish oil [enriched in eicosapentaenoic acid,20:5(n-3)] on growth, mortalities, liver histopathology and lipid composition of juvenile turbot (*Scophthalmus maximus*). *Fish Physiology and Biochemistry*, 14(5):373–383, October 1995. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00003375>.

**Segner:1995:MEA**

- [363] Helmut Segner and Johan Verreth. Metabolic enzyme activities in larvae of the African catfish, *Clarias gariepinus*: changes in relation to age and nutrition. *Fish Physiology and Biochemistry*, 14(5):385–398, October 1995. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00003376>.

**Lindner:1995:PJS**

- [364] P. Lindner, A. Eshel, and S. Harpaz. Proteolysis by juvenile sea bass (*Dicentrarchus labrax*) gastrointestinal enzymes as a method for the

- evaluation of feed proteins. *Fish Physiology and Biochemistry*, 14(5):399–407, October 1995. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00003377>.
- [365] K. Dabrowski, R. E. Ciereszko, and J. S. Ottobre. Relationship between vitamin C and plasma concentrations of testosterone in female rainbow trout, *Oncorhynchus mykiss*. *Fish Physiology and Biochemistry*, 14(5):409–414, October 1995. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00003378>.
- [366] Akihiro Takemura and Kazunori Takano. Lysozyme in the ovary of tilapia (*Oreochromis mossambicus*): its purification and some biological properties. *Fish Physiology and Biochemistry*, 14(5):415–421, October 1995. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00003379>.
- [367] Christopher P. Cutler, Ian L. Sanders, and Gordon Cramb. Primary sequence, tissue specificity and mRNA expression of the  $\text{Na}^+$ ,  $\text{K}^+$ -ATPase  $\beta$  1 subunit in the European eel (*Anguilla anguilla*). *Fish Physiology and Biochemistry*, 14(5):423–429, October 1995. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00003380>.
- [368] C. L. Cahu and J. L. Zambonino Infante. Maturation of the pancreatic and intestinal digestive functions in sea bass (*Dicentrarchus labrax*): effect of weaning with different protein sources. *Fish Physiology and Biochemistry*, 14(6):431–437, December 1995. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004343>.
- [369] A. Kiessling, L. Larsson, and S. S. S. Hung. Spawning induces a shift in energy metabolism from glucose to lipid in rainbow trout white muscle. *Fish Physiology and Biochemistry*, 14(6):439–448, December 1995. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004344>.

**Lin:1995:EEA**

- [370] Tsai-Chu Lin, Jia-Cheng Hsieh, and Cheng-I Lin. Electromechanical effects of acetylcholine on the atrial tissues of the cultured tilapia (*Oreochromis nilotica* × *O. aureus*). *Fish Physiology and Biochemistry*, 14(6):449–457, December 1995. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004345>.

**McLaughlin:1995:TCR**

- [371] Robert L. McLaughlin, Moira M. Ferguson, and David L. G. Noakes. Tissue concentrations of RNA and protein for juvenile brook trout (*Salvelinus fontinalis*): lagged responses to fluctuations in food availability. *Fish Physiology and Biochemistry*, 14(6):459–469, December 1995. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004346>.

**Senthilkumaran:1995:EMP**

- [372] B. Senthilkumaran and K. P. Joy. Effects of melatonin, p-chlorophenylalanine, and  $\alpha$ -methylparatyrosine on plasma gonadotropin level and ovarian activity in the catfish, *Heteropneustes fossilis*: A study correlating changes in hypothalamic monoamines. *Fish Physiology and Biochemistry*, 14(6):471–480, December 1995. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004347>.

**Chang:1995:EST**

- [373] Ching-Fong Chang, En-Lieng Lau, and Bih-Yun Lin. Estradiol- $17\beta$  suppresses testicular development and stimulates sex reversal in protandrous black porgy, *Acanthopagrus schlegeli*. *Fish Physiology and Biochemistry*, 14(6):481–488, December 1995. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004348>.

**King:1995:IGS**

- [374] William King V, David L. Berlinsky, and Craig V. Sullivan. Involvement of gonadal steroids in final oocyte maturation of white perch (*Morone americana*) and white bass (*M. chrysops*): *in vivo* and *in vitro* studies. *Fish Physiology and Biochemistry*, 14(6):489–500, December 1995. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004349>.

**Haider:1995:PMP**

- [375] S. Haider and K. Balamurugan. Presence of maturation-promoting factor in  $17\alpha$ ,  $20\beta$ -dihydroxy-4-pregnen-3-one-induced oocytes of catfish, *Clarias batrachus*. *Fish Physiology and Biochemistry*, 14(6):501–508, December 1995. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004350>.

**Byrne:1995:BCA**

- [376] P. J. Byrne, V. E. Ostland, and H. W. Ferguson. Blood chemistry and acid-base balance in rainbow trout *Oncorhynchus mykiss* with experimentally-induced acute bacterial gill disease. *Fish Physiology and Biochemistry*, 14 (6):509–518, December 1995. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004351>.

**Reid:1995:EHE**

- [377] Steve G. Reid and Steve F. Perry. The effects of hypoxia, *in vivo*, on red blood cell  $\beta$ -adrenoceptors in the rainbow trout, *Oncorhynchus mykiss*. *Fish Physiology and Biochemistry*, 14(6):519–524, December 1995. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004352>.

**Anonymous:1995:RAS**

- [378] Anonymous. Referees of articles submitted to the journal between October 1994 and October 1995. *Fish Physiology and Biochemistry*, 14(6): 525–528, December 1995. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004353>.

**Anonymous:1995:CVN**

- [379] Anonymous. Contents, vol. 14, nos. 1–6, 1995. *Fish Physiology and Biochemistry*, 14(6):529–531, December 1995. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004354>.

**Anonymous:1995:IA**

- [380] Anonymous. Index of authors. *Fish Physiology and Biochemistry*, 14 (6):533–534, December 1995. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004355>.

**Ciereszko:1996:ESD**

- [381] Andrzej Ciereszko, Li Liu, and Konrad Dabrowski. Effects of season and dietary ascorbic acid on some biochemical characteristics of rainbow trout (*Oncorhynchus mykiss*) semen. *Fish Physiology and Biochemistry*, 15(1):1–10, February 1996. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF01874832>.

**Chang:1996:CVI**

- [382] Ching-Fong Chang, En-Lieng Lau, and Shan-Ru Jeng. Characterization of vitellogenin induced by estradiol-17 $\beta$  in protandrous black gorgy, *Acanthopagrus schlegeli*. *Fish Physiology and Biochemistry*, 15 (1):11–19, February 1996. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF01874833>.

**Wiegand:1996:UYF**

- [383] Murray D. Wiegand. Utilization of yolk fatty acids by goldfish embryos and larvae. *Fish Physiology and Biochemistry*, 15(1):21–27, February 1996. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF01874834>.

**DCotta:1996:CBP**

- [384] Helena C. D'Cotta, Claudiane Gallais, and Patrick Prunet. Comparison between parr and smolt Atlantic salmon (*Salmo salar*)  $\alpha$  subunit gene expression of Na<sup>+</sup> /K<sup>+</sup>-ATPase in gill tissue. *Fish Physiology and Biochemistry*, 15(1):29–39, February 1996. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF01874835>.

**Linard:1996:THA**

- [385] Boris Linard, Sanae Bennani, and Christian Saligaut. Tyrosine hydroxylase activity and dopamine turnover of rainbow trout (*Oncorhynchus mykiss*) brain: the special status of the hypothalamus. *Fish Physiology and Biochemistry*, 15(1):41–48, February 1996. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF01874836>.

**Fauconneau:1996:EGH**

- [386] Benoit Fauconneau, Marie Paule Mady, and Pierre Yves LeBail. Effect of growth hormone on muscle protein synthesis in rainbow trout (*Oncorhynchus mykiss*) and Atlantic salmon (*Salmo salar*). *Fish Physiology*

*and Biochemistry*, 15(1):49–56, February 1996. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF01874837>.

**Huang:1996:ETG**

- [387] Liyue Huang, Jennifer L. Specker, and David A. Bengtson. Effect of triiodothyronine on the growth and survival of larval striped bass (*Morone saxatilis*). *Fish Physiology and Biochemistry*, 15(1):57–64, February 1996. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF01874838>.

**Fuentes:1996:DRJ**

- [388] Juan Fuentes, J. C. McGeer, and F. B. Eddy. Drinking rate in juvenile Atlantic salmon, *Salmo salar* L fry in response to a nitric oxide donor, sodium nitroprusside and an inhibitor of angiotensin converting enzyme, enalapril. *Fish Physiology and Biochemistry*, 15(1):65–69, February 1996. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF01874839>.

**Lin:1996:QQS**

- [389] Jen jen Lin, Shirley MacLeod, and Ching ming Kuo. Qualitative and quantitative strategies of thermal adaptation of grass carp (*Ctenopharyngodon idella*) cytoplasmic malate dehydrogenases. *Fish Physiology and Biochemistry*, 15(1):71–81, February 1996. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF01874840>.

**Gilmour:1996:EEA**

- [390] Kathleen M. Gilmour and Steve F. Perry. The effects of experimental anaemia on CO<sub>2</sub> excretion *in vitro* in rainbow trout, *Oncorhynchus mykiss*. *Fish Physiology and Biochemistry*, 15(1):83–94, February 1996. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF01874841>.

**Burka:1996:EMA**

- [391] John F. Burka, Heather A. Briand, and William P. Ireland. Effects of modulatory agents on neurally-mediated responses of trout intestinal smooth muscle *in vitro*. *Fish Physiology and Biochemistry*, 15(2):95–104, April 1996. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF01875589>.

**Kaczanowski:1996:DEA**

- [392] T. C. Kaczanowski and F. W. H. Beamish. Dietary essential amino acids and heat increment in rainbow trout (*Oncorhynchus mykiss*). *Fish Physiology and Biochemistry*, 15(2):105–120, April 1996. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF01875590>.

**Moyano:1996:CDE**

- [393] F. J. Moyano, M. Díaz, and M. C. Sarasquete. Characterization of digestive enzyme activity during larval development of gilthead seabream (*Sparus aurata*). *Fish Physiology and Biochemistry*, 15(2):121–130, April 1996. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF01875591>.

**Ng:1996:PUD**

- [394] Wing K. Ng, Silas S. O. Hung, and Mark A. Herold. Poor utilization of dietary free amino acids by white sturgeon. *Fish Physiology and Biochemistry*, 15(2):131–142, April 1996. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF01875592>.

**Yokoyama:1996:IIS**

- [395] Masahito Yokoyama and Jun ichi Nakazoe. Intraperitoneal injection of sulfur amino acids enhance the hepatic cysteine dioxygenase activity in rainbow trout (*Oncorhynchus mykiss*). *Fish Physiology and Biochemistry*, 15(2):143–148, April 1996. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF01875593>.

**Nagler:1996:GID**

- [396] J. J. Nagler, A. P. Scott, and J. P. Sumpter. Gonadotropins I and II do not stimulate the *in vitro* secretion of  $17\alpha$ ,  $20\beta$ -dihydroxy-4-pregnen-3-one 20-sulphate by rainbow trout gonads during final sexual maturation. *Fish Physiology and Biochemistry*, 15(2):149–156, April 1996. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF01875594>.

**Zhang:1996:CGH**

- [397] Yushi Zhang and Tracy A. Marchant. Characterization of growth hormone binding sites in the goldfish, *Carassius auratus*: effects of hypophysectomy and hormone injection. *Fish Physiology and Biochemistry*, 15(2):157–165, April 1996. CODEN FPBIEP. ISSN 0920-1742 (print),

- 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF01875595>.
- Lahnsteiner:1996:MSE**
- [398] F. Lahnsteiner, B. Berger, and R. A. Patzner. Motility of spermatozoa of *Alburnus alburnus* (Cyprinidae) and its relationship to seminal plasma composition and sperm metabolism. *Fish Physiology and Biochemistry*, 15(2):167–179, April 1996. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF01875596>.
- Grizzle:1996:PFJ**
- [399] John M. Grizzle and Keith A. Cummins. Potassium flux in juvenile striped bass (*Morone saxatilis*): influence of external concentrations of sodium chloride and calcium. *Fish Physiology and Biochemistry*, 15(2):181–186, April 1996. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF01875597>.
- Anonymous:1996:E**
- [400] Anonymous. Erratum. *Fish Physiology and Biochemistry*, 15(2):187, April 1996. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF01875598>.
- Walker:1996:DGS**
- [401] S. P. Walker, D. Keast, and S. McBride. Distribution of glutamine synthetase in the snapper (*Pagrus auratus*) and implications for the immune system. *Fish Physiology and Biochemistry*, 15(3):187–194, June 1996. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF01875569>.
- Hazel:1996:RMS**
- [402] Jeffrey R. Hazel. Role of molecular species catabolism in the temperature-induced restructuring of phosphatidylcholines in liver microsomes of thermally-acclimated rainbow trout (*Oncorhynchus mykiss*). *Fish Physiology and Biochemistry*, 15(3):195–204, June 1996. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF01875570>.
- Estevez:1996:CMM**
- [403] A. Estévez, A. Delgado, and M. J. Alejandre. Characterization of mevalonate metabolism in the sea bass (*Dicentrarchus labrax* L.) liver. *Fish*

*Physiology and Biochemistry*, 15(3):205–211, June 1996. CODEN FP-BIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF01875571>.

**Perna:1996:GMF**

- [404] Sonia Aparecida Perna and Marisa Narciso Fernandes. Gill morphometry of the facultative air-breathing loricariid fish, *Hypostomus plecostomus* (Walbaum) with, special emphasis on aquatic respiration. *Fish Physiology and Biochemistry*, 15(3):213–220, June 1996. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF01875572>.

**Mourente:1996:CCT**

- [405] Gabriel Mourente and Rosa Vázquez. Changes in the content of total lipid, lipid classes and their fatty acids of developing eggs and unfed larvae of the Senegal sole, *Solea senegalensis* Kaup. *Fish Physiology and Biochemistry*, 15(3):221–235, June 1996. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF01875573>.

**Peres:1996:ATR**

- [406] A. Péres, C. L. Cahu, and P. Quazuguel. Amylase and trypsin responses to intake of dietary carbohydrate and protein depend on the developmental stage in sea bass (*Dicentrarchus labrax*) larvae. *Fish Physiology and Biochemistry*, 15(3):237–242, June 1996. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF01875574>.

**Schulz:1996:TRG**

- [407] W. Schulz, Karlien Lubberink, and Henk J. Th. Goos. Testicular responsiveness to gonadotropic hormone *in vitro* and Leydig and Sertoli cell ultrastructure during pubertal development of male African catfish (*Clarias gariepinus*). *Fish Physiology and Biochemistry*, 15(3):243–254, June 1996. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF01875575>.

**Haider:1996:ICM**

- [408] S. Haider and K. Balamurugan. Identification and characterization of maturation-promoting factor from catfish, *Clarias batrachus*. *Fish Physiology and Biochemistry*, 15(3):255–263, June 1996. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF01875576>.

**Trombetti:1996:RRT**

- [409] Fabiana Trombetti, Vittoria Ventrella, and Anna Rosa Borgatti. Response of rainbow trout gill ( $\text{Na}^+ + \text{K}^+$ )-ATPase and chloride cells to  $\text{T}_3$  and  $\text{NaCl}$  administration. *Fish Physiology and Biochemistry*, 15(3):265–274, June 1996. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF01875577>.

**Bomgren:1996:BHR**

- [410] Peter Bomgren and Ann-Cathrine Jönsson. Basal  $\text{H}_2$ -receptor stimulated and pH-dependent acid secretion from an isolated stomach mucosa preparation of the cod, *Gadus morhua*, studied using a modified pH-static titration method. *Fish Physiology and Biochemistry*, 15(4):275–285, August 1996. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF02112354>.

**Bijvelds:1996:UDE**

- [411] Marcel J. C. Bijvelds, Gert Flik, and Sjoerd E. Wendelaar Bonga. Uptake, distribution and excretion of magnesium in *Oreochromis mossambicus*: dependence on magnesium in diet and water. *Fish Physiology and Biochemistry*, 15(4):287–298, August 1996. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF02112355>.

**Verbost:1996:EZC**

- [412] P. M. Verbost, M. A. Salah El-Deen, and S. E. Wendelaar Bonga. Effects of  $\text{zn}^{2+}$  on  $\text{ca}^{2+}$  uptake by mitochondria and endoplasmic reticulum in permeabilized tilapia gill cells. *Fish Physiology and Biochemistry*, 15(4):299–305, August 1996. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF02112356>.

**Tsai:1996:CPC**

- [413] Jong-Chang Tsai. Characterization of the pattern of cytokeratin proteins in the epidermal cells of loach, *Misgurnus anguillicaudatus* (Cypriniformes). *Fish Physiology and Biochemistry*, 15(4):307–316, August 1996. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF02112357>.

**Kvingedal:1996:TMR**

- [414] Ane Marit Kvingedal, Anette Dehli, and Kjell-Arne Rørvik. Transferrin mRNA in relation to liver iron storage in farmed Atlantic salmon *Salmo salar*. *Fish Physiology and Biochemistry*, 15(4):317–322, August 1996.

- CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF02112358>.
- [415] Malin Celander, Donald R. Buhler, and John J. Stegeman. Immunochemical relationships of cytochrome P4503A-like proteins in teleost fish. *Fish Physiology and Biochemistry*, 15(4):323–332, August 1996. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF02112359>.
- [Celander:1996:IRC]
- [416] Kozo Inaba, Masaharu Seno, and Hisaya Morino. Expression patterns of acidic and basic fibroblast growth factor in loach fish embryos. *Fish Physiology and Biochemistry*, 15(4):333–338, August 1996. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF02112360>.
- [Inaba:1996:EPA]
- [417] A. H. Houston, N. Dobric, and R. Kahurananga. The nature of hematological response in fish. *Fish Physiology and Biochemistry*, 15(4):339–347, August 1996. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF02112361>.
- [Houston:1996:NHR]
- [418] Diana M. E. Otto and Thomas W. Moon. Endogenous antioxidant systems of two teleost fish, the rainbow trout and the black bullhead, and the effect of age. *Fish Physiology and Biochemistry*, 15(4):349–358, August 1996. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF02112362>.
- [Otto:1996:EAS]
- [419] Edward Pfeiler. Energetics of metamorphosis in bonefish (*Albula* sp.) leptocephali: Role of keratan sulfate glycosaminoglycan. *Fish Physiology and Biochemistry*, 15(4):359–362, August 1996. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF02112363>.
- [Pfeiler:1996:EMB]
- [420] Pung-Pung Hwang, Yu-Chi Tung, and Min-Hwang Chang. Effect of environmental calcium levels on calcium uptake in tilapia larvae *Oreochromis mossambicus*. *Fish Physiology and Biochemistry*, 15(5):363–370, November 1996. CODEN FPBIEP. ISSN 0920-1742 (print),
- [Hwang:1996:EEC]

- 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF01875578>.
- Holk:1996:EIS**
- [421] Karin Holk. Effects of isotonic swelling on the intracellular Bohr factor and the oxygen affinity of trout and carp blood. *Fish Physiology and Biochemistry*, 15(5):371–375, November 1996. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF01875579>.
- Stillwell:1996:HLM**
- [422] Evelyn J. Stillwell and Tillmann J. Benfey. Hemoglobin level, metabolic rate, opercular abduction rate and swimming efficiency in female triploid brook trout (*Salvelinus fontinalis*). *Fish Physiology and Biochemistry*, 15(5):377–383, November 1996. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF01875580>.
- Morgan:1996:CIC**
- [423] John D. Morgan and George K. Iwama. Cortisol-induced changes in oxygen consumption and ionic regulation in coastal cutthroat trout (*Oncorhynchus clarki clarki*) parr. *Fish Physiology and Biochemistry*, 15(5):385–394, November 1996. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF01875581>.
- Einarsdottir:1996:SRA**
- [424] Ingiborg E. Einarsdóttir and Kjell J. Nilssen. Stress responses of Atlantic salmon (*Salmo salar* L.) elicited by water level reduction in rearing tanks. *Fish Physiology and Biochemistry*, 15(5):395–400, November 1996. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF01875582>.
- Falcon:1996:ARC**
- [425] Jack Falcón, Miguel Molina-Borja, and Sol Oaknin. Age-related changes in 2-[<sup>125</sup>I]-iodomelatonin binding sites in the brain of sea breams (*Sparus aurata*, L.). *Fish Physiology and Biochemistry*, 15(5):401–411, November 1996. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF01875583>.
- Molina-Borja:1996:PMG**
- [426] Miguel Molina-Borja, Jack Falcón, and J.-P. Ravault. Production of melatonin by the gilthead sea bream pineal: an *in vivo* and *in vitro* study. *Fish*

*Physiology and Biochemistry*, 15(5):413–419, November 1996. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF01875584>.

**McCord:1996:CME**

- [427] Anne McCord, Nicola Dunlop, and John A. Craft. Characterization of the microsomal epoxide hydrolase of hepatic microsomes of the common dab, *Limanda limanda*. *Fish Physiology and Biochemistry*, 15(5): 421–430, November 1996. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF01875585>.

**Moreau:1996:AAS**

- [428] Régis Moreau, Sadasivam J. Kaushik, and Konrad Dabrowski. Ascorbic acid status as affected by dietary treatment in the Siberian sturgeon (*Acipenser baeri* Brandt): tissue concentration, mobilisation and L-gulonolactone oxidase activity. *Fish Physiology and Biochemistry*, 15 (5):431–438, November 1996. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF01875586>.

**Einarsson:1996:EFS**

- [429] Sigfús Einarsson, P. Spencer Davies, and Clive Talbot. The effect of feeding on the secretion of pepsin, trypsin and chymotrypsin in the Atlantic salmon, *Salmo salar* L. *Fish Physiology and Biochemistry*, 15(5): 439–446, November 1996. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF01875587>.

**Carneiro:1996:LSS**

- [430] Nancy M. Carneiro, Carmen D. Eilertson, and Mark A. Sheridan. Lipid-stimulated somatostatin secretion in rainbow trout, *Oncorhynchus mykiss*. *Fish Physiology and Biochemistry*, 15(5):447–452, November 1996. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF01875588>.

**Mathiyalagan:1996:ECG**

- [431] A. Mathiyalagan, P. K. Reddy, and T. J. Lam. Effects of cortisol on growth and development in tilapia larvae, *Oreochromis mossambicus*. *Fish Physiology and Biochemistry*, 15(6):453–458, December 1996. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF01874919>.

**Jakobsson:1996:SBK**

- [432] Staffan Jakobsson, Ian Mayer, and Bertil Borg. Specific binding of 11-ketotestosterone in an androgen target organ, the kidney of the male three-spined stickleback, *Gasterosteus aculeatus*. *Fish Physiology and Biochemistry*, 15(6):459–467, December 1996. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF01874920>.

**Ando:1996:ULP**

- [433] Seiichi Ando and Masao Matsuzaki. A unique lipoprotein profile found in the plasma of cultured Japanese eel *Anguilla japonica*: very low density lipoprotein, but not high density lipoprotein, is the main component of plasma. *Fish Physiology and Biochemistry*, 15(6):469–479, December 1996. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF01874921>.

**Houston:1996:HRF**

- [434] A. H. Houston, W. C. Roberts, and J. A. Kennington. Hematological response in fish: pronephric and splenic involvements in the goldfish, *Carassius auratus* L. *Fish Physiology and Biochemistry*, 15(6):481–489, December 1996. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF01874922>.

**Soengas:1996:FDR**

- [435] J. L. Soengas, E. F. Strong, and M. D. Andrés. Food deprivation and refeeding in Atlantic salmon, *Salmo salar*: effects on brain and liver carbohydrate and ketone bodies metabolism. *Fish Physiology and Biochemistry*, 15(6):491–511, December 1996. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF01874923>.

**Lee:1996:MRC**

- [436] Tsung-Han Lee, Pung-Pung Hwang, and Fore-Lien Huang. Mitochondria-rich cells in the branchial epithelium of the teleost, *Oreochromis mossambicus*, acclimated to various hypotonic environments. *Fish Physiology and Biochemistry*, 15(6):513–523, December 1996. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF01874924>.

**Gutierrez:1996:JPM**

- [437] Joaquim Gutiérrez and Jesús Palomeque. José planas mestres (1926–1995). *Fish Physiology and Biochemistry*, 15(6):525–526, December 1996.

- CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF01874925>.
- Anonymous:1996:RAS**
- [438] Anonymous. Referees of articles submitted to the journal between October 1995 and October 1996. *Fish Physiology and Biochemistry*, 15(6): 527–530, December 1996. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF01874926>.
- Knudsen:1997:RNI**
- [439] P. K. Knudsen and F. B. Jensen. Recovery from nitrite-induced methaemoglobinaemia and potassium balance disturbances in carp. *Fish Physiology and Biochemistry*, 16(1):1–10, January 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004535>.
- Schutz:1997:YMC**
- [440] M. Schütz and G. W. Barlow. Young of the Midas cichlid get biologically active nonnutrients by eating mucus from the surface of their parents. *Fish Physiology and Biochemistry*, 16(1):11–18, January 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004536>.
- Poli:1997:BPC**
- [441] A. Poli, B. Pavan, and R. Rossi. Biochemical and pharmacological characterization of adenosine A1 receptors in eel (*Anguilla anguilla*) brain. *Fish Physiology and Biochemistry*, 16(1):19–27, January 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004537>.
- Brett:1997:ENE**
- [442] S. E. Brett and J. F. Leatherland. Epinephrine and norepinephrine elevate 5'-monodeiodinase activity in rainbow trout liver slices. *Fish Physiology and Biochemistry*, 16(1):29–34, January 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004538>.
- Pavlick:1997:DIG**
- [443] R. J. Pavlick, Jr. and G. P. Moberg. Dopaminergic influence on gonadotropin secretion in white sturgeon (*Acipenser transmontanus*). *Fish*

*Physiology and Biochemistry*, 16(1):35–43, January 1997. CODEN FP-BIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004539>.

Pottinger:1997:CPS

- [444] T. G. Pottinger and A. Moore. Characterization of putative steroid receptors in the membrane, cytosol and nuclear fractions from the olfactory tissue of brown and rainbow trout. *Fish Physiology and Biochemistry*, 16(1):45–63, January 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004540>.

Hobby:1997:RBP

- [445] A. C. Hobby and N. W. Pankhurst. The relationship between plasma and ovarian levels of gonadal steroids in the repeat spawning marine fishes *Pagrus auratus* (Sparidae) and *Chromis dispilus* (Pomacentridae). *Fish Physiology and Biochemistry*, 16(1):65–75, January 1997. CODEN FP-BIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004541>.

Wang:1997:SCB

- [446] Z. Wang and L. W. Crim. Seasonal changes in the biochemistry of seminal plasma and sperm motility in the ocean pout, *Macrozoarces americanus*. *Fish Physiology and Biochemistry*, 16(1):77–83, January 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004542>.

Janvier:1997:MSI

- [447] J.-J. Janvier. Mediation of serotonin-induced branchial vasoconstriction by a cholinergic and muscarinic response *in vivo* in European eel *Anguilla anguilla*. *Fish Physiology and Biochemistry*, 16(1):85–92, January 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004543>.

Garcia-Rejon:1997:FBA

- [448] L. Garcia-Rejón, M. J. Sanchez-Muros, and M. de la Higuera. Fructose 1,6 bisphosphatase activity in liver and gonads of sea bass (*Dicentrarchus labrax*). Influence of diet composition and stage of the reproductive cycle. *Fish Physiology and Biochemistry*, 16(2):93–105, March 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004667>.

**Peyon:1997:IPR**

- [449] P. Peyon, S. Baloche, and E. Burzawa-Gérard. Investigation into the possible role of androgens in the induction of hepatic vitellogenesis in the European eel: *in vivo* and *in vitro* studies. *Fish Physiology and Biochemistry*, 16(2):107–118, March 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004668>.

**Milligan:1997:RCA**

- [450] C. L. Milligan. The role of cortisol in amino acid mobilization and metabolism following exhaustive exercise in rainbow trout (*Oncorhynchus mykiss* Walbaum). *Fish Physiology and Biochemistry*, 16 (2):119–128, March 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004669>.

**Cavaco:1997:PDM**

- [451] J. E. B. Cavaco, J. G. D. Lambert, and H. J. Th. Goos. Pubertal development of male African catfish, *Clarias gariepinus*. *In vitro* steroidogenesis by testis and interrenal tissue and plasma levels of sexual steroids. *Fish Physiology and Biochemistry*, 16(2):129–138, March 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004670>.

**Thibault:1997:SVM**

- [452] M. Thibault, P. U. Blier, and H. Guderley. Seasonal variation of muscle metabolic organization in rainbow trout (*Oncorhynchus mykiss*). *Fish Physiology and Biochemistry*, 16(2):139–155, March 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004671>.

**Larsen:1997:IIC**

- [453] B. K. Larsen and F. B. Jensen. Influence of ionic composition on acid-base regulation in rainbow trout (*Oncorhynchus mykiss*) exposed to environmental hypercapnia. *Fish Physiology and Biochemistry*, 16 (2):157–170, March 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1007/BF00004672>.

**Chen:1997:DRT**

- [454] K. M. Chen, W. K. Chan, and A. D. Munro. Dexamethasone receptors and their distribution in the brain of the red tilapia. *Fish Physiology and*

*Biochemistry*, 16(3):171–179, May 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007733706311>.

**Reis-Henriques:1997:MEV**

- [455] M. A. Reis-Henriques, M. M. Cruz, and J. O. Pereira. The modulating effect of vitellogenin on the synthesis of  $17\beta$ -estradiol by rainbow trout (*Oncorhynchus mykiss*) ovary. *Fish Physiology and Biochemistry*, 16(3):181–186, May 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007784626784>.

**Chiba:1997:DDL**

- [456] H. Chiba, T. Miura, and K. Yamauchi. Differentiation and development of Leydig cell, and induction of spermatogenesis during testicular differentiation in the Japanese eel, *Anguilla japonica*. *Fish Physiology and Biochemistry*, 16(3):187–195, May 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007753115397>.

**Khan:1997:ECM**

- [457] M. N. Khan, P. K. Reddy, and J. F. Leatherland. Effect of cortisol on the metabolism of 17-hydroxyprogesterone by Arctic charr and rainbow trout embryos. *Fish Physiology and Biochemistry*, 16(3):197–209, May 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007725832235>.

**Mananos:1997:PMR**

- [458] E. L. Mañanós, S. Zanuy, and M. Carrillo. Photoperiodic manipulations of the reproductive cycle of sea bass (*Dicentrarchus labrax*) and their effects on gonadal development, and plasma  $17\beta$ -estradiol and vitellogenin levels. *Fish Physiology and Biochemistry*, 16(3):211–222, May 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007777816306>.

**Andersen:1997:AWI**

- [459] Ø. Andersen. Accumulation of waterborne iron and expression of ferritin and transferrin in early developmental stages of brown trout (*Salmo trutta*). *Fish Physiology and Biochemistry*, 16(3):223–231, May 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007729900376>.

**Underhay:1997:EPC**

- [460] J. R. Underhay and J. F. Burka. Effects of pH on contractility of rainbow trout (*Oncorhynchus mykiss*) intestinal muscle *in vitro*. *Fish Physiology and Biochemistry*, 16(3):233–246, May 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007781917214>.

**Wells:1997:BOT**

- [461] R. M. G. Wells, J. Baldwin, and R. E. Weber. Blood oxygen transport and hemoglobin function in three tropical fish species from northern Australian freshwater billabongs. *Fish Physiology and Biochemistry*, 16(3):247–258, May 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007734001284>.

**Geurden:1997:EDP**

- [462] I. Geurden, P. Coutteau, and P. Sorgeloos. Effect of a dietary phospholipid supplementation on growth and fatty acid composition of European sea bass (*Dicentrarchus labrax* L.) and turbot (*Scophthalmus maximus* L.) juveniles from weaning onwards. *Fish Physiology and Biochemistry*, 16(4):259–272, July 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007785128042>.

**Luizi:1997:PLE**

- [463] F. Luizi, B. Korsgaard, and I. M. Petersen. Plasma lipoproteins in European eels (*Anguilla anguilla*): effects of estradiol. *Fish Physiology and Biochemistry*, 16(4):273–280, July 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007746912113>.

**Kao:1997:DTL**

- [464] Yung hsi Kao, John H. Youson, and Mark A. Sheridan. Differences in the total lipid and lipid class composition of larvae and metamorphosing sea lampreys, *Petromyzon marinus*. *Fish Physiology and Biochemistry*, 16(4):281–290, July 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007799028951>.

**Conceicao:1997:FGP**

- [465] L. E. C. Conceição, D. F. Houlihan, and J. A. J. Verreth. Fast growth, protein turnover and costs of protein metabolism in yolk-sac larvae of the African catfish (*Clarias gariepinus*). *Fish Physiology and Biochemistry*,

16(4):291–302, July 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007751130768>.

**Navarro:1997:EFF**

- [466] I. Navarro, J. Blasco, and J. Gutiérrez. Effects of fasting and feeding on plasma amino acid levels in brown trout. *Fish Physiology and Biochemistry*, 16(4):303–309, July 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007759316656>.

**Terjesen:1997:UAE**

- [467] B. F. Terjesen, J. Verreth, and H. J. Fyhn. Urea and ammonia excretion by embryos and larvae of the African catfish *Clarias gariepinus* (Burchell 1822). *Fish Physiology and Biochemistry*, 16(4):311–321, July 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007719618473>.

**Bijvelds:1997:MBE**

- [468] M. J. C. Bijvelds, G. Flik, and S. E. Wendelaar Bonga. Mineral balance in *Oreochromis mossambicus*: dependence on magnesium in diet and water. *Fish Physiology and Biochemistry*, 16(4):323–331, July 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007727819382>.

**Cordiner:1997:EST**

- [469] S. Cordiner and S. Egginton. Effects of seasonal temperature acclimatization on muscle metabolism in rainbow trout, *Oncorhynchus mykiss*. *Fish Physiology and Biochemistry*, 16(4):333–343, July 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007732003452>.

**Bukovskaya:1997:LVS**

- [470] O. Bukovskaya, J. G. D. Lambert, and D. E. Kime. *In vitro* steroidogenesis by gonads of the Russian sturgeon, *Acipenser gueldenstaedti* Brandt. *Fish Physiology and Biochemistry*, 16(4):345–353, July 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007784020290>.

**Aho:1997:SAA**

- [471] E. Aho and M. Vornamen. Seasonality of ATPase activities in crucian carp (*Carassius carassius* L.) heart. *Fish Physiology and Biochemistry*, 16(5):355–364, October 1997. CODEN FPBIEP. ISSN 0920-1742 (print),

1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007727024877>.

**McKenzie:1997:OCV**

- [472] D. J. McKenzie, G. Piraccini, and E. W. Taylor. Oxygen consumption and ventilatory reflex responses are influenced by dietary lipids in sturgeon. *Fish Physiology and Biochemistry*, 16(5):365–379, October 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007702908947>.

**Desvilettes:1997:CLC**

- [473] C. Desvilettes, G. Bourdier, and J. C. Breton. Changes in lipid class and fatty acid composition during development in pike (*Esox lucius* L.) eggs and larvae. *Fish Physiology and Biochemistry*, 16(5):381–393, October 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007764130651>.

**Ricci:1997:MHA**

- [474] R. Ricci, P. De Vito, and S. Incerpi. Modulation of Na/H antiport in erythrocytes of the teleost fish, *Oreochromis mossambicus*: effect of vasoressin. *Fish Physiology and Biochemistry*, 16(5):395–401, October 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007754925785>.

**Hwang:1997:MCU**

- [475] P. P. Hwang and C. H. Yang. Modulation of calcium uptake in cadmium-pretreated tilapia (*Oreochromis mossambicus*) larvae. *Fish Physiology and Biochemistry*, 16(5):403–410, October 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007707009855>.

**Holloway:1997:IRS**

- [476] A. C. Holloway and J. F. Leatherland. The influence of reproductive status on the stimulatory action of N-methyl-D,L-aspartate on growth hormone secretion, in vitro in rainbow trout, *Oncorhynchus mykiss*. *Fish Physiology and Biochemistry*, 16(5):411–418, October 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007716215630>.

**Bornestaf:1997:EAI**

- [477] C. Bornestaf, E. Antonopoulou, and B. Borg. Effects of aromatase inhibitors on reproduction in male three-spined sticklebacks, *Gasterosteus*

*aculeatus*, exposed to long and short photoperiods. *Fish Physiology and Biochemistry*, 16(5):419–423, October 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007776517447>.

Ravaglia:1997:CMV

- [478] M. A. Ravaglia, F. L. Lo Nstro, and G. M. Somoza. Characterization of molecular variants of GnRH, induction of spermatiation and sex reversal using salmon GnRH-a and domperidone in the protogynous diandric fish, *Synbranchus marmoratus* Bloch, (Teleostei, Synbranchidae). *Fish Physiology and Biochemistry*, 16(5):425–436, October 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007772416539>.

Seubert:1997:TBJ

- [479] J. M. Seubert and C. J. Kennedy. The toxicokinetics of benzo[a]pyrene in juvenile Coho salmon, *Oncorhynchus kisutch*, during smoltification. *Fish Physiology and Biochemistry*, 16(5):437–447, October 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007704213813>.

Otto:1997:REG

- [480] D. M. E. Otto, C. K. Sen, and T. W. Moon. Role of exogenous glutathione in teleost fish and its effects on antioxidant defense responses in rainbow trout exposed to 3,3',4,4'-tetrachlorobiphenyl. *Fish Physiology and Biochemistry*, 16(6):449–457, November 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007765609695>.

Chang:1997:ECK

- [481] M.-H. Chang, H.-C. Lin, and P. P. Hwang. Effects of cadmium on the kinetics of calcium uptake in developing tilapia larvae, *Oreochromis mossambicus*. *Fish Physiology and Biochemistry*, 16(6):459–470, November 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007780602426>.

Aranishi:1997:EPJ

- [482] F. Aranishi and M. Nakane. Epidermal proteases of the Japanese eel. *Fish Physiology and Biochemistry*, 16(6):471–478, November 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007736804243>.

**Peres:1997:DSS**

- [483] A. Péres, C. L. Cahu, and J. L. Zambonino Infante. Dietary spermine supplementation induces intestinal maturation in sea bass (*Dicentrarchus labrax*) larvae. *Fish Physiology and Biochemistry*, 16(6):479–485, November 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007786128254>.

**Iijima:1997:PCP**

- [484] N. Iijima, S. Chosa, and M. Kayama. Purification and characterization of phospholipase A<sub>2</sub> from the pyloric caeca of red sea bream, *Pagrus major*. *Fish Physiology and Biochemistry*, 16(6):487–498, November 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007745021990>.

**Ghioni:1997:ECM**

- [485] C. Ghioni, D. R. Tocher, and J. R. Sargent. The effect of culture on morphology, lipid and fatty acid composition, and polyunsaturated fatty acid metabolism of rainbow trout (*Oncorhynchus mykiss*) skin cells. *Fish Physiology and Biochemistry*, 16(6):499–513, November 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007709508786>.

**Ferenczy:1997:CAM**

- [486] J. Ferenczy, T. Szegletes, and J. Nemcsók. Characterization of acetylcholinesterase and its molecular forms in organs of five freshwater teleosts. *Fish Physiology and Biochemistry*, 16(6):515–529, November 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007701323808>.

**Guderley:1997:PPM**

- [487] H. Guderley, J. St. Pierre, and A. J. Hulbert. Plasticity of the properties of mitochondria from rainbow trout red muscle with seasonal acclimatization. *Fish Physiology and Biochemistry*, 16(6):531–541, November 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007708826437>.

**Kobayashi:1997:GRH**

- [488] M. Kobayashi, M. Amano, and K. Aida. Gonadotropin-releasing hormone and gonadotropin in goldfish and masu salmon. *Fish Physiology and Biochemistry*, 17(1-6):1–8, December 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007764430746>.

**Bjornsson:1997:BSG**

- [489] B. Th. Björnsson. The biology of salmon growth hormone: from daylight to dominance. *Fish Physiology and Biochemistry*, 17(1-6):9–24, December 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007712413908>.

**Sumpter:1997:ECF**

- [490] J. P. Sumpter. Environmental control of fish reproduction: a different perspective. *Fish Physiology and Biochemistry*, 17(1-6):25–31, December 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007782305962>.

**Goetz:1997:ORO**

- [491] F. W. Goetz and M. Garczynski. The ovarian regulation of ovulation in teleost fish. *Fish Physiology and Biochemistry*, 17(1-6):33–38, December 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007765902327>.

**Naito:1997:DAA**

- [492] N. Naito, Y. Koide, and Y. Nakai. Distinct alpha ( $\alpha$ )-subunits of salmon glycoprotein hormones: production sites in the pituitary with sexual maturity. *Fish Physiology and Biochemistry*, 17(1-6):39–44, December 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007713918257>.

**Goos:1997:GRH**

- [493] H. J. Th. Goos, P. T. Bosma, and R. W. Schulz. Gonadotropin-releasing hormones in the African catfish: molecular forms, localization, potency and receptors. *Fish Physiology and Biochemistry*, 17(1-6):45–51, December 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007734422800>.

**Kah:1997:ERB**

- [494] O. Kah, I. Anglade, and P. Jégo. Estrogen receptors in the brain-pituitary complex and the neuroendocrine regulation of gonadotropin release in rainbow trout. *Fish Physiology and Biochemistry*, 17(1-6):53–62, December 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007749715473>.

**Amano:1997:MSG**

- [495] M. Amano, K. Ikuta, and K. Aida. The maturation of the salmon GnRH system and its regulation by gonadal steroids in masu salmon. *Fish Physiology and Biochemistry*, 17(1-6):63–70, December 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007797631403>.

**Okuzawa:1997:DEG**

- [496] K. Okuzawa, J. Granneman, and H. Kagawa. Distinct expression of GnRH genes in the red seabream brain. *Fish Physiology and Biochemistry*, 17(1-6):71–79, December 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007760329837>.

**Parhar:1997:RFM**

- [497] I. S. Parhar and Y. Sakuma. Regulation of forebrain and midbrain GnRH neurons in juvenile teleosts. *Fish Physiology and Biochemistry*, 17(1-6):81–84, December 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007770020983>.

**Rosenfeld:1997:GBS**

- [498] H. Rosenfeld, B. Levavi-Sivan, and A. Elizur. The GTH  $\beta$  subunits of tilapia: gene cloning and expression. *Fish Physiology and Biochemistry*, 17(1-6):85–92, December 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007778221892>.

**Melamed:1997:MLG**

- [499] P. Melamed, G. Gur, and Z. Yaron. The mRNA levels of GtH I $\beta$ , GtH II $\beta$  and GH in relation to testicular development and testosterone treatment in pituitary cells of male tilapia. *Fish Physiology and Biochemistry*, 17(1-6):93–98, December 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007737414565>.

**Rebers:1997:MGH**

- [500] F. E. M. Rebers, C. P. Tensen, and J. Bogerd. Modulation of glycoprotein hormone  $\alpha$ - and gonadotropin II $\beta$ -subunit mRNA levels in the pituitary gland of mature male African catfish, *Clarias gariepinus*. *Fish Physiology and Biochemistry*, 17(1-6):99–108, December 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007725321061>.

**Thomas:1997:BCR**

- [501] P. Thomas, D. Breckenridge-Miller, and C. Detweiler. Binding characteristics and regulation of the 17,20 $\beta$ , 21-trihydroxy-4-pregnen-3-one (20 $\beta$ -s) receptor on testicular and sperm plasma membranes of spotted seatrout (*Cynoscion nebulosus*). *Fish Physiology and Biochemistry*, 17(1-6):109–116, December 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007781128677>.

**Kime:1997:SDP**

- [502] D. E. Kime and M. Ebrahimi. Synthesis of 17,20 $\alpha$ - and 17,20 $\beta$ -dihydroxy-4-pregnen-3-ones, 11-ketotestosterone and their conjugates by gills of teleost fish. *Fish Physiology and Biochemistry*, 17(1-6):117–121, December 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:100777010930>.

**Pakdel:1997:RGE**

- [503] F. Pakdel, F. Delaunay, and Y. Valotaire. Regulation of gene expression and biological activity of rainbow trout estrogen receptor. *Fish Physiology and Biochemistry*, 17(1-6):123–133, December 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007706207857>.

**Murata:1997:IEG**

- [504] K. Murata, K. Yamamoto, and K. Yamagami. Intrahepatic expression of genes encoding choriogenins: precursor proteins of the egg envelope of fish, the medaka, *oryzias latipes*. *Fish Physiology and Biochemistry*, 17(1-6):135–142, December 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007702106948>.

**Ge:1997:ARG**

- [505] W. Ge, W. Ge, and Y. Nagahama. Activin and its receptors in the goldfish. *Fish Physiology and Biochemistry*, 17(1-6):143–153, December 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007718019166>.

**Cavaco:1997:MBP**

- [506] J. E. B. Cavaco, H. F. Vischer, and R. W. Schulz. Mismatch between patterns of circulating and testicular androgens in African catfish, *Clarias gariepinus*. *Fish Physiology and Biochemistry*, 17(1-6):155–162, December 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168

(electronic). URL <https://link.springer.com/article/10.1023/A:1007716514816>.

Ohta:1997:AIM

- [507] H. Ohta, H. Kagawa, and K. Hirose. Artificial induction of maturation and fertilization in the Japanese eel, *Anguilla japonica*. *Fish Physiology and Biochemistry*, 17(1-6):163–169, December 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007720600588>.

Sato:1997:DEP

- [508] N. Sato, I. Kawazoe, and K. Aida. Development of an emulsion prepared with lipophilized gelatin and its application for hormone administration in the Japanese eel *Anguilla japonica*. *Fish Physiology and Biochemistry*, 17 (1-6):171–178, December 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007704128929>.

Nagae:1997:CTP

- [509] M. Nagae, S. Adachi, and K. Yamauchi. Changes in transcription of pituitary glycoprotein hormone  $\alpha$  and gonadotropin  $\text{II}\beta$  subunits during ovarian development induced by repeated injections of salmon pituitary homogenate in the Japanese eel, *Anguilla japonica*. *Fish Physiology and Biochemistry*, 17(1-6):179–186, December 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007708312999>.

Yueh:1997:TPO

- [510] W. S. Yueh and C. F. Chang.  $17\alpha$ ,  $20\beta$ , 21-trihydroxy-4-pregnen-3-one and  $17\alpha$ ,  $20\beta$ -dihydroxy-4-pregnen-3-one stimulated spermiation in protandrous black porgy, *Acanthopagrus schlegeli*. *Fish Physiology and Biochemistry*, 17(1-6):187–193, December 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007774628330>.

Dulka:1997:AIN

- [511] J. G. Dulka. Androgen-induced neural plasticity and the regulation of electric-social behavior in the brown ghost knifefish: current status and future directions. *Fish Physiology and Biochemistry*, 17(1-6):195–202, December 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007778815126>.

**Waring:1997:SEC**

- [512] C. P. Waring and A. Moore. Sublethal effects of a carbamate pesticide on pheromonal mediated endocrine function in mature male Atlantic salmon (*Salmo salar* L.) parr. *Fish Physiology and Biochemistry*, 17(1-6):203–211, December 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007747316943>.

**Chow:1997:GVI**

- [513] B. K.-C. Chow. The goldfish vasoactive intestinal polypeptide receptor: functional studies and tissue distribution. *Fish Physiology and Biochemistry*, 17(1-6):213–222, December 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007758224695>.

**Yuen:1997:MCC**

- [514] T. T. H. Yuen, P. Y. Mok, and B. K. C. Chow. Molecular cloning of a cDNA encoding proglucagon from goldfish, *Carassius auratus*. *Fish Physiology and Biochemistry*, 17(1-6):223–230, December 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007793705131>.

**Dickhoff:1997:RGE**

- [515] W. W. Dickhoff, B. R. Beckman, and S. Moriyama. The role of growth in endocrine regulation of salmon smoltification. *Fish Physiology and Biochemistry*, 17(1-6):231–236, December 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007710308765>.

**Farchi-Pisanty:1997:TRF**

- [516] O. Farchi-Pisanty, H. Sternberg, and B. Moav. Transcriptional regulation of fish growth hormone gene. *Fish Physiology and Biochemistry*, 17(1-6):237–246, December 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007762325604>.

**Funkenstein:1997:OSM**

- [517] B. Funkenstein, H. Kawauchi, and B. Cavari. Ontogeny of somatolactin mRNA in the gilthead sea bream *Sparus aurata*. *Fish Physiology and Biochemistry*, 17(1-6):247–252, December 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007714409674>.

**Moriyama:1997:CPI**

- [518] S. Moriyama, H. Shimma, and H. Kagawa. Changes in plasma insulin-like growth factor-i levels in the precociously maturing amago salmon, *Oncorhynchus masou ishikawai*. *Fish Physiology and Biochemistry*, 17(1-6):253–259, December 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007725010022>.

**Olivereau:1997:LTS**

- [519] M. Olivereau and J. M. Olivereau. Long-term starvation in the European eel: general effects and responses of pituitary growth hormone-(GH) and somatolactin-(SL) secreting cells. *Fish Physiology and Biochemistry*, 17(1-6):261–269, December 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007766426512>.

**Zhu:1997:SPS**

- [520] Y. Zhu and P. Thomas. Studies on the physiology of somatolactin secretion in red drum and Atlantic croaker. *Fish Physiology and Biochemistry*, 17(1-6):271–278, December 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007718510583>.

**Shepherd:1997:ESD**

- [521] B. S. Shepherd, B. Ron, and E. G. Grau. Effects of salinity, dietary level of protein and 17 $\alpha$ -methyltestosterone on growth hormone (GH) and prolactin (tPRL<sub>177</sub> and tPRL<sub>188</sub>) levels in the tilapia, *Oreochromis mossambicus*. *Fish Physiology and Biochemistry*, 17(1-6):279–288, December 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007770511491>.

**Ogawa:1997:ESP**

- [522] M. Ogawa, T. Sugai, and T. Watanuki. Effects of salmon prolactin and growth hormone on plasma osmolality, Na<sup>+</sup> concentration and protein content in the saffron cod. *Fish Physiology and Biochemistry*, 17(1-6):289–293, December 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007797906040>.

**Xu:1997:OAG**

- [523] B. Xu, H. Miao, and D. Li. Osmoregulatory actions of growth hormone in juvenile tilapia (*Oreochromis niloticus*). *Fish Physiology and Biochem-*

- istry*, 17(1-6):295–301, December 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007750022878>.
- Madsen:1997:EEN**
- [524] S. S. Madsen, A. B. Mathiesen, and B. Korsgaard. Effects of  $17\beta$ -estradiol and 4-nonylphenol on smoltification and vitellogenesis in Atlantic salmon (*Salmo salar*). *Fish Physiology and Biochemistry*, 17(1-6):303–312, December 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007754123787>.
- Warne:1997:VAN**
- [525] J. M. Warne and R. J. Balment. Vascular actions of neurohypophysial peptides in the flounder. *Fish Physiology and Biochemistry*, 17(1-6):313–318, December 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007745821969>.
- Loretz:1997:NPI**
- [526] C. A. Loretz, C. A. Loretz, and Y. Takei. Natriuretic peptide inhibition of intestinal salt absorption in the Japanese eel: physiological significance. *Fish Physiology and Biochemistry*, 17(1-6):319–324, December 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007772925951>.
- Acher:1997:MEN**
- [527] R. Acher, J. Chauvet, and Y. Rouillé. Molecular evolution of neurohypophysial hormones in relation to osmoregulation: the two fish options. *Fish Physiology and Biochemistry*, 17(1-6):325–332, December 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007720909113>.
- Tierney:1997:IBR**
- [528] M. L. Tierney, K. Hamano, and N. Hazon. Interactions between the renin-angiotensin system and catecholamines on the cardiovascular system of elasmobranchs. *Fish Physiology and Biochemistry*, 17(1-6):333–337, December 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007795200105>.
- Brown:1997:AAV**
- [529] J. A. Brown and S. Amer. Antidiuretic action of vasoactive endothelins in the in situ perfused rainbow trout kidney. *Fish Physiology and*

*Biochemistry*, 17(1-6):339–345, December 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007791116034>.

**Schoenmakers:1997:CCE**

- [530] Th.J. M. Schoenmakers, G. Flik, and S. E. Wendelaar Bonga. Calcium currents and exocytosis in single isolated pars intermedia cells from tilapia (*Oreochromis mossambicus*). *Fish Physiology and Biochemistry*, 17(1-6):347–355, December 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007726712400>.

**Harding:1997:PPA**

- [531] K. E. Harding, J. M. Warne, and R. J. Balment. Pituitary and plasma AVT content in the flounder (*Platichthys flesus*). *Fish Physiology and Biochemistry*, 17(1-6):357–362, December 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007761801419>.

**Perry:1997:PPF**

- [532] S. F. Perry and J. N. Fryer. Proton pumps in the fish gill and kidney. *Fish Physiology and Biochemistry*, 17(1-6):363–369, December 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007746217349>.

**Cutler:1997:EKA**

- [533] C. P. Cutler, I. L. Sanders, and G. Cramb. Expression of Na<sup>+</sup>, K<sup>+</sup>-ATPase β subunit isoforms in the European eel (*Anguilla anguilla*). *Fish Physiology and Biochemistry*, 17(1-6):371–376, December 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007794710505>.

**Renfro:1997:HRR**

- [534] J. L. Renfro. Hormonal regulation of renal inorganic phosphate transport in the winter flounder, *Pleuronectes americanus*. *Fish Physiology and Biochemistry*, 17(1-6):377–383, December 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007786424617>.

**Flik:1997:SDI**

- [535] G. Flik, T. Kaneko, and J. C. Fenwick. Sodium dependent ion transporters in trout gills. *Fish Physiology and Biochemistry*, 17(1-6):385–396, December 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168

(electronic). URL <https://link.springer.com/article/10.1023/A:1007768825043>.

**Ura:1997:ISC**

- [536] K. Ura, S. Mizuno, and K. Yamauchi. Immunohistochemical study on changes in gill  $\text{Na}^+/\text{K}^+$ -ATPase  $\alpha$ -subunit during smoltification in the wild masu salmon, *Oncorhynchus masou*. *Fish Physiology and Biochemistry*, 17(1-6):397–403, December 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007755008204>.

**Chan:1997:FPC**

- [537] D. K. O. Chan and C. K. C. Wong. Functional partition of cells in the gill epithelium of the Japanese eel, *Anguilla japonica*, and the role of hormones. *Fish Physiology and Biochemistry*, 17(1-6):405–413, December 1997. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007701826203>.

**Comhaire:1998:BCU**

- [538] S. Comhaire, R. Blust, and O. L. J. Vanderborgh. Branchial cobalt uptake in the carp, *Cyprinus carpio*: Effect of calcium channelblockers and calcium injection. *Fish Physiology and Biochemistry*, 18(1):1–13, February 1998. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007746117932>.

**Devos:1998:ECC**

- [539] E. Devos, P. Devos, and M. Cornet. Effect of cadmium on the cytoskeleton and morphology of gill chloride cells in parr and smolt Atlantic salmon (*Salmo salar*). *Fish Physiology and Biochemistry*, 18(1):15–27, February 1998. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007782027346>.

**Ohta:1998:COP**

- [540] H. Ohta and Y. Shinriki. Changes in osmotic pressure that trigger the initiation of sperm motility in the river sculpin *Cottus hangiongensis*. *Fish Physiology and Biochemistry*, 18(1):29–35, February 1998. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007773429318>.

**Blázquez:1998:SFE**

- [541] M. Blázquez, S. Zanuy, and F. Piferrer. Structural and functional effects of early exposure to estradiol-17 $\beta$  and 17 $\alpha$ -ethynodiol on the gonads of the gonochoristic teleost *Dicentrarchus labrax*. *Fish Physiology and Biochemistry*, 18(1):37–47, February 1998. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007736110663>.

**Wang:1998:DAR**

- [542] W.-D. Wang, Y.-M. Chen, and C.-H. Hu. Detection of Ah receptor and Ah receptor nuclear translocator mRNAs in the oocytes and developing embryos of zebrafish (*Danio rerio*). *Fish Physiology and Biochemistry*, 18(1):49–57, February 1998. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007790214142>.

**Iijima:1998:PCB**

- [543] N. Iijima, S. Tanaka, and Y. Ota. Purification and characterization of bile salt-activated lipase from the hepatopancreas of red sea bream, *Pagrus major*. *Fish Physiology and Biochemistry*, 18(1):59–69, February 1998. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007725513389>.

**Hamre:1998:TAG**

- [544] K. Hamre, R. K. Berge, and Ø. Lie. Turnover of  $\alpha$ -,  $\gamma$ , and  $\delta$  tocopherol and distribution insubcellular and lipoprotein fractions indicate presence of an hepatic tocopherolbinding protein in Atlantic salmon (*Salmo salar* L.). *Fish Physiology and Biochemistry*, 18(1):71–83, February 1998. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007798102002>.

**delaHiguera:1998:ITD**

- [545] M. de la Higuera, A. Garzón, and J. A. Lupiáñez. Influence of temperature and dietary-protein supplementation eitherwith free or coated lysine on the fractional protein-turnover rates in thewhite muscle of carp. *Fish Physiology and Biochemistry*, 18(1):85–95, February 1998. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007723219594>.

**Moutou:1998:HPM**

- [546] K. A. Moutou, M. D. Burke, and D. F. Houlihan. Hepatic P450 monooxygenase response in rainbow trout (*Oncorhynchus mykiss* (Walbaum)) administered aquaculture antibiotics. *Fish Physiology and Biochemistry*, 18

(1):97–106, February 1998. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007765227501>.

**Anonymous:1998:AAB**

- [547] Anonymous. Application of advanced biochemical and molecular methodologies to seabream aquaculture and its impact on the environment — Eilat, Israel, September 13–17, 1998. *Fish Physiology and Biochemistry*, 18(1):107, February 1998. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1017150832676>.

**Matschak:1998:MEA**

- [548] T. W. Matschak, D. D. Tyler, and N. C. Stickland. Metabolic enzyme activities in Atlantic salmon (*Salmo salar* L.) embryos respond more to chronic changes in oxygen availability than to environmental temperature. *Fish Physiology and Biochemistry*, 18(2):115–123, March 1998. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007706108365>.

**Driedzic:1998:EAL**

- [549] W. R. Driedzic, J. L. West, and J. A. Raymond. Enzyme activity levels associated with the production of glycerol as an antifreeze in liver of rainbow smelt (*Osmerus mordax*). *Fish Physiology and Biochemistry*, 18(2):125–134, March 1998. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007777501093>.

**Ono:1998:PCP**

- [550] H. Ono and N. Iijima. Purification and characterization of phospholipase A<sub>2</sub> isoforms from the hepatopancreas of red sea bream, *Pagrus major*. *Fish Physiology and Biochemistry*, 18(2):135–147, March 1998. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007750618685>.

**Mourente:1998:VIM**

- [551] G. Mourente and D. R. Tocher. The in vivo incorporation and metabolism of [1-<sup>14</sup>C] linolenate (18:3n – 3) in liver, brain and eyes of juveniles of rainbow trout *Oncorhynchus mykiss* L. and gilthead sea bream *Sparus aurata* L. *Fish Physiology and Biochemistry*, 18(2):149–165, March 1998. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007717312480>.

**Koppang:1998:EIL**

- [552] E. O. Koppang, G. A. Thomas, and C. McL. Press. Expression of insulin-like growth factor-i in the gastrointestinal tract of Atlantic salmon (*Salmo salar* L.). *Fish Physiology and Biochemistry*, 18(2):167–175, March 1998. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007771102755>.

**Rodriguez:1998:IHU**

- [553] C. Rodríguez, J. R. Cejas, and A. Lorenzo. Influence of  $n - 3$  highly unsaturated fatty acid deficiency on the lipid composition of broodstock gilthead seabream (*Sparus aurata* L.) and on egg quality. *Fish Physiology and Biochemistry*, 18(2):177–187, March 1998. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007750218840>.

**Terjesen:1998:ADR**

- [554] B. F. Terjesen, A. Mangor-Jensen, and H. J. Fyhn. Ammonia dynamics in relation to hatching in Atlantic halibut (*Hippoglossus hippoglossus* L.). *Fish Physiology and Biochemistry*, 18(2):189–201, March 1998. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007748424295>.

**Noble:1998:EDB**

- [555] E. Noble, H. Barré, and P. J. Dierickx. Effect of diet and  $\beta$ -naphthoflavone on hepatic and renal glutathione S-transferase isoenzymes in carp (*Cyprinus carpio*). *Fish Physiology and Biochemistry*, 18(2):203–212, March 1998. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007758129746>.

**Valente:1998:BGC**

- [556] L. M. P. Valente, E. F. S. Gomes, and B. Fauconneau. Biochemical growth characterization of fast and slow-growing rainbow trout strains: effect of cell proliferation and size. *Fish Physiology and Biochemistry*, 18(3):213–224, May 1998. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007774929535>.

**Jobling:1998:LDA**

- [557] M. Jobling, S. J. S. Johansen, and E. H. Jørgensen. Lipid dynamics in anadromous Arctic charr, *Salvelinus alpinus* (L.): seasonal variations in lipid storage depots and lipid class composition. *Fish Physiology and*

*Biochemistry*, 18(3):225–240, May 1998. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007747201521>.

**Ghioni:1998:EDF**

- [558] C. Ghioni, D. R. Tocher, and J. R. Sargent. Effects of dichlorvos and formalin on fatty acid metabolism of rainbow trout (*Oncorhynchus mykiss*) skin cells in primary culture. *Fish Physiology and Biochemistry*, 18(3):241–252, May 1998. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007730730655>.

**Mol:1998:CSI**

- [559] K. A. Mol, S. Van der Geyten, and V. M. Darras. Comparative study of iodothyronine outer ring and inner ring deiodinase activities in five teleostean fishes. *Fish Physiology and Biochemistry*, 18(3):253–266, May 1998. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007722812697>.

**Haddy:1998:DVB**

- [560] J. A. Haddy and N. W. Pankhurst. The dynamics of in vitro  $17\beta$ -estradiol secretion by isolated ovarian follicles of the rainbow trout (*Oncorhynchus mykiss*). *Fish Physiology and Biochemistry*, 18(3):267–275, May 1998. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007734831563>.

**Miyazaki:1998:DCD**

- [561] H. Miyazaki, T. Kaneko, and T. Hirano. Developmental changes in drinking rate and ion and water permeability during early life stages of euryhaline tilapia, *Oreochromis mossambicus*, reared in fresh water and seawater. *Fish Physiology and Biochemistry*, 18(3):277–284, May 1998. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007743116542>.

**Bomgren:1998:SDO**

- [562] P. Bomgren, S. Einarsson, and A.-C. Jönsson. Similarities and differences in oxynticopeptic cell ultrastructure of one marine teleost, *Gadus morhua* and one freshwater teleost, *Oncorhynchus mykiss*, during basal and histamine-stimulated phases of acid secretion. *Fish Physiology and Biochemistry*, 18(3):285–296, May 1998. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007791032472>.

**Leguen:1998:PRU**

- [563] I. Leguen, M. Pisam, and P. Poujeol. pH regulation and ultrastructural analysis in cultured gill cells from freshwater or seawater-adapted trout. *Fish Physiology and Biochemistry*, 18(3):297–309, May 1998. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007751319268>.

**Soengas:1998:DDE**

- [564] J. L. Soengas, E. F. Strong, and M. Aldegunde. Dose-dependent effects of acute melatonin treatments on brain carbohydrate metabolism of rainbow trout. *Fish Physiology and Biochemistry*, 18(4):311–319, June 1998. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007753814269>.

**Stouthart:1998:ESR**

- [565] X. J. H. X. Stouthart, M. A. J. Huijbregts, and S. E. Wendelaar Bonga. Endocrine stress response and abnormal development in carp (*Cyprinus carpio*) larvae after exposure of the embryos to PCB 126. *Fish Physiology and Biochemistry*, 18(4):321–329, June 1998. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1016076415178>.

**Brokken:1998:IPC**

- [566] L. J. S. Brokken, P. M. Verbost, and S. E. Wendelaar Bonga. Isolation, partial characterization and localization of integumental peroxidase, a stress-related enzyme in the skin of a teleostean fish (*Cyprinus carpio* L.). *Fish Physiology and Biochemistry*, 18(4):331–342, June 1998. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007707520177>.

**Dugan:1998:CDA**

- [567] S. G. Dugan and T. W. Moon. Cortisol does not affect hepatic  $\alpha$ - and  $\beta$ -adrenoceptor properties in rainbow trout (*Oncorhynchus mykiss*). *Fish Physiology and Biochemistry*, 18(4):343–352, June 1998. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007710016995>.

**Lescroart:1998:AIG**

- [568] O. Lescroart, I. Roelants, and F. Ollevier. Apomorphine-induced growth hormone-release in African catfish (*Clarias gariepinus*) is related to the animal's nutritional status. *Fish Physiology and Biochemistry*, 18(4):353–361, June 1998. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168

(electronic). URL <https://link.springer.com/article/10.1023/A:1007795100613>.

**Hwang:1998:EMP**

- [569] P. P. Hwang, M. J. Fang, and S. T. Chen. Expression of mRNA and protein of  $\text{Na}^+ \text{-K}^+$ -ATPase  $\alpha$  subunit in gills of tilapia (*Oreochromis mossambicus*). *Fish Physiology and Biochemistry*, 18(4):363–373, June 1998. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007711606064>.

**McDonald:1998:RUK**

- [570] M. D. McDonald and C. M. Wood. Reabsorption of urea by the kidney of the freshwater rainbow trout. *Fish Physiology and Biochemistry*, 18(4):375–386, June 1998. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007722318812>.

**Raymond:1998:ECS**

- [571] J. A. Raymond and A. L. DeVries. Elevated concentrations and synthetic pathways of trimethylamine oxide and urea in some teleost fishes of McMurdo Sound, Antarctica. *Fish Physiology and Biochemistry*, 18(4):387–398, June 1998. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007778728627>.

**Montero:1998:DSA**

- [572] D. Montero, L. Tort, and J. M. Vergara. Depletion of serum alternative complement pathway activity in gilthead seabream caused by  $\alpha$ -tocopherol and n-3 HUFA dietary deficiencies. *Fish Physiology and Biochemistry*, 18(4):399–407, June 1998. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007734720630>.

**Matsuyama:1998:CLV**

- [573] M. Matsuyama, K. Ohta, and A. Kambegawa. Circulating levels and in vitro production of two maturation-inducing hormones in teleost:  $17\alpha$ ,  $20\beta$ -dihydroxy-4-pregnen-3-one and  $17\alpha$ ,  $20\beta$ , 21-trihydroxy-4-pregnen-3-one, in a daily spawning wrasse, *pseudolabrus japonicus*. *Fish Physiology and Biochemistry*, 19(1):1–11, July 1998. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007761729290>.

**Negatu:1998:EIL**

- [574] Z. Negatu, S. M. Hsiao, and R. A. Wallace. Effects of insulin-like growth factor-i on final oocyte maturation and steroid production in *Fundulus heteroclitus*. *Fish Physiology and Biochemistry*, 19(1):13–21, July 1998. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:100777926238>.

**Wong:1998:DAS**

- [575] A. O. L. Wong, C. K. Murphy, and R. E. Peter. Direct actions of serotonin on gonadotropin-II and growth hormone release from goldfish pituitary cells: interactions with gonadotropin-releasing hormone and dopamine and further evaluation of serotonin receptor specificity. *Fish Physiology and Biochemistry*, 19(1):23–34, July 1998. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007713622603>.

**Payan:1998:RBO**

- [576] P. Payan, G. Borelli, and N. Mayer-Gostan. Relationship between otolith and somatic growth:consequence of starvation on acid-base balance in plasma and endolymph in the rainbow trout *Oncorhynchus mykiss*. *Fish Physiology and Biochemistry*, 19(1):35–41, July 1998. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1016064813517>.

**Conceicao:1998:AAP**

- [577] L. E. C. Conceição, R. O. A. Ozório, and J. A. J. Verreth. Amino acid profiles and amino acid utilization in larval African catfish (*Clarias gariepinus*): effects of ontogeny and temperature. *Fish Physiology and Biochemistry*, 19(1):43–58, July 1998. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007738228055>.

**Peng:1998:MPS**

- [578] K. W. Peng, S. F. Chew, and Y. K. Ip. The mudskippers *Periophthalmodon schlosseri* and *Boleophthalmus boddarti* can tolerate environmental NH<sub>3</sub> concentrations of 446 and 36μM, respectively. *Fish Physiology and Biochemistry*, 19(1):59–69, July 1998. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007745003948>.

**Smet:1998:AAP**

- [579] H. De Smet, R. Blust, and L. Moens. Absence of albumin in the plasma of the common carp *Cyprinus carpio*: binding of fatty acids to high density

- lipoprotein. *Fish Physiology and Biochemistry*, 19(1):71–81, July 1998. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007734127146>.
- Vielma:1998:CPH**
- [580] J. Vielma and S. P. Lall. Control of phosphorus homeostasis of Atlantic salmon (*Salmo salar*) in fresh water. *Fish Physiology and Biochemistry*, 19(1):83–93, July 1998. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007757321695>.
- Tsai:1998:WGA**
- [581] J. C. Tsai and P. P. Hwang. The wheat germ agglutinin binding sites and development of the mitochondria-rich cells in gills of tilapia (*Oreochromis mossambicus*). *Fish Physiology and Biochemistry*, 19(1):95–102, July 1998. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007766531264>.
- Forster:1998:ESA**
- [582] M. E. Forster, A. H. Forster, and W. Davison. Effects of serotonin, adrenaline and other vasoactive drugs on the branchial blood vessels of the Antarctic fish *Pagothenia borchgrevinki*. *Fish Physiology and Biochemistry*, 19(2):103–109, September 1998. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007739015634>.
- McKenzie:1998:DFA**
- [583] D. J. McKenzie, D. A. Higgs, and D. J. Randall. Dietary fatty acid composition influences swimming performance in Atlantic salmon (*Salmo salar*) in seawater. *Fish Physiology and Biochemistry*, 19(2):111–122, September 1998. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007779619087>.
- Dosanjh:1998:IDB**
- [584] B. S. Dosanjh, D. A. Higgs, and G. Deacon. Influence of dietary blends of menhaden oil and canola oil on growth, muscle lipid composition, and thyroidal status of Atlantic salmon (*Salmo salar*) in sea water. *Fish Physiology and Biochemistry*, 19(2):123–134, September 1998. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007727618179>.

**derGeyten:1998:CPD**

- [585] S. Van der Geyten, K. A. Mol, and V. M. Darras. Changes in plasma T<sub>3</sub> during fasting/refeeding in tilapia (*Oreochromis niloticus*) are mainly regulated through changes in hepatic type II iodothyronine deiodinase. *Fish Physiology and Biochemistry*, 19(2):135–143, September 1998. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007790527748>.

**Peres:1998:DRA**

- [586] A. Péres, J. L. Zambonino Infante, and C. Cahu. Dietary regulation of activities and mRNA levels of trypsin and amylase in sea bass (*Dicentrarchus labrax*) larvae. *Fish Physiology and Biochemistry*, 19(2):145–152, September 1998. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007775501340>.

**Izquierdo:1998:DLP**

- [587] M. S. Izquierdo and R. J. Henderson. The determination of lipase and phospholipase activities in gut contents of turbot (*Scophthalmus maximus*) by fluorescence-based assays. *Fish Physiology and Biochemistry*, 19(2):153–162, September 1998. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007734425931>.

**Blanco:1998:AHD**

- [588] G. Blanco, P. Presa, and J. A. Sánchez. Allozyme heterozygosity and development in Atlantic salmon, *Salmo salar*. *Fish Physiology and Biochemistry*, 19(2):163–169, September 1998. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007771417270>.

**Wong:1998:CNO**

- [589] H. Y. Wong, L. Y. Fung, and S. C. L. Lo. Constitutive nitric oxide synthase (NOS) activities in big-head carp (*Aristichthys nobilis*). *Fish Physiology and Biochemistry*, 19(2):171–179, September 1998. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007755015453>.

**Plaut:1998:CST**

- [590] I. Plaut. Comparison of salinity tolerance and osmoregulation in two closely related species of blennies from different habitats. *Fish Physiology and Biochemistry*, 19(2):181–188, September 1998. CODEN FP-

- BIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007798712727>.
- Parsons:1998:PBR**
- [591] G. R. Parsons and J. K. Carlson. Physiological and behavioral responses to hypoxia in the bonnethead shark, *Sphyrna tiburo*: routine swimming and respiratory regulation. *Fish Physiology and Biochemistry*, 19(2):189–196, September 1998. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007730308184>.
- Aranishi:1998:ERJ**
- [592] F. Aranishi, N. Mano, and H. Hirose. Epidermal response of the Japanese eel to environmental stress. *Fish Physiology and Biochemistry*, 19(3):197–203, October 1998. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007746514851>.
- Aranishi:1998:FLE**
- [593] F. Aranishi, N. Mano, and H. Hirose. Fluorescence localization of epidermal cathepsins L and B in the Japanese eel. *Fish Physiology and Biochemistry*, 19(3):205–209, October 1998. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007779600183>.
- Kozlova:1998:LCC**
- [594] T. A. Kozlova. Lipid class composition of benthic-pelagic fishes (Cottocomorphus, Cottoidei) from Lake Baikal. *Fish Physiology and Biochemistry*, 19(3):211–216, October 1998. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007706831689>.
- Geurden:1998:RBD**
- [595] I. Geurden, P. Bergot, and P. Sorgeloos. Relationship between dietary phospholipid classes and neutral lipid absorption in newly-weaned turbot, shape *Scophthalmus maximus*. *Fish Physiology and Biochemistry*, 19(3):217–228, October 1998. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007723515204>.
- Carpene:1998:BDL**
- [596] E. Carpene, B. Martin, and L. Dalla Libera. Biochemical differences in lateral muscle of wild and farmed gilthead sea bream (series *Sparus aurata* L.). *Fish Physiology and Biochemistry*, 19(3):229–238, October 1998.

CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007742328964>.

**Kieffer:1998:EFD**

- [597] J. D. Kieffer and B. L. Tufts. Effects of food deprivation on white muscle energy reserves in rainbow trout (*Oncorhynchus mykiss*): the relationships with body size and temperature. *Fish Physiology and Biochemistry*, 19(3):239–245, October 1998. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007759407275>.

**Rungruangsak-Torriksen:1998:EVR**

- [598] K. Rungruangsak-Torriksen, G. M. Pringle, and D. F. Houlihan. Effects of varying rearing temperatures on expression of different trypsin isozymes, feed conversion efficiency and growth in Atlantic salmon (shape *Salmo salar* L.). *Fish Physiology and Biochemistry*, 19(3):247–255, October 1998. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007731717021>.

**Alarcon:1998:CFP**

- [599] F. J. Alarcón, M. Díaz, and E. Abellán. Characterization and functional properties of digestive proteases in two sparids; gilthead seabream (*Sparus aurata*) and common dentex (*Dentex dentex*). *Fish Physiology and Biochemistry*, 19(3):257–267, October 1998. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007717708491>.

**Vizziano:1998:EGT**

- [600] D. Vizziano and F. Le Gac. Effect of gonadotropin type II and 17-hydroxy-4-pregnene-3,20-dione on 17,20 $\beta$ -dihydroxy-4-pregnen-3-one production by rainbow trout testes at different developmental stages. *Fish Physiology and Biochemistry*, 19(3):269–277, October 1998. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007784701222>.

**Grumiaux:1998:ISC**

- [601] F. Grumiaux, P. Bulet, and N. Dhainaut-Courtois. Isolation and structural characterization of hepatic metallothionein from the roach (shape *Rutilus rutilus* L.). *Fish Physiology and Biochemistry*, 19(3):279–286, October 1998. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007783701091>.

**Sandbacka:1998:RTG**

- [602] M. Sandbacka, H. Lilius, and B. Isomaa. Rainbow trout gill epithelial cells in primary culture communicate through gap junctions as demonstrated by dye-coupling. *Fish Physiology and Biochemistry*, 19(3):287–292, October 1998. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007732715334>.

**Nunez:1998:MBE**

- [603] S. Nunez and J. M. Trant. Molecular biology and enzymology of elasmobranch  $3\beta$ -hydroxysteroid dehydrogenase. *Fish Physiology and Biochemistry*, 19(4):293–304, December 1998. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007730619721>.

**Ebbesson:1998:PIH**

- [604] L. O. E. Ebbesson, B. Th. Björnsson, and P. Ekström. Propylthiouracil-induced hypothyroidism in Coho salmon, *Oncorhynchus kisutch*: effects on plasma total thyroxine, total triiodothyronine, free thyroxine, and growth hormone. *Fish Physiology and Biochemistry*, 19(4):305–314, December 1998. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007775516113>.

**Pankhurst:1998:FEE**

- [605] N. W. Pankhurst. Further evidence of the equivocal effects of cortisol on *in vitro* steroidogenesis by ovarian follicles of rainbow trout *Oncorhynchus mykiss*. *Fish Physiology and Biochemistry*, 19(4):315–323, December 1998. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007751403189>.

**Lokman:1998:GHPa**

- [606] P. Mark Lokman, Gerard J. Vermeulen, and Graham Young. Gonad histology and plasma steroid profiles in wild New Zealand freshwater eels (*Anguilla dieffenbachii* and *A. australis*) before and at the onset of the natural spawning migration. I. Females. *Fish Physiology and Biochemistry*, 19(4):325–338, December 1998. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007719414295>.

**Lokman:1998:GHPb**

- [607] P. M. Lokman and G. Young. Gonad histology and plasma steroid profiles in wild New Zealand freshwater eels (*Anguilla dieffenbachii* and *A.*

*australis*) before and at the onset of the natural spawning migration. II. Males. *Fish Physiology and Biochemistry*, 19(4):339–347, December 1998. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007767330225>.

**Clearwater:1998:GRH**

- [608] S. J. Clearwater and L. W. Crim. Gonadotropin releasing hormone-analogue treatment increases sperm motility, seminal plasma pH and sperm production in yellowtail flounder *Pleuronectes ferrugineus*. *Fish Physiology and Biochemistry*, 19(4):349–357, December 1998. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007759620936>.

**Senthilkumaran:1998:MII**

- [609] B. Senthilkumaran and K. P. Joy. Methallibure-induced inhibition of hypothalamo-hypophyseal-ovarian activity in the catfish *Heteropneustes fossilis* involves changes in hypothalamic monoamine activity. *Fish Physiology and Biochemistry*, 19(4):359–364, December 1998. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007707604097>.

**Geurden:1998:IFA**

- [610] I. Geurden, O. S. Reyes, and P. Sorgeloos. Incorporation of fatty acids from dietary neutral lipid in eye, brain and muscle of postlarval turbot fed diets with different types of phosphatidylcholine. *Fish Physiology and Biochemistry*, 19(4):365–375, December 1998. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007771431134>.

**Morgan:1998:EEW**

- [611] I. J. Morgan, L. M. D-Cruz, and C. M. Wood. The effects of elevated winter temperature and sub-lethal pollutants (low pH, elevated ammonia) on protein turnover in the gill and liver of rainbow trout (*Oncorhynchus mykiss*). *Fish Physiology and Biochemistry*, 19(4):377–389, December 1998. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007748213387>.

**Roy:1999:FAC**

- [612] R. Roy, E. Fodor, and T. Farkas. Fatty acid composition of the ingested food only slightly affects physicochemical properties of liver total phospholipids and plasma membranes in cold-adapted freshwater fish. *Fish*

*Physiology and Biochemistry*, 20(1):1–11, January 1999. CODEN FP-BIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007755520027>.

Olsen:1999:ITD

- [613] R. E. Olsen, E. Løvaas, and Ø. Lie. The influence of temperature, dietary polyunsaturated fatty acids,  $\alpha$ -tocopherol and spermine on fatty acid composition and indices of oxidative stress in juvenile Arctic char, *Salvelinus alpinus* (L.). *Fish Physiology and Biochemistry*, 20(1):13–29, January 1999. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007767827996>.

Lay:1999:WDS

- [614] P. A. Lay and J. Baldwin. What determines the size of teleost erythrocytes? Correlations with oxygen transport and nuclear volume. *Fish Physiology and Biochemistry*, 20(1):31–35, January 1999. CODEN FP-BIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007785202280>.

Aranishi:1999:LPB

- [615] F. Aranishi. Lysis of pathogenic bacteria by epidermal cathepsins L and B in the Japanese eel. *Fish Physiology and Biochemistry*, 20(1):37–41, January 1999. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007763711158>.

Ruane:1999:MRR

- [616] N. M. Ruane, D. T. Nolan, and S. E. Wendelaar Bonga. Modulation of the response of rainbow trout (*Oncorhynchus mykiss* Walbaum) to confinement, by an ectoparasitic (*Argulus foliaceus* L.) infestation and cortisol feeding. *Fish Physiology and Biochemistry*, 20(1):43–51, January 1999. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007744617518>.

Montero:1999:HSD

- [617] D. Montero, M. S. Izquierdo, and J. M. Vergara. High stocking density produces crowding stress altering some physiological and biochemical parameters in gilthead seabream, *Sparus aurata*, juveniles. *Fish Physiology and Biochemistry*, 20(1):53–60, January 1999. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007719928905>.

**McKendry:1999:NPC**

- [618] J. E. McKendry, N. J. Bernier, and S. F. Perry. Natriuretic peptides and the control of catecholamine release in two freshwater teleost and a marine elasmobranch fish. *Fish Physiology and Biochemistry*, 20(1):61–77, January 1999. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007792500680>.

**Jakobsson:1999:KIK**

- [619] S. Jakobsson, B. Borg, and S. J. Hyllner. An 11-ketotestosterone induced kidney-secreted protein: the nest building glue from male three-spined stickleback, *Gasterosteus aculeatus*. *Fish Physiology and Biochemistry*, 20(1):79–85, January 1999. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007776016610>.

**Owen:1999:EVR**

- [620] S. F. Owen, I. D. McCarthy, and M. J. Rennie. *In vivo* rates of protein synthesis in Atlantic salmon (*Salmo salar* L.) smolts determined using a stable isotope flooding dose technique. *Fish Physiology and Biochemistry*, 20(1):87–94, January 1999. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007724012975>.

**Puente-Novoa:1999:PKC**

- [621] J. M. Puente-Novoa and P. Barja. Protein kinase C in the spleen of the turbot (*Scophthalmus maximus* L.). *Fish Physiology and Biochemistry*, 20(2):101–114, February 1999. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007759610249>.

**Kraak:1999:PFA**

- [622] G. Van Der Kraak and S. Biddiscombe. Polyunsaturated fatty acids modulate the properties of the sex steroid binding protein in goldfish. *Fish Physiology and Biochemistry*, 20(2):115–123, February 1999. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007707609341>.

**Perez:1999:UER**

- [623] J. A. Pérez, C. Rodríguez, and R. J. Henderson. The uptake and esterification of radiolabelled fatty acids by enterocytes isolated from rainbow trout (*Oncorhynchus mykiss*). *Fish Physiology and Biochemistry*, 20(2):125–134, February 1999. CODEN FPBIEP. ISSN 0920-1742 (print),

1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007795516689>.

**Samuelsen:1999:OBP**

- [624] E. N. Samuelsen, A. K. Imsland, and O. Brix. Oxygen binding properties of three different hemoglobin genotypes in turbot (*Scophthalmus maximus* Rafinesque): Effect of temperature and pH. *Fish Physiology and Biochemistry*, 20(2):135–141, February 1999. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007755525270>.

**Bon:1999:EAP**

- [625] E. Bon, B. Breton, and F. Le Menn. Effects of accelerated photoperiod regimes on the reproductive cycle of the female rainbow trout: II seasonal variations of plasma gonadotropins (GTH I and GTH II) levels correlated with ovarian follicle growth and egg size. *Fish Physiology and Biochemistry*, 20(2):143–154, February 1999. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007783708432>.

**Hou:1999:ESH**

- [626] Y. Y. Hou, Y. Suzuki, and K. Aida. Effects of steroid hormones on immunoglobulin M (IgM) in rainbow trout, *Oncorhynchus mykiss*. *Fish Physiology and Biochemistry*, 20(2):155–162, February 1999. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007799617597>.

**Leonard:1999:EMD**

- [627] J. B. K. Leonard and S. D. McCormick. The effect of migration distance and timing on metabolic enzyme activity in an anadromous clupeid, the American shad (*Alosa sapidissima*). *Fish Physiology and Biochemistry*, 20(2):163–179, February 1999. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007751701668>.

**Martinez:1999:TCT**

- [628] M. Martínez, P. Couture, and H. Guderley. Temporal changes in tissue metabolic capacities of wild Atlantic cod *Gadus morhua* (L.), from Newfoundland. *Fish Physiology and Biochemistry*, 20(2):181–191, February 1999. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007747600759>.

**Pradet-Balade:1999:THR**

- [629] B. Pradet-Balade, C. Burel, and G. Boeuf. Thyroid hormones downregulate thyrotropin  $\beta$  mRNA level in vivo in the turbot (*Psetta maxima*). *Fish Physiology and Biochemistry*, 20(3):193–199, March 1999. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007791415780>.

**Mol:1999:EEH**

- [630] K. A. Mol, S. Van der Geyten, and V. M. Darras. Effects of experimental hypo- and hyperthyroidism on iodothyronine deiodinases in Nile tilapia, *Oreochromis niloticus*. *Fish Physiology and Biochemistry*, 20 (3):201–207, March 1999. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007739431710>.

**Raine:1999:OTT**

- [631] J. C. Raine and J. F. Leatherland. Ontogeny of thyroid tissue and tissue thyroid hormone clearance in rainbow trout embryos reared at two temperatures. *Fish Physiology and Biochemistry*, 20(3):209–217, March 1999. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007775807438>.

**Perrot:1999:CDI**

- [632] V. Perrot and B. Funkenstein. Cellular distribution of insulin-like growth factor II (IGF-II) mRNA and hormonal regulation of IGF-I and IGF-II mRNA expression in rainbow trout testis (*Oncorhynchus mykiss*). *Fish Physiology and Biochemistry*, 20(3):219–229, March 1999. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007735314871>.

**Afonso:1999:EAI**

- [633] L. O. B. Afonso, G. K. Iwama, and E. M. Donaldson. Effects of the aromatase inhibitor Fadrozole on plasma sex steroid secretion and oocyte maturation in female Coho salmon (*Oncorhynchus kisutch*) during vitellogenesis. *Fish Physiology and Biochemistry*, 20(3):231–241, March 1999. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007771723367>.

**Srivastava:1999:AEA**

- [634] A. S. Srivastava, I. Oohara, and S. N. Singh. Activity and expression of aspartate aminotransferase during the reproductive cycle of a fresh water fish, *Clarias batrachus*. *Fish Physiology and Biochemistry*, 20(3):243–250, March 1999. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168

- (electronic). URL <https://link.springer.com/article/10.1023/A:1007783213963>.
- Ramseyer:1999:EDZ**
- [635] L. Ramseyer, D. Garling, Jr., and J. Link. Effect of dietary zinc supplementation and phytase pre-treatment of soybean meal or corn gluten meal on growth, zinc status and zinc-related metabolism in rainbow trout, *Oncorhynchus mykiss*. *Fish Physiology and Biochemistry*, 20(3):251–261, March 1999. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007719722459>.
- Bell:1999:EEF**
- [636] J. G. Bell, D. R. Tocher, and J. R. Sargent. Effects of essential fatty acid-deficient diets on growth, mortality, tissue histopathology and fatty acid compositions in juvenile turbot (*Scophthalmus maximus*). *Fish Physiology and Biochemistry*, 20(3):263–277, March 1999. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007743532618>.
- Smith:1999:CHS**
- [637] T. R. Smith, G. C. Tremblay, and T. M. Bradley. Characterization of the heat shock protein response of Atlantic salmon (*Salmo salar*). *Fish Physiology and Biochemistry*, 20(3):279–292, March 1999. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007743329892>.
- Lemieux:1999:DDE**
- [638] H. Lemieux, P. Blier, and J.-D. Dutil. Do digestive enzymes set a physiological limit on growth rate and food conversion efficiency in the Atlantic cod (*Gadus morhua*)? *Fish Physiology and Biochemistry*, 20(4):293–303, May 1999. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007791019523>.
- Dersjant-Li:1999:IDC**
- [639] Y. Dersjant-Li, J. A. J. Verreth, and M. W. A. Verstegen. The influence of dietary cation-anion differences on acid-base balance, food intake, growth and nutrient utilisation of juvenile African catfish *Clarias gariepinus* (Burchell). *Fish Physiology and Biochemistry*, 20(4):305–311, May 1999. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007707507228>.

**Sun:1999:AZD**

- [640] L.-T. Sun and S.-S. Jeng. Accumulation of zinc from diet and its release in common carp. *Fish Physiology and Biochemistry*, 20(4):313–324, May 1999. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007770431819>.

**Aldegunde:1999:ECE**

- [641] M. Aldegunde, J. L. Soengas, and M. D. Andrés. Effects of chronic exposure to  $\gamma$ -HCH (Lindane) on brain serotonergic and gabaergic systems, and serum cortisol and thyroxine levels of rainbow trout, *Oncorhynchus mykiss*. *Fish Physiology and Biochemistry*, 20(4):325–330, May 1999. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007795121340>.

**Sternberg:1999:RGH**

- [642] H. Sternberg and B. Moav. Regulation of the growth hormone gene by fish thyroid/retinoid receptors. *Fish Physiology and Biochemistry*, 20(4):331–339, May 1999. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007778632727>.

**Maestro:1999:DII**

- [643] M. A. Maestro, E. Méndez, and J. Gutiérrez. Dynamics of insulin and insulin-like growth factor-i (IGF-I) ovarian receptors during maturation in the brown trout (*Salmo trutta*). *Fish Physiology and Biochemistry*, 20(4):341–349, May 1999. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007767605620>.

**Martin:1999:ASS**

- [644] S. A. M. Martin, A. F. Youngson, and A. Ferguson. Atlantic salmon (*Salmo salar*) prolactin cDNA sequence and its mRNA expression after transfer of fish between salinities. *Fish Physiology and Biochemistry*, 20(4):351–359, May 1999. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007711504712>.

**Heppell:1999:GMM**

- [645] S. A. Heppell and C. V. Sullivan. Gag (mycteroptera microlepis) vitellogenin: purification, characterization and use for enzyme-linked immunosorbent assay (ELISA) of female maturity in three species of grouper. *Fish Physiology and Biochemistry*, 20(4):361–374, May 1999. CODEN

- FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007730816797>.
- Lahnsteiner:1999:PBP**
- [646] F. Lahnsteiner, T. Weismann, and R. A. Patzner. Physiological and biochemical parameters for egg quality determination in lake trout, *Salmo trutta lacustris*. *Fish Physiology and Biochemistry*, 20(4):375–388, May 1999. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007715621550>.
- Bencic:1999:ALC**
- [647] D. C. Bencic, M. Krisfalusi, and R. L. Ingermann. ATP levels of Chinook salmon (*Oncorhynchus tshawytscha*) sperm following in vitro exposure to various oxygen tensions. *Fish Physiology and Biochemistry*, 20(4):389–397, May 1999. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007749703803>.
- Sandbacka:1999:CRT**
- [648] M. Sandbacka, H. Lilius, and B. Isomaa. Corrigendum — rainbow trout gill epithelial cells in primary culture communicate through gap junctions as demonstrated by dye-coupling. *Fish Physiology and Biochemistry*, 20(4):399, May 1999. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007813029384>.
- Amiri:1999:VST**
- [649] B. M. Amiri, M. Maebayashi, and K. Yamauchi. In vitro steroidogenesis by testicular fragments and ovarian follicles in a hybrid sturgeon, bester. *Fish Physiology and Biochemistry*, 21(1):1–14, July 1999. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007706128184>.
- Moon:1999:FHG**
- [650] T. W. Moon, E. R. Busby, and T. P. Mommsen. Fish hepatocyte glycogen phosphorylase — a sensitive indicator for hormonal modulation. *Fish Physiology and Biochemistry*, 21(1):15–24, July 1999. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007762229093>.
- Mancera:1999:ICG**
- [651] J. M. Mancera and S. D. McCormick. Influence of cortisol, growth hormone, insulin-like growth factor I and 3,3', 5-triiodo-l-thyronine on hy-

poosmoregulatory ability in the euryhaline teleost *Fundulus heteroclitus*. *Fish Physiology and Biochemistry*, 21(1):25–33, July 1999. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007737924339>.

Olsen:1999:LDU

- [652] R. E. Olsen, R. Myklebust, and E. Ringø. Lipid digestibility and ultrastructural changes in the enterocytes of Arctic char (*Salvelinus alpinus* L.) fed linseed oil and soybean lecithin. *Fish Physiology and Biochemistry*, 21(1):35–44, July 1999. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007726615889>.

Mourente:1999:ULD

- [653] G. Mourente, A. Rodríguez, and E. Pastor. Utilization of lipids by *Dentex dentex* L. (Osteichthyes, Sparidae) larvae during lecitotrophia and subsequent starvation. *Fish Physiology and Biochemistry*, 21(1):45–58, July 1999. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007789908409>.

Kestemont:1999:CEL

- [654] P. Kestemont, J. Cooremans, and C. Mélard. Cathepsin L in eggs and larvae of perch *Perca fluviatilis*: variations with developmental stage and spawning period. *Fish Physiology and Biochemistry*, 21(1):59–64, July 1999. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007714314072>.

Liu:1999:CNT

- [655] Z. Liu, P. Li, and R. Dunham. Characterization of nonautonomous tc1-like transposable elements of channel catfish (*Ictalurus punctatus*). *Fish Physiology and Biochemistry*, 21(1):65–72, July 1999. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007710212254>.

Suzuki:1999:SEA

- [656] T. Suzuki, T. Kurokawa, and D. C. McVey. Sequence and expression analyses of cholecystokinin (CCK) precursor cDNA in the Japanese flounder (*Paralichthys olivaceus*). *Fish Physiology and Biochemistry*, 21(1):73–80, July 1999. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007703422249>.

**Peters:1999:CEO**

- [657] R. C. Peters and R. H. S. Westerink. Catfish electroreceptor organ functioning during five days exposure to different calcium environments. *Fish Physiology and Biochemistry*, 21(1):81–88, July 1999. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007712627275>.

**Blin:1999:TLH**

- [658] C. Blin, S. Panserat, and R. Krishnamoorthy. Teleost liver hexokinase- and glucokinase-like enzymes: partial cDNA cloning and phylogenetic studies in rainbow trout (*Oncorhynchus mykiss*), common carp (*Cyprinus carpio*) and gilthead seabream (*Sparus aurata*). *Fish Physiology and Biochemistry*, 21(2):93–102, August 1999. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007748204428>.

**Kagawa:1999:EES**

- [659] N. Kagawa, K. Ryo, and Y. Mugiya. Enhanced expression of stress protein 70 in the brains of goldfish, *Carassius auratus*, reared with bluegills, *Lepomis macrochirus*. *Fish Physiology and Biochemistry*, 21(2):103–110, August 1999. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007785707501>.

**Yao:1999:BCG**

- [660] K. Yao and P.-Y. Le Bail. Biochemical characterization of growth hormone receptor in rainbow trout (*Oncorhynchus mykiss*) before and after purification. *Fish Physiology and Biochemistry*, 21(2):111–120, August 1999. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007733723430>.

**Vissio:1999:CAG**

- [661] P. G. Vissio, A. V. Stefano, and D. A. Paz. Close association of gonadotropin-releasing hormone fibers and gonadotropin, growth hormone, somatolactin and prolactin expressing cells in pejerrey, *Odonostethes bonariensis*. *Fish Physiology and Biochemistry*, 21(2):121–127, August 1999. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007781606592>.

**Reddy:1999:ECT**

- [662] P. K. Reddy, R. Renaud, and J. F. Leatherland. Effects of cortisol and triiodo-L-thyronine on the steroidogenic capacity of rainbow trout ovar-

ian follicles at two stages of oocyte maturation. *Fish Physiology and Biochemistry*, 21(2):129–140, August 1999. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007800707094>.

**Kulczykowska:1999:DCP**

- [663] E. Kulczykowska. Diel changes in plasma arginine vasotocin, isotocin, and melatonin in rainbow trout (*Oncorhynchus mykiss*). *Fish Physiology and Biochemistry*, 21(2):141–146, August 1999. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007808924841>.

**Pickova:1999:FAC**

- [664] J. Pickova, A. Kiessling, and P. C. Dutta. Fatty acid and carotenoid composition of eggs from two nonanadromous Atlantic salmon stocks of cultured and wild origin. *Fish Physiology and Biochemistry*, 21(2):147–156, August 1999. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007860908911>.

**Krieger:1999:YMP**

- [665] J. Krieger and R. Fleig. Yolk mobilization in perch, *Perca fluviatilis* L., embryos. *Fish Physiology and Biochemistry*, 21(2):157–165, August 1999. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007843306186>.

**Eddy:1999:ENO**

- [666] F. B. Eddy, L. McGovern, and J. C. McGeer. Effect of a nitric oxide releasing compound isosorbide dinitrate on development and cardiovascular physiology of rainbow trout (*Oncorhynchus mykiss*). *Fish Physiology and Biochemistry*, 21(2):167–171, August 1999. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007712622522>.

**Schlenk:1999:EEC**

- [667] D. Schlenk, E. J. Perkins, and W. B. Hawkins. Effect of ethanol, clofibrate acid and temperature on the uptake and elimination of 2-methylisoborneol in channel catfish (*Ictalurus punctatus*). *Fish Physiology and Biochemistry*, 21(2):173–178, August 1999. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007706505337>.

**Saucier:1999:CIO**

- [668] D. Saucier, A. K. Julliard, and L. Astic. CYP1A1 immunolocalization in the olfactory organ of rainbow trout and its possible induction by  $\beta$ -naphthoflavone: analysis in adults and embryos around hatching. *Fish Physiology and Biochemistry*, 21(2):179–192, August 1999. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007754421267>.

**Bencic:1999:MST**

- [669] D. C. Bencic, M. Krisfalusi, and R. L. Ingermann. Maintenance of steelhead trout (*Oncorhynchus mykiss*) sperm at different in vitro oxygen tensions alters ATP levels and cell functional characteristics. *Fish Physiology and Biochemistry*, 21(3):193–200, October 1999. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007880426488>.

**Yoshiura:1999:MCC**

- [670] Y. Yoshiura, Y. C. Sohn, and K. Aida. Molecular cloning of the cDNA encoding the  $\beta$  subunit of thyrotropin and regulation of its gene expression by thyroid hormones in the goldfish, *Carassius auratus*. *Fish Physiology and Biochemistry*, 21(3):201–210, October 1999. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007884527397>.

**Reddy:1999:MSI**

- [671] P. K. Reddy, A. C. Holloway, and J. F. Leatherland. Melatonin, but not somatostatin-14 influences in vitro steroidogenesis by ovarian follicles of rainbow trout. *Fish Physiology and Biochemistry*, 21(3):211–222, October 1999. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007811907833>.

**Rungruangsak-Torriksen:1999:MRP**

- [672] K. Rungruangsak-Torriksen, C. G. Carter, and D. F. Houlihan. Maintenance ration, protein synthesis capacity, plasma insulin and growth of Atlantic salmon (*Salmo salar* L.) with genetically different trypsin isozymes. *Fish Physiology and Biochemistry*, 21(3):223–233, October 1999. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007804823932>.

**Davis:1999:RJR**

- [673] D. A. Davis, J. P. Lazo, and C. R. Arnold. Response of juvenile red drum (*Sciaenops ocellatus*) to practical diets supplemented with medium

chain triglycerides. *Fish Physiology and Biochemistry*, 21(3):235–248, October 1999. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007836612376>.

**Craig:1999:EDL**

- [674] S. R. Craig, B. S. Washburn, and D. M. Gatlin III. Effects of dietary lipids on body composition and liver function in juvenile red drum, *Sciaenops ocellatus*. *Fish Physiology and Biochemistry*, 21(3):249–255, October 1999. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007843420128>.

**Tocher:1999:PFA**

- [675] D. R. Tocher and J. R. Dick. Polyunsaturated fatty acid metabolism in a cell culture model of essential fatty acid deficiency in a freshwater fish, carp (*Cyprinus carpio*). *Fish Physiology and Biochemistry*, 21 (3):257–267, October 1999. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007832510559>.

**Nikinmaa:1999:IPR**

- [676] M. Nikinmaa, A. Bogdanova, and L. V. Virkki. Intracellular pH regulation of rainbow trout and carp thrombocytes. *Fish Physiology and Biochemistry*, 21(3):269–275, October 1999. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007856808003>.

**Wartman:1999:EAT**

- [677] C. A. Wartman, J. M. Mokler, and J. F. Burka. Effects of acclimation temperatures of 7 and 14°C on the contractility of Atlantic salmon (*Salmo salar*) intestinal smooth muscle in vitro. *Fish Physiology and Biochemistry*, 21(3):277–284, October 1999. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007803721945>.

**Anonymous:1999:PA**

- [678] Anonymous. Publisher's announcement. *Fish Physiology and Biochemistry*, 21(4):285, December 1999. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1017291417129>.

**Huriaux:1999:MPW**

- [679] F. Huriaux, P. Vandewalle, and B. Focant. Myofibrillar proteins in white muscle of the developing African catfish *Heterobranchus longifilis* (Sil-

- uriforms, Clariidae). *Fish Physiology and Biochemistry*, 21(4):287–301, December 1999. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007835101472>.
- Saha:1999:SUP**
- [680] N. Saha and L. Das. Stimulation of ureogenesis in the perfused liver of an Indian air-breathing catfish, *Clarias batrachus*, infused with different concentrations of ammonium chloride. *Fish Physiology and Biochemistry*, 21 (4):303–311, December 1999. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007856432423>.
- Ciereszko:1999:PUA**
- [681] A. Ciereszko, K. Dabrowski, and J. Glogowski. The presence of uric acid, an antioxidantive substance, in fish seminal plasma. *Fish Physiology and Biochemistry*, 21(4):313–315, December 1999. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007886121663>.
- Martinez:1999:DEA**
- [682] I. Martínez, F. J. Moyano, and M. Yúfera. Digestive enzyme activity during larval development of the Senegal sole (*Solea senegalensis*). *Fish Physiology and Biochemistry*, 21(4):317–323, December 1999. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007802708459>.
- Aas:1999:BAM**
- [683] G. H. Aas, B. Bjerkeng, and B. Ruyter. Blood appearance, metabolic transformation and plasma transport proteins of <sup>14</sup>C-astaxanthin in Atlantic salmon (*Salmo salar* L.). *Fish Physiology and Biochemistry*, 21 (4):325–334, December 1999. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007890224389>.
- Pavlidis:1999:PTA**
- [684] M. Pavlidis, M. Berry, and M. Kentouri. Prothrombin time, activated partial thromboplastin time and fibrinogen values in Mediterranean marine teleosts. *Fish Physiology and Biochemistry*, 21(4):335–343, December 1999. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007882020754>.

**Lee:1999:ETS**

- [685] Y.-H. Lee, J.-L. Du, and C.-F. Chang.  $17\beta$ -estradiol, but not testosterone stimulates gonadotropin II concentrations in the protandrous black porgy, *Acanthopagrus schlegeli* Bleeker. *Fish Physiology and Biochemistry*, 21(4):345–351, December 1999. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007830019846>.

**Bjerkeng:1999:IKE**

- [686] B. Bjerkeng, K. Johnsen, and K. J. Nilssen. Influence of 11-ketotestosterone,  $17\beta$ -estradiol, and 3,5,3'-triodo-L-thyronine on distribution and metabolism of carotenoids in Arctic charr, *Salvelinus alpinus* L. *Fish Physiology and Biochemistry*, 21(4):353–364, December 1999. CODEN FPBIEP. ISSN 0920-1742 (print), 1573-5168 (electronic). URL <https://link.springer.com/article/10.1023/A:1007802803008>.