

FISHES

- Akamatsu, T., Matsusita, Y., Hatakeyama, Y. & Inoue, Y. (1997). Startle response level of the Japanese anchovy *Engraulis japonicus* to underwater pure tone signals. *Bioacoustics*, **8**, 267.
- Amorim, M. C. de & Hawkins, A. D. (1995). Acoustic communication in triglid fish. *Bioacoustics*, **6**, 220.
- Amorim, M. C. P. de & Hawkins, A. D. (1994). Sounds produced by the grey gurnard *Eutrigla gurnardus* L. (Pisces, Triglidae) and related fish. *Bioacoustics*, **6**, 69-70.
- Amorim, M. C. P., McCracken, M. L. & Fine, M. L. (2002). Bioenergetics of calling in oyster toadfish *Opsanus tau*. *Bioacoustics*, **12**, 223-225.
- Amorim, M. C. P. & Hawkins, A. D. (2000). Growling for food: acoustic emissions during competitive feeding of the streaked gurnard. *J. Fish. Biol.*, **57**, 895-907.
- Amorim, M. C. P. de (1996). Sound production in the blue-green damselfish, *Chromis viridis* (Cuvier, 1830)(Pomacentridae). *Bioacoustics*, **6**, 265-272.
- Astrup, J. & Moehl, B. (1993). Detection of intense ultrasound by the cod *Gadus morhua*. *J. Exp. Biol.*, **182**, 71-81.
- Astrup, J. & Moehl, B. (1998). Discrimination between high and low repetition rates of ultrasonic pulses by the cod. *J. Fish Biol.*, **52**, 205-208.
- Barimo, J. F. & Fine, M. L. (1998). Relationship of swim-bladder shape to the directionality pattern of underwater sound in the oyster toadfish. *Can. J. Zool.*, **76**, 134-143.
- Bass, A. H. (1995). Alternative life history strategies and dimorphic males in an acoustic communication system. In *Proceedings of the Fifth International Symposium on the Reproductive Physiology of Fish*, pp. 258-260.
- Bass, A. H., Marchaterre, M. A. & Baker, H. (2001). Catecholaminergic innervation of central auditory system in a vocal teleost. *Soc. Neurosci. Abstr.*, **27**, 240.
- Bass, A. H. (2001). Fish songs: Temporal scaling of divergent vocal phenotypes for alternative male reproductive morphs. *Horm. Behav.*, **39**, 313.
- Bass, A. H. (1998). Behavioral and evolutionary neurobiology: A pluralistic approach. *Am. Zool.*, **38**, 97-107.
- Bass, A. H. & Andersen, K. (1991). Inter- and intra-sexual dimorphism in the vocal control system of a teleost fish: motor axon number and size. *Brain Behav. Evol.*, **37**, 204-214.
- Bass, A. H., Marchaterre, M. A. & Baker, R. (1993). Transneuronal biocytin delineates species differences in a brainstem vocal-acoustic circuit in sound producing fish. *Soc. Neurosci. Abstr.*, **19**, 1202.
- Bass, A. H., Bodnar, D. A. & Marchaterre, M. A. (2000). Midbrain acoustic circuitry in a vocalizing fish. *J. Comp. Neurol.*, **419**, 505-531.
- Bass, A. H., Bodnar, D. & Marchaterre, M. A. (1999). Complementary explanations for existing phenotypes in an acoustic communication system. In *The Design of Animal Communication* (M. D. Hauser and M. Konishi, eds.). MIT Press; Cambridge, Massachusetts, pp. 493-514.
- Bass, A. H., Horvath, B. J. & Brothers, E. B. (1996). Nonsequential developmental trajectories lead to dimorphic vocal circuitry for males with alternative reproductive tactics. *J. Neurobiol.*, **30**, 493-504.
- Bass, A. H. (2002). Neural and endocrine regulation of vocal-acoustic networks. *Bioacoustics*, **12**, 247-249.
- Bass, A. H., Marchaterre, M. A. & Baker, R. (1994). Vocal-acoustic pathways in a teleost fish. *J. Neurosci.*, **14**, 4025-4039.
- Bass, A. H., Bodnar, D. A. & Marchaterre, M. A. (2001). Acoustic nuclei in the medulla and midbrain of the vocalizing Gulf toadfish (*Opsanus beta*). *Brain Behav. Evol.*, **57**, 63-79.
- Bisazza, A., Rogers, L. J. & Vallortigara, G. (1998). The origins of cerebral asymmetry: A review of evidence of behavioural and brain lateralization in fishes, reptiles and amphibians. *Neurosci. Biobehav. Rev.*, **22**, 411-426.
- Bleckmann, H., Niemann, U. & Fritzsch, B. (1991). Peripheral and central aspects of the acoustic and lateral line system of a bottom dwelling catfish, *Ancistrus* sp. *J. Comp. Neurol.*, **314**, 452-466.
- Bodnar, D. A. & Bass, A. H. (2001). The coding of concurrent vocal signals by the auditory midbrain: The effects of stimulus level and depth of modulation. *J. Acoust. Soc. Am.*, **109**, 809-825.
- Bodnar, D. A. & Bass, A. H. (2001). Coding of concurrent vocal signals by the auditory midbrain: effects of duration. *J. Comp. Physiol. A.*, **187**, 381-391.
- Bodnar, D. A., Holub, A. D., Land, B. R., Skovira, J. & Bass, A. H. (2001). Temporal population code of concurrent vocal signals in the auditory midbrain. *J. Comp. Physiol. A.*, **187**, 865-873.
- Bonacito, C., Costantini, M., Picciulin, M., Ferrero, E. A. & Hawkins, A. D. (2002). Passive hydrophone census of *Sciaena umbra* (Sciaenidae) in the Gulf of Trieste (Northern Adriatic Sea, Italy). *Bioacoustics*, **12**, 292-294.
- Brantley, R. K., Tseng, J. & Bass, A. H. (1993). The ontogeny of inter- and intrasexual vocal muscle dimorphisms in a sound-producing fish. *Brain Behav. Evol.*, **42**, 336-349.
- Brantley, R. C., Marchaterre, M. A. & Bass, A. H. (1993). Androgen effects on vocal muscle structure in a

- teleost fish with inter- and intra-sexual dimorphism. *J. Morphol.*, **216**, 305-318.
- Brantley, R. K. & Bass, A. H. (1994). Alternative male spawning tactics and acoustic signals in the plainfin midshipman fish *Porichthys notatus* Girard (Teleostei: Batrachoididae). *Ethology*, **96**, 213-232.
- Braun, C. B. & Grande, T. (2002). Evolution of the octavolateralis system: A phylogenetic assessment. *Bioacoustics*, **12**, 118-120.
- Carlson, B. A. & Bass, A. H. (2000). Sonic/vocal motor pathways in squirrelfish (Teleostei, Holocentridae). *Brain Behav. Evol.*, **56**, 14-28.
- Carr, C. E. (1993). Processing of temporal information in the brain. *Ann. Rev. Neurosci.*, **16**, 223-243.
- Casagrand, J. L., Cummins, G. I. & Eaton, R. C. (2002). Modelling studies and physiology of discriminatory coincidence detection in the Mauthner neuron. *Bioacoustics*, **12**, 212-214.
- Casaretto, L. & Hawkins, A. D. (2002). Spawning behaviour and the acoustic repertoire of haddock. *Bioacoustics*, **12**, 250-252.
- Chang, J. Y. S., Popper, A. N. & Saidel, W. M. (1992). Heterogeneity of sensory hair cells in a fish ear. *J. Comp. Neurol.*, **324**, 621-640.
- Coffin, A. B., Higgs, D. M., Presson, J. C. & Popper, A. N. (2002). Distribution of unconventional myosins in the zebrafish ear. *Bioacoustics*, **12**, 140-142.
- Colson, D. J., Patek, S. N., Brainerd, E. L. & Lewis, S. M. (1998). Sound production during feeding in *Hippocampus* seahorses (Syngnathidae). *Environ. Biol. Fishes*, **51**, 221-229.
- Connaughton, M. A. & Taylor, M. H. (1996). Drumming, courtship, and spawning behavior in captive weakfish, *Cynoscion regalis*. *Copeia*, **1996**, 195-199.
- Connaughton, M. A. & Taylor, M. H. (1995). Seasonal and daily cycles in sound production associated with spawning in weakfish, *Cynoscion regalis*. *Environ. Biol. Fish.*, **42**, 233-240.
- Connaughton, M. A., Fine, M. L. & Taylor, M. H. (2002). Use of sound for localisation of spawning weakfish in Delaware Bay (USA) and effects of fish size, temperature and season on sound parameters. *Bioacoustics*, **12**, 294-296.
- Connaughton, M. A., Taylor, M. H. & Fine, M. L. (2000). Effects of fish size and temperature on weakfish disturbance calls: implications for the mechanism of sound generation. *J. Exp. Biol.*, **203**, 1503-1512.
- Coombs, S. & Fay, R. R. (1993). Source level discrimination by the lateral line system of the mottled sculpin *Cottus bairdi*. *J. Acoust. Soc. Am.*, **93**, 2116-2123.
- Coombs, S. (2002). Imaging of the hydrodynamic environment by the peripheral lateral line system. *Bioacoustics*, **12**, 148-150.
- Coombs, S. (1999). Signal detection theory, lateral-line excitation patterns and prey capture behaviour of mottled sculpin. *Anim. Behav.*, **58**, 421-430.
- Crawford, J. D. (1993). Central auditory neurophysiology of a sound producing fish: the mesencephalon of *Pollimyrus isidori* (Mormyridae). *J. Comp. Physiol. A.*, **172**, 139-152.
- Crawford, J. D. & Huang, X. (1999). Communication signals and sound production mechanisms of mormyrid electric fish. *J. Exp. Biol.*, **202**, 1417-1426.
- Crawford, J. D. (1997). Feature-detecting auditory neurons in the brain of a sound-producing fish. *J. Comp. Physiol. A.*, **180**, 439-450.
- Crawford, J. D. (2002). Acoustic communication and auditory neural computation in sound-producing fish. *Bioacoustics*, **12**, 170-172.
- Crawford, J. D., Jacob, P. & Benech, V. (1997). Sound production and reproductive ecology of strongly acoustic fish in Africa: *Pollimyrus isidori*, Mormyridae. *Behaviour*, **134**, 677-725.
- Crawford, J. D., Cook, A. P. & Heberlein, A. S. (1997). Bioacoustic behavior of African fishes (Mormyridae): Potential cues for species and individual recognition in *Pollimyrus*. *J. Acoust. Soc. Am.*, **102**, 1200-1212.
- Deffenbaugh, M. (2002). Mitigating seismic impact on marine life: Current practice and future technology. *Bioacoustics*, **12**, 316-318.
- Denton, E. J. & Gray, J. A. B. (1993). Stimulation of the acoustico-lateralis system of clupeid fish by external sources and their own movements. *Philos. Trans. R. Soc. Lond. B. Biol. Sci.*, **341**, 113-127.
- Derenburger, C., Finneran, J. J. & Hastings, M. C. (1997). Comparison of the low-frequency response of the peripheral auditory organs in the goldfish and oscar. *J. Acoust. Soc. Am.*, **101**, 3163.
- Dos Santos, M. E., Modesto, T., Matos, R., Grober, M. S., Oliveira, R. F. & Canario, A. (2000). Sound production by the Lusitanian toadfish, *Halobatrachus didactylus*. *Bioacoustics*, **10**, 309-321.
- Dunning, D. J., Ross, Q. E., Geoghegan, P., Reichle, J. J., Menezes, J. K. & Watson, J. K. (1992). Alewives avoid high-frequency sound. *N. Am. J. Fish Manage.*, **12**, 407-416.
- Eaton, R. C., Casagrand, J. L. & Cummins, G. I. (2002). Neural implementation of the phase model for localising impulse sounds by the Mauthner system. *Bioacoustics*, **12**, 209-212.
- Eaton, R. C., Canfield, J. C. & Guzik, A. L. (1995). Left-right discrimination of sound onset by the Mauthner system. *Brain Behav. Evol.*, **46**, 165-179.

- Edds-Walton, P. L., Fay, R. R. & Highstein, S. M. (1999). Dendritic arbors and central projections of physiologically characterized auditory fibers from the saccule of the toadfish, *Opsanus tau*. *J. Comp. Neurol.*, **411**, 212-238.
- Edds-Walton, P. L. & Fay, R. R. (2002). Directional auditory processing in the oyster toadfish *Opsanus tau*. *Bioacoustics*, **12**, 202-204.
- Elepfandt, A. & Oed, K. (2002). Lateral line reading of hydromechanical frequency dispersal of water surface waves: Homology to cochlear mechanisms? *Bioacoustics*, **12**, 151-152.
- Engelmann, J., Kroether, S., Mogdans, J. & Bleckmann, H. (2002). Responses of primary and secondary lateral line units to dipole stimuli applied under still and running water conditions. *Bioacoustics*, **12**, 158-160.
- Engen, F. & Folstad, I. (1999). Cod courtship song: a song at the expence of dance. *Can. J. Zool.*, **77**, 542-550.
- Enger, P. S., Karlsen, H. E., Knudsen, F. R. & Sand, O. (1993). Detection and reaction of fish to infrasound. *ICES (Int. Counc. Explor. Sea) Mar. Sci. Symp.*, **196**, 108-112.
- Enger, P. S. (2002). Ultrasound perception - an old question. *Bioacoustics*, **12**, 104-106.
- Engaas, A., Loekkeberg, S., Ona, E. & Soldal, A. V. (1996). Effects of seismic shooting on local abundance and catch rates of cod (*Gadus morhua*) and haddock (*Melanogrammus aeglefinus*). *Can. J. Fish. Aquat. Sci.*, **53**, 2238-2249.
- Engaas, A. & Loekkeborg, S. (2002). Effects of seismic shooting and vessel-generated noise on fish behaviour and catch rates. *Bioacoustics*, **12**, 313-316.
- Fay, R. R. (1994). Perception of temporal acoustic patterns by the goldfish (*Carassius auratus*). *Hear. Res.*, **76**, 158-172.
- Fay, R. R. & Popper, A. N., eds. (1999). *Comparative Hearing: Fish and Amphibians*. Springer-Verlag; New York.
- Fay, R. R. & Megela-Simmons, A. M. (1999). The sense of hearing in fishes and amphibians. In *Comparative Hearing: Fish and Amphibians* (R. R. Fay and A. N. Popper, eds.). Springer-Verlag; New York, pp. 269-318.
- Fay, R. R. & Edds-Walton, P. L. (1997). Directional response properties of saccular afferents of the toadfish, *Opsanus tau*. *Hear. Res.*, **11**, 1-21.
- Fay, R. R. (2002). The sense of hearing of fishes. *Bioacoustics*, **12**, 167-169.
- Fay, R. R. (1995). Perception of spectrally and temporally complex sounds by the goldfish (*Carassius auratus*). *Hear. Res.*, **89**, 146-154.
- Fay, R. R. (1999). Sharpening of directional auditory responses in the descending octaval nucleus of the toadfish (*Opsanus tau*). *Biol. Bull.*, **197**, 240-241.
- Fay, R. R. (1998). Auditory stream segregation in goldfish (*Carassius auratus*). *Hear. Res.*, **120**, 69-76.
- Fay, R. R. & Coombs, S. L. (1992). Psychometric functions for level discrimination and the effects of signal duration in the goldfish (*Carassius auratus*): psychophysics and neurophysiology. *J. Acoust. Soc. Am.*, **92**, 189-201.
- Fay, R. R., Coombs, S. & Elepfandt, A. (2002). Response of goldfish otolithic afferents to a moving dipole sound source. *Bioacoustics*, **12**, 172-174.
- Fay, R. R. (2000). Spectral contrasts underlying auditory stream segregation in goldfish (*Carassius auratus*). *J. Assoc. Res. Otolaryngol.*, **1**, 120-128.
- Fine, M. L. & Mosca, P. J. (1989). Anatomical study of the innervation pattern of the sonic muscle of the oyster toadfish. *Brain Behav. Evol.*, **34**, 265-272.
- Fine, M. L., Friel, J. P., McElroy, D., King, C. B., Loesser, K. E. & Newton, S. (1997). Pectoral spine locking and sound production in the channel catfish *Ictalurus punctatus*. *Copeia*, **1997**, 777-790.
- Fine, M. L., McElroy, D., Rafi, J., King, C. B., Loesser, K. & Newton, S. (1995). Sound producing mechanism, handedness, and developmental changes in channel catfish sound production. *Soc. Neurosci. Abstr.*, **21**, 1451.
- Fine, M. L., McElroy, D., Rafi, J., King, C. B., Loesser, K. & Newton, S. (1996). Lateralization of pectoral stridulation sound production in the channel catfish. *Physiol. Behav.*, **60**, 753-757.
- Fine, M. L. & Mosca, P. J. (1995). A golgi and horseradish peroxidase study of the sonic motor nucleus of the oyster toadfish. *Brain Behav. Evol.*, **45**, 123-137.
- Fine, M. L. & Perini, M. A. (1994). Sound production evoked by electrical stimulation of the forebrain of the oyster toadfish. *J. Comp. Physiol.*, **174**, 173-185.
- Fine, M. L., Bernard, B. & Harris, T. M. (1993). Functional morphology of toadfish sonic muscle fibers: relationship to possible fiber division. *Can. J. Zool.*, **71**, 2262-2274.
- Fine, M., Lugli, M., Mainardi, D., Pavan, G. & Torricelli, P., eds. (1997). Underwater Bioacoustics: Behavioural, Environmental and Evolutionary Perspectives. *Marine and Freshwater Behaviour and Physiology*, **29**, 1-276.
- Fine, M. L., Malloy, K. L., King, C. B., Mitchell, S. L. & Cameron, T. M. (2001). Movement and sound

- generation by the toadfish swimbladder. *J. Comp. Physiol. A.*, **187**, 371-379.
- Fine, M. L., Pennypacker, K. R., Drummond, K. A. & Blem, C. R. (1986). Concentration and location of metabolic substrates in fast toadfish sonic muscle. *Copeia*, **4**, 910-915.
- Fine, M. L., Burns, N. M. & Harris, T. M. (1990). Ontogeny and sexual dimorphism of sonic muscles in the oyster toadfish. *Can. J. Zool.*, **86**, 1374-1381.
- Fine, M. L., Malloy, K. L., King, C. B., Mitchell, S. L. & Cameron, T. M. (2002). Sound generation by the toadfish swimbladder. *Bioacoustics*, **12**, 221-222.
- Finneran, J. J. & Hastings, M. C. (2000). A mathematical analysis of the peripheral auditory system mechanics in the goldfish (*Carassius auratus*). *J. Acoust. Soc. Am.*, **108**, 1308-1321.
- Fletcher, L. B. & Crawford, J. D. (2001). Acoustic detection by sound-producing fishes (Mormyridae): the role of gas-filled tympanic bladders. *J. Exp. Biol.*, **204**, 175-183.
- Forrest, T. G., Miller, G. L. & Zagar, J. R. (1993). Sound propagation in shallow water: implications for acoustic communication by aquatic animals. *Bioacoustics*, **4**, 259-270.
- Fuiman, L. A., Smith, M. E. & Malley, V. N. (1999). Ontogeny of routine swimming speed and startle responses in red drum, with a comparison of responses to acoustic and visual stimuli. *J. Fish Biol.*, **55**, 215-226.
- Furukawa, T. (2002). A recollection of early electrophysiological studies of goldfish hearing. *Bioacoustics*, **12**, 109-111.
- Goodson, J. L. & Bass, A. H. (2000). Forebrain peptides modulate sexually polymorphic vocal circuitry. *Nature*, **403**, 769-772.
- Goodson, J. L. & Bass, A. H. (2000). Vasotocin innervation and modulation of vocal-acoustic circuitry in the teleost *Porichthys notatus*. *J. Comp. Neurol.*, **422**, 363-379.
- Goodson, J. L. & Bass, A. H. (2002). Vocal-acoustic circuitry and descending vocal pathways in teleost fish: Convergence with terrestrial vertebrates reveals conserved traits. *J. Comp. Neurol.*, **448**, 298-322.
- Goodson, J. L. & Bass, A. H. (1999). Vasotocin modulation of fictive vocalization in the teleost *Porichthys notatus*: Anatomical and physiological evidence. *Soc. Neurosci. Abstr.*, **25**, 605.
- Goodson, J. L. & Bass, A. H. (2000). Rhythmic midbrain-evoked vocalizations is inhibited by vasoactive intestinal polypeptide in the teleost *Porichthys notatus*. *Brain Res.*, **865**, 107-111.
- Grande, T. & Braun, C. B. (2002). Evolution of the Weberian apparatus. *Bioacoustics*, **12**, 120-122.
- Grant, J. W. A., Bryant, M. J. & Soos, C. E. (1995). Operational sex ratio, mediated by synchrony of female arrival, alters the variance of male mating success in Japanese medaka. *Anim. Behav.*, **49**, 367-375.
- Guzik, A. L. & Eaton, R. C. (1994). Directional hearing by the Mauthner system. *Adv. Neural Information Processing Systems*, **6**, 574-581.
- Haddon, C. & Lewis, J. (1996). Early ear development in the embryo of the zebrafish, *Danio rerio*. *J. Comp. Neurol.*, **365**, 113-128.
- Hastings, M. C. (2002). Biomechanics of hearing in fish: From the sonic to the ultrasonic. *Bioacoustics*, **12**, 128-131.
- Hawkins, A. D. (1986). Underwater sound and fish behaviour. In *The Behaviour of Teleost Fishes* (T. J. Pitcher, ed.). Croom Helm; London, pp. 114-151.
- Hawkins, A. D., Casaretto, L., Picciulin, M. & Olsen, K. (2002). Locating spawning haddock by means of sound. *Bioacoustics*, **12**, 284-286.
- Hawkins, A. D. & Amorim, M. C. P. (2000). Spawning sounds of the male haddock, *Melanogrammus aeglefinus*. *Environ. Biol. Fishes*, **59**, 29-41.
- Hawkins, A. D. (1993). Underwater sound and fish behaviour. In *Fish and Fisheries Series. 7. Behaviour of Teleost Fishes*, 2. (T. J. Pitcher, ed). Chapman and Hall Ltd.; London, pp. 129-169.
- Henglmueller, S. M. & Ladich, F. (1997). Ontogeny of agonistic behaviour and vocalization in the croaking gourami. *Adv. Ethol.*, **32**, 100.
- Henglmueller, S. M. & Ladich, F. (1997). Ontogeny of agonistic behaviour and vocalization in the croaking gourami *Trichopsis vittata* (Teleostei). *Bioacoustics*, **8**, 266-267.
- Henglmueller, S. M. & Ladich, F. (1999). Development of agonistic behaviour and vocalization in croaking gouramis. *J. Fish Biol.*, **54**, 380-395.
- Higgs, D. M. (2002). Development of the fish auditory system: How do changes in auditory structure affect function? *Bioacoustics*, **12**, 180-183.
- Holt, S. A. (2002). Intra- and inter-day variability in sound production by red drum (Sciaenidae) at a spawning site. *Bioacoustics*, **12**, 227-229.
- Johnson, D. L. (1998). The acoustic signal and associated behaviour of the longear sunfish *Lepomis megalotis*. *Bioacoustics*, **9**, 150.
- Kenyon, T. N., Ladich, F. & Yan, H. Y. (1998). A comparative study of hearing ability in fishes: the auditory brainstem response approach. *J. Comp. Physiol. A.*, **182**, 307-318.
- Kenyon, T. N., Ladich, F. & Yan, H. Y. (1998). A comparative study of hearing ability in fishes: the auditory brainstem response approach. *J. Comp. Physiol. A.*, **182**, 307-318.

- Kenyon, T. N. (1994). The significance of sound interception to males of the bicolor damselfish, *Pomacentrus partitus*, during courtship. *Env. Biol. Fish.*, **40**, 391-405.
- Klimley, A. P. & Beavers, S. C. (1998). Playback of acoustic thermometry of ocean climate (ATOC)-like signal to bony fishes to evaluate phonotaxis. *J. Acoust. Soc. Am.*, **104**, 2506-2510.
- Knapp, R., Marchaterre, M. A. & Bass, A. H. (1999). Early development of the motor and premotor circuitry of a sexually dimorphic vocal pathway in a teleost fish. *J. Neurobiol.*, **38**, 475-490.
- Knudsen, F. R., Enger, P. S. & Sand, O. (1994). Avoidance responses to low frequency sound in downstream migrating Atlantic salmon smolt, *Salmo salar*. *J. Fish Biol.*, **45**, 227-233.
- Knudsen, F. R., Schreck, C. B., Knapp, S. M., Enger, P. S. & Sand, O. (1997). Infrasound produces flight and avoidance responses in Pacific juvenile salmonids. *J. Fish Biol.*, **51**, 824-829.
- Kozloski, J. & Crawford, J. D. (2000). Transformations of an auditory temporal code in the medulla of a sound-producing fish. *J. Neurosci.*, **20**, 2400-2408.
- Kozloski, J. & Crawford, J. D. (1998). Functional neuroanatomy of auditory pathways in the sound-producing fish *Pollimyrus*. *J. Comp. Neurol.*, **401**, 227-252.
- Kratochvil, H. & Ladich, F. (2000). Auditory role of lateral trunk channels in cobitid fishes. *J. Comp. Physiol. A.*, **186**, 279-285.
- Kaats, I. M. (1999). *The behavioural and morphological diversity of acoustic communication systems in a clade of tropical catfishes (Pisces: Siluriformes)*. Unpubl. Ph.D. dissertation. SUNY College of Environmental Science and Forestry; Syracuse, N.Y.
- Kaatz, I. M. (1995). The evolution of sound signal design in arioid catfishes. *Am. Zool.*, **35**, 16A.
- Kaatz, I. M. (2002). Multiple sound-producing mechanisms in teleost fishes and hypotheses regarding their behavioural significance. *Bioacoustics*, **12**, 230-233.
- Ladich, F., Marchaterre, M., Goldstein, L. & Bass, A. H. (1995). Vocal-acoustic pathways in synodontid and ariid catfish. *Soc. Neurosci. Abstr.*, **21**, 1451.
- Ladich, F. & Fine, M. L. (1994). Localization of swimbladder and pectoral motoneurons involved in sound production in pimelodid catfish. *Brain Behav. Evol.*, **44**, 86-100.
- Ladich, F. (1997). Comparative analysis of swimbladder (drumming) and pectoral (stridulation) sounds in three families of catfishes. *Bioacoustics*, **8**, 185-208.
- Ladich, F. (1997). Agonistic behaviour and significance of sounds in vocalizing fish. *Mar. Fresh. Physiol. Behav.*, **29**, 87-108.
- Ladich, F. (2000). Acoustic communication and the evolution of hearing in fishes. *Phil. Trans. R. Soc. Lond. B.*, **355**, 1285-1288.
- Ladich, F. (2001). Sound-generating and -detecting motor system in catfish: design of swimbladder muscles in doradids and pimelodids. *Anat. Rec.*, **263**, 297-306.
- Ladich, F. (2002). Did auditory sensitivity and sound production evolve independently in fishes? *Bioacoustics*, **12**, 176-180.
- Ladich, F. & Popper, A. N. (2001). Comparison of the inner ear ultrastructure between teleost fishes using different channels for communication. *Hear. Res.*, **154**, 62-72.
- Ladich, F. & Yan, H. Y. (1998). Correlation between auditory sensitivity and vocalization in anabantoid fishes. *J. Comp. Physiol. A.*, **182**, 737-746.
- Ladich, F. & Yan, H. Y. (1998). Correlation between vocalization and auditory sensitivity in labyrinth fishes. *Bioacoustics*, **9**, 151.
- Ladich, F. & Bass, H. (1998). Sonic/vocal motor pathways in catfishes: Comparisons with other Teleosts. *Brain Behav. Evol.*, **51**, 315-330.
- Ladich, F. (1999). Did auditory sensitivity and vocalization evolve independently in otophysan fishes? *Brain Behav. Evol.*, **53**, 288-304.
- Ladich, F. & Fine, M. L. (1992). Localization of pectoral fin motoneurons (sonic and hovering) in the croaking gourami *Trichopsis vittatus*. *Brain Behav. Ecol.*, **39**, 1-7.
- Ladich, F. (1990). Vocalization during agonistic behaviour in *Cottus gobio* L. (Cottidae): an acoustic threat display. *Ethology*, **84**, 193-201.
- Ladich, F. & Bass, A. H. (1996). Vocal pathways in catfish: comparison with other vocal teleosts. *Soc. Neurosci. Abstr.*, **22**, 447.
- Ladich, F. (1998). Sound characteristics and outcome of contests in male croaking gouramis (Teleostei). *Ethology*, **104**, 517-529.
- Ladich, F. & Bass, A. H. (1996). Sonic/vocal-acousticolateralis pathways in teleost fishes: a transneuronal biocytin study in mochokid catfish. *J. Comp. Physiol.*, **374**, 493-505.
- Lagardere, J. P., Begout, M. L., Lafaye, J. Y. & Villotte, J. P. (1994). Influence of wind-produced noise on orientation in the sole (*Solea solea*). *Can. J. Fish. Aquat. Sci.*, **51**, 1258-1264.
- Lagardere, J. P. & Villotte, J. P. (1990). Particular performance of a flat fish (*Solea solea* L.) in low frequency hearing. *Colloque de Physique*, **C-2**, 631-634 (French).

- Laming, P. R. & Carroll, P. (1994). Telencephalic and midbrain control of acoustic responsiveness in the goldfish (*Carassius auratus*). *Comp. Biochem. Physiol. A.*, **107A**, 469-472.
- Lindholm, M. M. & Bass, A. H. (1993). Early events in myofibrillogenesis and innervation of skeletal sound generating muscle in a teleost fish. *J. Morphol.*, **216**, 225-239.
- Lobel, P. S. (1996). Spawning sound of the trunkfish, *Ostracion meleagris* (Ostraciidae). *Biol. Bull.*, **191**, 308-309.
- Lobel, P. S. & Kerr, L. M. (1999). Courtship sounds of the Pacific damselfish, *Abudefduf sordidus* (Pomacentridae). *Biol. Bull.*, **197**, 242-244.
- Lobel, P. S. (1991). Sounds produced by spawning fishes. *Environ. Biol. Fish.*, **33**, 351-358.
- Lobel, P. S. (2001). Acoustic behaviour of cichlid fishes. *J. Aquacult. Aquatic Sci.*, **9**, 167-186.
- Lobel, P. S. (2001). Fish bioacoustics and behaviour: Passive acoustic detection and the application of a closed-circuit rebreather for field study. *Mar. Tech. Soc. J.*, **35**.
- Lobel, P. S. (1998). Possible species specific courtship sounds by two sympatric cichlid fishes in Lake Malawi, Africa. *Envir. Biol. Fishes*, **52**, 443-452.
- Lobel, P. S. & Mann, D. A. (1995). Spawning sounds of the damselfish, *Dascyllus albisella* (Pomacentridae), and relationship to male size. *Bioacoustics*, **6**, 187-198.
- Lobel, P. S. (2002). Diversity of fish spawning sounds and the application of passive acoustic monitoring. *Bioacoustics*, **12**, 286-289.
- Lokkeborg, S. & Soldal, A. V. (1993). The influence of seismic exploration with airguns on cod *Gadus morhua* behaviour and catch rates. *ICES (Int. Counc. Explor. Sea) Mar. Sci. Symp.*, **196**, 62-67.
- Lu, Z., Xu, Z. & Stadler, J. H. (2002). Roles of the saccule in directional hearing. *Bioacoustics*, **12**, 205-207.
- Lu, Z. & Fay, R. R. (1994). Acoustic response properties of single units in the torus semicircularis of the goldfish (*Carassius auratus*). *J. Comp. Physiol.*, **123**, 33-48.
- Lu, Z. & Fay, R. R. (1993). Acoustic response properties of single units in the torus semicircularis of the goldfish *Carassius auratus*. *J. Comp. Physiol. A.*, **173**, 33-48.
- Lu, Z., Song, J. & Popper, A. N. (1998). Encoding of acoustic directional information by saccular afferents of the sleeper goby, *Dormitator latifrons*. *J. Comp. Physiol. A.*, **182**, 805-815.
- Lu, Z. & Popper, A. N. (2001). Neural response directionality correlates of hair cell orientation in a teleost fish. *J. Comp. Physiol. A.*, **187**, 453-465.
- Luczkovich, J. J., Sprague, M. W., Johnson, S. E. & Pullinger, R. C. (1999). Delimiting spawning areas of weakfish *Cynoscion regalis* (Family Sciaenidae) in Pamlico Sound, North Carolina, using passive hydroacoustic surveys. *Bioacoustics*, **10**, 143-160.
- Luczkovich, J. J., Daniel III, H. J., Hutchinson, M., Jenkins, T., Johnson, S. E., Pullinger, R. C. & Sprague, M. W. (2000). Sounds of sex and death in the sea: Bottlenose dolphin whistles suppress mating choruses of silver perch. *Bioacoustics*, **10**, 323-334.
- Luczkovich, J. J. & Sprague, M. W. (2002). Using passive acoustics to monitor estuarine fish populations. *Bioacoustics*, **12**, 289-291.
- Lugli, M. & Torricelli, P. (1999). Prespawning sound production in Mediterranean sand-gobies. *J. Fish Biol.*, **54**, 691-694.
- Lugli, M. (2002). Environmental constraints on the acoustic communication system of stream gobies. *Bioacoustics*, **12**, 252-255.
- Lugli, M., Pavan, G. & Torricelli, P. (1996). The importance of breeding vocalizations for mate attraction in a freshwater goby with a composite sound repertoire. *Ethol. Ecol. Evol.*, **8**, 343-351.
- Lugli, M., Pavan, G., Torricelli, P. & Bobbio, L. (1995). Spawning vocalizations in male freshwater gobiids (Pisces, Gobiidae). *Env. Biol. Fishes*, **43**, 219-231.
- Lugli, M. (1997). Repeatability and effects of temperature and individual size on components of the breeding sounds emitted by male *Padogobius martensii* (Pisces, Gobiidae). *Bioacoustics*, **8**, 267-268.
- Lugli, M. (1997). Response of male goby, *Padogobius martensii*, to aggressive sound playback following pre-experimental visual stimulation. *Behaviour*, **134**, 1175-1188.
- Lugli, M., Torricelli, P., Pavan, G. & Miller, P. J. (1996). Breeding sounds of male *Padogobius nigricans* with suggestions for further evolutionary study of vocal behaviour in gobioid fishes. *J. Fish Biol.*, **49**, 648-657.
- Lychakov, D. V. & Rebane, Y. T. (2002). Otoliths and modelling ear function. *Bioacoustics*, **12**, 125-128.
- Ma, W.-L. D. & Fay, R. R. (2002). Neural representations of acoustic particle motion direction in the auditory midbrain of the goldfish *Carassius auratus*. *Bioacoustics*, **12**, 207-209.
- Maisey, J. G. (2001). Remarks on the inner ear of elasmobranchs and its interpretation from skeletal labyrinth morphology. *J. Morphol.*, **250**, 236-264.
- Mann, D. A. & Lobel, P. S. (1995). Passive acoustic detection of sounds produced by the damselfish, *Dascyllus albisella* (Pomacentridae). *Bioacoustics*, **6**, 199-213.
- Mann, D. A. & Lobel, P. S. (1998). Acoustic behavior of the damselfish *Dascyllus albisella*: Behavioral and

- geographic variation. *Environ. Biol. Fishes*, **51**, 421-428.
- Mann, D. A., Higgs, D. M., Tavolga, W. N., Souza, M. J. & Popper, A. N. (2001). Ultrasound detection by clupeiform fishes. *J. Acoust. Soc. Am.*, **109**, 3048-3054.
- Mann, D. A., Lu, Z. & Popper, A. N. (1997). A clupeid fish can detect ultrasound. *Nature*, **389**, 341.
- Mann, D. A., Zhongmin, L., Hastings, M. C. & Popper, A. N. (1998). Detection of ultrasonic tones and simulated dolphin echolocation clicks by a teleost fish, the American shad (*Alosa sapidissima*). *J. Acoust. Soc. Am.*, **104**, 562-568.
- Mann, D. A., Bowers-Altmann, J. & Rountree, R. A. (1997). Sounds produced by the striped cusk-eel *Ophidion marginatum* (Ophidiidae) during courtship and spawning. *Copeia*, **1997**, 610-612.
- Mann, D. A., Higgs, D. M., Tavolga, W. N. & Popper, A. N. (2002). Ultrasound detection by clupeiform fishes. *Bioacoustics*, **12**, 188-191.
- Mann, D. A. & Lobel, P. S. (1997). Propagation of damselfish (Pomacentridae) courtship sounds. *J. Acoust. Soc. Am.*, **101**, 3783-3791.
- Marchaterre, M. A., Horvath, B. J., Bodnar, D. A. & Bass, A. H. (1995). Androgen-sensitive, brainstem vocal pacemaker. *Soc. Neurosci. Abstr.*, **21**, 39.
- Marchaterre, M., Lindholm, M. & Bass, A. (1992). Ontogeny of motoneurons, acetylcholine and muscle fibers in the vocal motor circuit of a teleost fish. *Soc. Neurosci. Abstr.*, **18**, 1303.
- Marvit, P. & Crawford, J. D. (2000). Auditory discrimination in a sound-producing electric fish (*Pollimyrus*): tone frequency and click-rate difference detection. *J. Acoust. Soc. Am.*, **108**, 1819-1825.
- Marvit, P. & Crawford, J. D. (2000). Auditory thresholds in a sound-producing electric fish (*Pollimyrus*): behavioral measurements of sensitivity to tones and click trains. *J. Acoust. Soc. Am.*, **107**, 2209-2214.
- McCormick, C. A. (1992). Evolution of central auditory pathways in amniotes. In *The Evolutionary Biology of Hearing* (D. Webster, R. Fay & A. Popper, eds.). Springer; New York.
- McCormick, C. A. (2002). Variations on a vertebrate theme: Central anatomy of the auditory system in fish. *Bioacoustics*, **12**, 134-137.
- McKibben, J. R. & Bass, A. H. (1998). Behavioral assessment of acoustic parameters relevant to signal recognition and preference in a vocal fish. *J. Acoust. Soc. Am.*, **104**, 3520-3533.
- McKibben, J. R. & Bass, A. H. (2001). Peripheral encoding of behaviorally relevant acoustic signals in a vocal fish: Harmonic and beat stimuli. *J. Comp. Physiol. A.*, **187**, 271-285.
- McKibben, J. R. & Bass, A. H. (1999). Peripheral encoding of behaviorally relevant acoustic signals in a vocal fish: single tones. *J. Comp. Physiol. A.*, **184**, 563-576.
- Mensinger, A. F. & Deffenbaugh, M. (2002). Acoustical neural telemetry from free-swimming fish. *Bioacoustics*, **12**, 333-334.
- Midling, K., Soldal, A. V., Fosseidengen, J. E. & Oevredal, J. T. (2002). Calls of the Atlantic cod: Does captivity restrict their vocal repertoire? *Bioacoustics*, **12**, 233-235.
- Mitson, R. B. (1993). Underwater noise radiated by research vessels. *ICES (Int. Counc. Explor. Sea) Mar. Sci. Symp.*, **196**, 147-152.
- Myrberg, Jr., A. A. (1990). The effects of man-made noise on the behavior of marine animals. *Environment International*, **16**, 575-586.
- Myrberg, A. A. Jr. (1997). Sound production by a coral reef fish (*Pomacentrus partitus*): Evidence for a vocal, territorial keep-out signal. *Bull. Mar. Sci.*, **60**, 1017-1025.
- Myrberg, A. A. Jr., Ha, S. J. & Shambrott, M. J. (1993). The sounds of bicolor damselfish (*Pomacentrus partitus*): predictors of body size and a spectral basis for individual recognition and assessment. *J. Acoust. Soc. Am.*, **94**, 3067-3070.
- Myrberg, Jr., A. A. & Stadler, J. H. (2002). The significance of the sounds by male gobies (Gobiidae) to conspecific females: Similar findings to a study made long ago. *Bioacoustics*, **12**, 255-257.
- Myrberg, Jr., A. A. (2002). Fish bioacoustics and behaviour. *Bioacoustics*, **12**, 107-109.
- Myrberg, A. A., Jr. (1996). Fish bioacoustics: Serendipity in research. *Bioacoustics*, **7**, 143-150.
- Nestler, J. M., Ploskey, G. R., Pickens, J., Menezes, J. & Schilt, C. (1992). Responses of blueback herring to high-frequency sound and implications for reducing entrainment at hydropower dams. *N. Am. J. Fish Manage.*, **12**, 667-683.
- Netten, S. M. van & Wiersinga-Post, J. E. C. (2002). Matched peripheral filtering in the lateral line organ and relation to temperature. *Bioacoustics*, **12**, 153-156.
- Nordeide, J. T. & Kjellsby, E. (1999). Sound from spawning cod at their spawning grounds. *ICES J. Mar. Sci.*, **56**, 326-332.
- Nystuen, J. A. & Medwin, H. (1995). Underwater sound produced by rainfall: Secondary splashes of aerosols. *J. Acoust. Soc. Am.*, **97**, 1606-1613.
- Oda, Y., Kawasaki, K., Morita, M., Korn, H. & Matsui, H. (1998). Inhibitory long-term potentiation underlies auditory conditioning of goldfish escape behaviour. *Nature*, **394**, 182-185.
- Picciulin, M., Costantini, M., Hawkins, A. D. & Ferrero, E. A. (2002). Sound emissions of the Mediterranean

- damselfish *Chromis chromis* (Pomacentridae): *Bioacoustics*, **12**, 236-238.
- Plachta, D. T. T. & Popper, A. N. (2002). Neuronal and behavioural responses of American shad *Alosa sapidissima* to ultrasound stimuli. *Bioacoustics*, **12**, 191-193.
- Platt, C. (1993). Zebrafish inner ear sensory surfaces are similar to those in goldfish. *Hear. Res.*, **65**, 133-140.
- Popper, A. N. & Fay, R. R. (1993). Sound detection and processing by fish: critical review and major research questions. *Brain Behav. Evol.*, **41**, 14-38.
- Popper, A. N. & Edds-Walton, P. L. (1995). Structural diversity in the inner ear of teleost fishes: Implications for connections to the Mauthner cell. *Brain Behav. Evol.*, **46**, 131-140.
- Popper, A. N. & Hoxter, B. (1990). Growth of a fish ear: II. Location of newly proliferated sensory hair cells in the saccular epithelium of *Astronotus ocellatus*. *Hear. Res.*, **45**, 33-40.
- Popper, A. N. (2002). Structure-function relationships in the ears of fishes. *Bioacoustics*, **12**, 115-118.
- Popper, A. N. & Carlson, T. J. (1998). Application of the use of sound to control fish behaviour. *Trans. Am. Fish. Soc.*, **127**, 673-707.
- Popper, A. N., Balletto, J., Strait, K., Winchell, F., Wells, A. W. & Vaskis, M. (2002). Preliminary evidence for the use of sound to decrease losses of aquatic organisms at a power plant cooling water intake. *Bioacoustics*, **12**, 306-307.
- Popper, A. N., Webb, J. F. & Fay, R. R. (2002). Fish bioacoustics: Introduction. *Bioacoustics*, **12**, 99-101.
- Popper, A. N. & Fay, R. R. (1999). The auditory periphery in fishes. In *Comparative Hearing: Fish and Amphibians* (R. R. Fay and A. N. Popper, eds.). Springer-Verlag; New York, pp. 43-100.
- Presson, J. C., Smith, T. & Mentz, L. (1995). Proliferating hair cell precursors in the ear of a postembryonic fish are replaced after elimination by cytosine arabinoside. *J. Neurobiol.*, **26**, 579-584.
- Pruzsinszky, I. & Ladich, F. (1997). Sound production and reproductive behaviour of *Corydoras paleatus*. *Adv. Ethol.*, **32**, 129.
- Pruzsinszky, I. & Ladich, F. (1998). Sound production and reproductive behaviour of the armoured catfish *Corydoras paleatus* (Callichthyidae). *Environ. Biol. Fishes*, **53**, 183-191.
- Pruzskinzky, I. & Ladich, F. (1997). Sound production and reproductive behaviour in the armoured catfish *Corydoras paleatus* (Callichthyidae). *Bioacoustics*, **8**, 266.
- Ramcharitar, J. (2002). Unique ear structure of silver perch *Bairdiella chrysoura*. *Bioacoustics*, **12**, 122-124.
- Ripley, J. L., Lobel, P. S. & Yan, H. Y. (2002). Correlation of sound production with hearing sensitivity in the Lake Malawi cichlid *Tramitichromis intermedius*. *Bioacoustics*, **12**, 238-240.
- Rogers, P. H., Popper, A. N., Hastings, M. C. & Saidel, W. M. (1988). Processing of acoustic signals in the auditory system of bony fish. *J. Acoust. Soc. Am.*, **83**, 338-349.
- Ross, Q. E., Dunning, D. J., Thorne, R., Menezes, J. K., Tiller, G. W. & Watson, J. K. (1996). Response of alewives to high-frequency sound at a power plant intake on Lake Ontario. *N. Am. J. Fish. Man.*, **16**, 548-559.
- Rountree, R. A., Perkins, P. J., Kenney, R. D. & Hinga, K. R. (2002). Sounds of western North Atlantic fishes - data rescue. *Bioacoustics*, **12**, 242-244.
- Rountree, R. A. & Bowers-Altman, J. (2002). Soniferous behaviour of the striped cusk-eel *Ophidion marginatum*. *Bioacoustics*, **12**, 240-242.
- Sand, O. & Karlsen, H. E. (2000). Detection of infrasound and linear acceleration in fish. *Phil. Trans. R. Soc. Lond. B.*, **355**, 1295-1298.
- Sand, O. (2002). Sound source localisation: An historical assessment. *Bioacoustics*, **12**, 199-201.
- Santiago, J. A. & Castro, J. J. (1997). Acoustic behaviour of *Abudefduf luridus*. *J. Fish Biol.*, **51**, 952-959.
- Satou, M., Shiraishi, A., Matsushima, T. & Okumoto, N. (1991). Vibrational communication during spawning behaviour in the hime salmon, landlocked red salmon *Oncorhynchus nerka*. *J. Comp. Physiol. A.*, **168**, 417-428.
- Saucier, M. H., Baltz, D. M. & Roumillat, W. A. (1992). Hydrophone identification of spawning sites of spotted seatrout *Cynoscion nebulosus* (Osteichthyes, Sciaenidae) near Charleston, South Carolina. *Northeast Gulf Sci.*, **12**, 141-145.
- Schellart, N. A. M. & Popper, A. N. (1992). Functional aspects of the evolution of the auditory system of actinopterygian fish. In *Comparative Evolutionary Biology of Hearing* (D. B. Webster, R. R. Fay & A. N. Popper, eds.). Springer; New York, pp. 295-322.
- Schilt, C. R. & Escher, C. W. (2002). Potential means for ultrasound source localisation in herring. *Bioacoustics*, **12**, 193-195.
- Schilt, C. R. (2002). Natural history in an unnatural environment: Can we help fish to help themselves? *Bioacoustics*, **12**, 310-313.
- Schlänger, B. A., Greco, C. & Bass, A. H. (1999). Aromatase activity in the hindbrain vocal control region of a teleost fish: Divergence among males with alternative reproductive tactics. *Proc. Roy. Soc. Lond. B.*, **266**, 131-136.
- Schmalz, W., Siegesmund, M., Thuermer, K., Kranawettreiser, J. & Hack, H.-P. (2002). A new method to

- investigate the downstream migration of fishes within a hydropower plant area in a Middle European river - a possibility to evaluate the effectiveness of behaviour barriers. *Bioacoustics*, **12**, 308-310.
- Scholik, A. R. & Yan, H. Y. (2002). Effects of noise on auditory sensitivity of fishes. *Bioacoustics*, **12**, 186-188.
- Scholik, A. R., Hastings, M. C. & Johnson, D. (1998). A behavioral study of the response of the gizzard shad *Dorosoma cepedianum* to high-frequency sounds. *Bioacoustics*, **9**, 163.
- Scholik, A. R. & Yan, H. Y. (2001). The effects of underwater noise on auditory sensitivity of a cyprinid fish. *Hear. Res.*, **152**, 17-24.
- Schuster, S. (1986). Studies on the bioacoustics of *Colisa lalia* (Perciformes, Belontiidae). *Zool. Beitr.*, **29**, 295-306 (German).
- Sisneros, J. A., Marchaterre, M. A. & Bass, A. H. (2002). Otolithic endorgan projections of the inner ear in a vocal fish. *Bioacoustics*, **12**, 137-139.
- Sparkes, T. C., Prater, C., Akamatsu, T. & Yan, H. Y. (2002). Acoustic signals and aggressive conflicts in the skunk loach *Botia morleti*: Integrating sensory and behavioural approaches. *Bioacoustics*, **12**, 257-259.
- Sprague, M. W. (2000). The single sonic muscle twitch model for the sound-production mechanism in the weakfish, *Cynoscion regalis*. *J. Acoust. Soc. Am.*, **108**, 2430-2437.
- Sprague, M. W. (2002). The single sonic muscle twitch model for sciaenid sound production. *Bioacoustics*, **12**, 225-227.
- Sprague, M. W. & Luczkovich, J. J. (2002). Do striped cusk eels, *Ophidion marginatum* (Ophidiidae) produce the 'chatter' sound attributed to weakfish, *Cynoscion regalis* (Sciaenidae)? *Copeia*, **2001**, 854-859.
- Sprague, M. W., Luczkovich, J. J., Pullinger, R. C., Johnson, S. E., Jenkins, T. & Daniel, H. J. III (2000). Using spectral analysis to identify drumming sounds of some North Carolina fishes in the family Sciaenidae. *J. Elisha Mitchell Soc.*, **116**, 124-145.
- Svellingen, I., Totland, B. & Oevredal, J. T. (2002). A remote-controlled instrument platform for fish behaviour studies and sound monitoring. *Bioacoustics*, **12**, 335-336.
- Tavolga, W. N. (1996). How I got started in bioacoustics. *Bioacoustics*, **6**, 281-286.
- Tavolga, W. N. (2002). Fish bioacoustics: A personal history. *Bioacoustics*, **12**, 101-104.
- Taylor, M. A. (1995). The multiple lateral lines of giant rhizodont fishes: passive 3-D location of prey in muddy swamps? *Bioacoustics*, **6**, 216-217.
- Tolimieri, N., Haine, O., Montgomery, J. C. & Jeffs, A. (2002). Ambient sound as a navigational cue for larval reef fish. *Bioacoustics*, **12**, 214-217.
- Torricelli, P., Miller, P. J. & Lugli, M. (1997). Sound emission by Italian gobiids: an evolutionary outlook. *Adv. Ethol.*, **32**, 282.
- Vaquette, C. (1996). Comparative analysis of aggressive behaviour in males of *Colisa chuna* and *C. lalia* (Anabantoidei, Perciformes) with special reference to sound production and body colouration. M.S. thesis. University of Vienna.
- Walsh, P. J., Bedolla, C. & Mommsen, T. P. (1989). Scaling and sex-related differences in toadfish (*Opsanus beta*) sonic muscle activities. *Bull. Mar. Sci.*, **45**, 68-75.
- Walsh, P. J., Mommsen, T. P. & Bass, A. H. (1995). Biochemical and molecular aspects of singing in batrachoidid fishes. In *Biochemistry and Molecular Biology of Fishes*, Vol. 4 (P. W. Hochachka & T. P. Mommsen, eds.). Elsevier Science, B. V.; Amsterdam, pp. 279-289.
- Webb, J. F. (2002). Functional evolution of the lateral line system: Implications for fish bioacoustics. *Bioacoustics*, **12**, 145-147.
- Weeg, M. S. & Bass, A. H. (2002). Structural and functional evidence for acoustic-lateral line interactions in a vocal fish. *Bioacoustics*, **12**, 161-163.
- Weeg, M. S. & Bass, A. H. (2000). Frequency response characteristics of the posterior lateral line nerve in a vocal fish. *Soc. Neurosci. Abstr.*, **26**.
- Weeg, M. S. & Bass, A. H. (2000). Central lateral line pathways in a vocalizing fish. *J. Comp. Neurol.*, **418**, 41-64.
- Whang, A. & Janssen, J. (1994). Sound production through the substrate during reproduction in the mottled sculpin, *Cottus bairdi* (Cottidae). *Env. Biol. Fishes*, **40**, 141-148.
- Wiersinga-Post, J. E. C. & van Netten, S. M. (2000). Temperature dependency of cupular mechanics and hair cell frequency in the fish canal lateral line organ. *J. Comp. Physiol. A*, **186**, 949-956.
- Wiersinga-Post, J. E. C. & van Netten, S. M. (2002). Calcium influences the mechanical properties of hair cell bundles. *Bioacoustics*, **12**, 156-158.
- Wong, G. S. K. & Zhu, S. (1995). Speed of sound in seawater as a function of salinity, temperature, and pressure. *J. Acoust. Soc. Am.*, **97**, 1732-1736.
- Wood, M., Casaretto, L., Horgan, G. & Hawkins, A. D. (2002). Discriminating between fish sounds - a wavelet approach. *Bioacoustics*, **12**, 337-339.
- Wubbels, R. J. & Schellart, N. A. M. (1998). Neuronal encoding of sound direction in the auditory midbrain of

- the rainbow trout. *J. Neurophysiol.*, **77**, 3060-3074.
- Wubbelt, R. J. & Schellart, N. A. M. (1998). An analysis of the relationship between the response characteristics and topography of directional and non-directional auditory neurons in the torus semicircularis of the rainbow trout. *J. Exp. Biol.*, **201**, 1947-1958.
- Wysocki, L. E. & Ladich, F. (2001). The ontogenetic development of auditory sensitivity, vocalization and communication in the labyrinth fish *Trichopsis vittata*. *J. Comp. Physiol. A.*, **187**, 177-187.
- Wysocki, L. E. & Ladich, F. (2001). Ontogenetic development of auditory sensitivity and vocalization in croaking gouramis. *Soc. Neurosci. Abstr.*, **26**.
- Wysocki, L. E. & Ladich, F. (2002). Ontogeny of hearing and sound production in fishes. *Bioacoustics*, **12**, 183-185.
- Yan, H. Y., Fine, M. L., Horn, N. S. & Colon, W. E. (2000). Variability in the role of the gasbladder in fish audition. *J. Comp. Physiol. A.*, **186**, 435-445.
- Yan, H. Y., Kenyon, T. N. & Ladich, F. (1997). Use of auditory brainstem response (ABR) for fish auditory sensitivity study. *Bioacoustics*, **8**, 251.
- Yan, H. Y. (1998). Stories from receivers' end - How do suprabranchial chambers modulate hearing abilities of sound producing anabantoid fishes? *Bioacoustics*, **9**, 159.
- Yan, H. Y. (1998). Auditory role of the suprabranchial chamber in gourami fish. *J. Comp. Physiol. A.*, **183**, 325-333.
- Yan, H. Y. & Popper, A. N. (1993). Acoustic intensity discrimination by the cichlid fish *Astronotus ocellatus* (Cuvier). *J. Comp. Physiol. A.*, **173**, 347-351.
- Yan, H. Y., Saidel, W. M., Chang, J., Presson, J. C. & Popper, A. N. (1991). Sensory hair cells of the fish ear: evidence of multiple types based on ototoxicity sensitivity. *Proc. Roy. Soc. Ser. B.*, **245**, 133-138.
- Yan, H. Y. (2002). The use of acoustically evoked potentials for the study of hearing in fishes. *Bioacoustics*, **12**, 325-328.
- Yan, H. Y. & Curtsinger, W. S. (2000). The otic gasbladder as an ancillary auditory structure in a mormyrid fish. *J. Comp. Physiol. A.*, **186**, 595-602.
- Yoca, M., Rogers, P. H. & Baxter, K. E. (2002). Is the fish ear an auditory retina? Steady streaming in the otolith-macula gap. *Bioacoustics*, **12**, 131-134.
- Young, I. S. & Rome, L. C. (2001). Mutually exclusive muscle designs: the power output of the locomotory and sonic muscles of the oyster toadfish (*Opsanus tau*). *Proc. Roy. Soc. Lond. B.*, **268**, 1965-1970.
- Zupanc, G. K. H. & Maler, E. (1993). Evoked chirping in the weakly electric fish *Apteronotus leptorhynchus*: A quantitative biophysical analysis. *Can. J. Zool.*, **71**, 2301-2310.