

Principles of Animal Communication, Second Edition
Jack W. Bradbury and Sandra L. Vehrencamp

Chapter 2: Sound and Sound Signal Production

Literature Cited

- 1 Aicher, B. and J. Tautz. 1990. Vibrational communication in the fiddler crab, *Uca pugilator*. 1. Signal transmission through the substratum. *Journal of Comparative Physiology A-Sensory Neural and Behavioral Physiology* 166: 345–353.
- 2 Alcock, J. and W. J. Bailey. 1995. Acoustical communication and the mating system of the Australian whistling moth *Hecatesia exultans* (Noctuidae, Agaristinae). *Journal of Zoology* 237: 337–352.
- 3 Allen, J. A., H. Lang, and J. P. Chapin. 1917. The American Museum Congo expedition collection of bats. *Bulletins of the American Museum of Natural History* 37: 405–563.
- 4 Alonso-Pimentel, H., H. G. Spangler, R. Rogers, and D. R. Papaj. 2000. Acoustic component and social context of the wing display of the walnut fly *Rhagoletis juglandis*. *Journal of Insect Behavior* 13: 511–524.
- 5 Ames, P. L. 1971. The morphology of the syrinx in passerine birds. *Bull. Peabody Mus. Nat. Hist.* 37: 1–194.
- 6 Arcadi, A. C., D. Robert, and C. Boesch. 1998. Buttress drumming by wild chimpanzees: Temporal patterning, phrase integration into loud calls, and preliminary evidence for individual distinctiveness. *Primates* 39: 505–518.
- 7 Arcadi, A. C., D. Robert, and F. Mugurusi. 2004. A comparison of buttress drumming by male chimpanzees from two populations. *Primates* 45: 135–139.
- 8 Archibald, H. L. 1974. Directional differences in the sound intensity of ruffed grouse drumming. *The Auk* 91: 517–521.
- 9 Aroyan, J. L., M. A. McDonald, J. C. Webb, J. A. Hildebrand, D. Clark, and J. S. Reidenbert. 2000. Acoustic models of sound production and propagation. In *Hearing in Whales and Dolphins* (W. W. L. Au, A. N. Popper, and R. R. Fay, eds.), pp. 409–469. New York: Springer Verlag.
- 10 Au, W. W. L. and K. Banks. 1998. The acoustics of the snapping shrimp *Synalpheus parneomeris* in Kaneohe Bay. *Journal of the Acoustical Society of America* 103: 41–47.

- 11 Au, W. W. L., R. A. Kastelein, K. J. Benoit-Bird, T. W. Cranford, and M. F. McKenna. 2006. Acoustic radiation from the head of echolocating harbor porpoises (*Phocoena phocoena*). *Journal of Experimental Biology* 209: 2726–2733.
- 12 Aubin, T., P. Jouventin, and C. Hildebrand. 2000. Penguins use the two-voice system to recognize each other. *Proceedings of the Royal Society of London Series B-Biological Sciences* 267: 1081–1087.
- 13 Bailey, W. J. and J. D. Roberts. 1981. The bioacoustics of the burrowing frog *Heleioporus* (Leptodactylidae). *Journal of Natural History* 15: 259–288.
- 14 Bailey, W. J. 1991. *Acoustic Behaviour of Insects: An Evolutionary Perspective*. London: Chapman Hall.
- 15 Bailey, W. J. 2003. Insect duets: underlying mechanisms and their evolution. *Physiological Entomology* 28: 157–174.
- 16 Ballantyne, P. K. and P. W. Colgan. 1978. Sound production during agonistic and reproductive behaviour in the pumpkinseed (*Lepomis gibbosus*), the bluegill (*Lepomis macrochirus*), and their hybrid sunfish. *Biology of Behavior* 3: 113–135.
- 17 Ballard, K. A. and K. M. Kovacs. 1995. The acoustic repertoire of hooded seals (*Cystophora cristata*). *Canadian Journal of Zoology-Revue Canadienne De Zoologie* 73: 1362–1374.
- 18 Ballentine, B., J. Hyman, and S. Nowicki. 2004. Vocal performance influences female response to male bird song: an experimental test. *Behavioral Ecology* 15: 163–168.
- 19 Barklow, W. E. 1997. Some underwater sounds of the hippopotamus (*Hippopotamus amphibius*). *Marine and Freshwater Behaviour and Physiology* 29: 237–249.
- 20 Barklow, W. E. 2004. Amphibious communication with sound in hippos, *Hippopotamus amphibius*. *Animal Behaviour* 68: 1125–1132.
- 21 Barnett, K. E., R. B. Cocroft, and L. J. Fleishman. 1999. Possible communication by substrate vibration in a chameleon. *Copeia* 225–228.
- 22 Barth, F. G. 1998. The vibrational sense of spiders. In *Comparative Hearing: Insects* (R. R. Hoy, A. N. Popper, and R. R. Fay, eds.), pp. 228–278. New York: Springer.
- 23 Barth, F. G. 2002. Spider senses - technical perfection and biology. *Zoology* 105: 271–285.

- 24 Beckers, G. J. L., R. A. Suthers, and C. ten Cate. 2003. Pure-tone birdsong by resonance filtering of harmonic overtones. *Proceedings of the National Academy of Sciences of the United States of America* 100: 7372–7376.
- 25 Beckers, G. J. L., B. S. Nelson, and R. A. Suthers. 2004. Vocal-tract filtering by lingual articulation in a parrot. *Current Biology* 14: 1592–1597.
- 26 Beddard, F. E. 1898. *The Structure and Classification of Birds*. London: Longmans Green.
- 27 Bennet-Clark, H. C. 1970. The mechanism and efficiency of sound production in mole crickets. *Journal of Experimental Biology* 52: 619–652.
- 28 Bennet-Clark, H. C. 1971. Acoustics of insect song. *Nature* 234: 255–259.
- 29 Bennet-Clark, H. C. 1987. The tuned singing burrow of mole crickets. *Journal of Experimental Biology* 128: 383–409.
- 30 Bennet-Clark, H. C. 1989. Songs and the physics of sound production. In *Cricket Behavior and Neurobiology* (F. Huber, T. E. Moore, and W. Loher, eds.), pp. 227–261. Ithaca, NY: Cornell University Press.
- 31 Bennet-Clark, H. C. 1995. Insect sound production: transduction mechanisms and impedance matching. In *Biological Fluid Dynamics* (C. P. Ellington and T. J. Pedley, eds.), pp. 199–218. Cambridge, UK: Company of Biologists.
- 32 Bennet-Clark, H. C. 1998. Size and scale effects as constraints in insect sound communication. *Philosophical Transactions of the Royal Society of London Series B-Biological Sciences* 353: 407–419.
- 33 Bennet-Clark, H. C. 1998. How cicadas make their noise. *Scientific American* 278: 58–61.
- 34 Bennet-Clark, H. C. 1999. Resonators in insect sound production: How insects produce loud pure-tone songs. *Journal of Experimental Biology* 202: 3347–3357.
- 35 Bennet-Clark, H. C. and A. G. Daws. 1999. Transduction of mechanical energy into sound energy in the cicada *Cyclochila Australasiae*. *Journal of Experimental Biology* 202: 1803–1817.
- 36 Berland, B. 1966. The hood and its extrusible balloon in the hooded seal - *Cystophora cristata* Exl. *Norsk Polarinstitutt Arbok* 1965: 95–102.
- 37 Bertilone, D. C. and D. S. Killeen. 2001. Statistics of biological noise and performance of generalized energy detectors for passive detection. *Ieee Journal of Oceanic Engineering* 26: 285–294.

- 38 Bertram, B. C. 1977. Variation in the wing-song of the flappet lark. *Animal Behaviour* 25: 165–170.
- 39 Bleckmann, H. 1988. Prey identification and prey localization in surface-feeding fish and fishing spiders. In *Sensory Biology of Aquatic Animals* (J. Atema, R. R. Fay, A. N. Popper, and W. N. Tavolga, eds.), pp. 619–641. New York: Springer-Verlag.
- 40 Blest, A. D., J. D. Pye, and T. S. Collett. 1963. Generation of ultrasonic signals by a New World arctiid moth. *Proceedings of the Royal Society B-Biological Sciences* 158: 196–207.
- 41 Boshier, B. T., S. H. Newton, and M. L. Fine. 2006. The spines of the channel catfish, *Ictalurus punctatus*, as an anti-predator adaptation: An experimental study. *Ethology* 112: 188–195.
- 42 Bostwick, K. S. 2000. Display behaviors, mechanical sounds, and evolutionary relationships of the Club-winged Manakin (*Machaeropterus deliciosus*). *Auk* 117: 465–478.
- 43 Bostwick, K. S. 2000. Sexual selection for wing-sounds associated with convergent wing shape evolution between three clades of manakins (Aves : Pipridae). *American Zoologist* 40: 950–950.
- 44 Bostwick, K. S. and R. O. Prum. 2003. High-speed video analysis of wing-snapping in two manakin clades (Pipridae : Aves). *Journal of Experimental Biology* 206: 3693–3706.
- 45 Bostwick, K. S. 2006. Mechanisms of feather sonation in Aves: unanticipated levels of diversity. *Acta Zoologica Sinica* 52(Suppl): 68–71.
- 46 Brackenbury, J. H. 1982. The structural basis of voice production and its relationship to sound characteristics. In *Acoustic Communication in Birds* (D. Kroodsma, E. H. Miller, and H. Ouellet, eds.), pp. 53–73. New York: Academic Press.
- 47 Brackenbury, J. H. 1989. Functions of the syrinx and the control of sound production. In *Form and Function in Birds* (A. S. King and J. McLelland, eds.), pp. 193–220. New York: Academic Press.
- 48 Burk, T. 1981. Signaling and sex in acalyprate flies. *Florida Entomologist* 64: 30–43.

- 49 Burk, T. and J. C. Webb. 1983. Effect of size on calling propensity, song parameters, and mating success in Caribbean fruit flies, *Anastrepha suspensa* (Loew) (Diptera: Tephritidae). *Annals of the Entomological Society of America* 76: 678–682.
- 50 Burkenroad, H. D. 1931. Notes on the sound-producing marine fishes of Louisiana. *Copeia* 1931: 20–28.
- 51 Cardoso, A. J. and W. R. Heyer. 1995. Advertisement, aggressive, and possible seismic signals of the frog, *Leptodactylus syphax* (Amphibia, Leptodactylidae). *Alytes* 13: 67–76.
- 52 Carlson, B. A. and A. H. Bass. 2000. Sonic/vocal motor pathways in squirrelfish (Teleostei, Holocentridae). *Brain Behavior and Evolution* 56: 14–28.
- 53 Carr-Lewty, R. A. 1943. The aerodynamics of the drumming of the common snipe. *British Birds* 36: 230–234.
- 54 Casey, R. M. and A. S. Gaunt. 1985. Theoretical models of the avian syrinx. *Journal of Theoretical Biology* 116: 45–64.
- 55 Chernova, O. F. and R. S. Hoffmann. 2004. A comparative study of thin structure of tenrec spines (Mammalia, Tenrecidae). *Zoologicheskyy Zhurnal* 83: 159–165.
- 56 Chitre, M. A., J. R. Potter, and S. H. Ong. 2006. Optimal and near-optimal signal detection in snapping shrimp dominated ambient noise. *Ieee Journal of Oceanic Engineering* 31: 497–503.
- 57 Claridge, M. F. 1985. Acoustic-Signals in the Homoptera - Behavior, Taxonomy, and Evolution. *Annual Review of Entomology* 30: 297–317.
- 58 Claridge, M. F., J. C. Morgan, and M. S. Moulds. 1999. Substrate-transmitted acoustic signals of the primitive cicada, *Tettigarcta crinita* Distant (Hemiptera Cicadoidea, Tettigarctidae). *Journal of Natural History* 33: 1831–1834.
- 59 Clark, C. J. 2008. Fluttering wing feathers produce the flight sounds of male streamertail hummingbirds. *Biology Letters* 4: 341–344.
- 60 Clark, C. J. and T. J. Feo. 2008. The Anna's hummingbird chirps with its tail: a new mechanism of sonation in birds. *Proceedings of the Royal Society B-Biological Sciences* 275: 955–962.
- 61 Clarke, M. R. 2003. Production and control of sound by the small sperm whales, *Kogia breviceps* and *K-sima* and their implications for other Cetacea. *Journal of the Marine Biological Association of the United Kingdom* 83: 241–263.

- 62 Clayton, D. 2005. Substrate (acoustic/vibrational) communication and ecology of the ghost crab *Ocypode jousseaumei* (Brachyura : Ocypodidae). *Marine and Freshwater Behaviour and Physiology* 38: 53–70.
- 63 Clench, M. H. 1978. Tracheal elongation in birds-of-paradise. *Condor* 80: 423–430.
- 64 Cocroft, R. B. 2001. Vibrational communication and the ecology of group-living, herbivorous insects. *American Zoologist* 41: 1215–1221.
- 65 Cocroft, R. B. and R. L. Rodriguez. 2005. The behavioral ecology of insect vibrational communication. *Bioscience* 55: 323–334.
- 66 Cocroft, R. B. and G. D. McNett. 2006. Vibratory communication in treehoppers (Hemiptera: Membracidae). In *Insect Sounds and Communication: Physiology, Behaviour, and Evolution* (S. Drosopoulos and M. F. Claridge, eds.), pp. 305–317. Boca Raton, FL: CRS Taylor and Francis.
- 67 Cocroft, R. B., H. J. Shugart, K. T. Konrad, and K. Tibbs. 2006. Variation in plant substrates and its consequences for insect vibrational communication. *Ethology* 112: 779–789.
- 68 Coelho, J. R. 1998. An acoustical and physiological analysis of buzzing in cicada killer wasps (*Sphex speciosus*). *Journal of Comparative Physiology a-Sensory Neural and Behavioral Physiology* 183: 745–751.
- 69 Čokl, A. and M. V. Doberlet. 2003. Communication with substrate-borne signals in small plant-dwelling insects. *Annual Review of Entomology* 48: 29–50.
- 70 Čokl, A., J. Presern, M. Virant-Doberlet, G. J. Bagwell, and J. G. Millar. 2004. Vibratory signals of the harlequin bug and their transmission through plants. *Physiological Entomology* 29: 372–380.
- 71 Čokl, A., M. Zorovic, A. Zunic, and M. Virant-Doberlet. 2005. Tuning of host plants with vibratory songs of *Nezara viridula* L (Heteroptera : Pentatomidae). *Journal of Experimental Biology* 208: 1481–1488.
- 72 Coleman, S. W. 2008. Mourning dove (*Zenaida macroura*) wing-whistles may contain threat-related information for con- and hetero-specifics. *Naturwissenschaften* 95: 981–986.
- 73 Colson, D. J., S. N. Patek, E. L. Brainerd, and S. M. Lewis. 1998. Sound production during feeding in Hippocampus seahorses (Syngnathidae). *Environmental Biology of Fishes* 51: 221–229.

- 74 Connaughton, M. A. 2004. Sound generation in the searobin (*Prionotus carolinus*), a fish with alternate sonic muscle contraction. *Journal of Experimental Biology* 207: 1643–1654.
- 75 Conner, W. E. 1999. 'Un chant d'appel amoureux': Acoustic communication in moths. *Journal of Experimental Biology* 202: 1711–1723.
- 76 Cook, P. M., M. P. Rowe, and R. W. Vandevender. 1994. Allometric scaling and interspecific differences in the rattling sounds of rattlesnakes. *Herpetologica* 50: 358–368.
- 77 Costa, J. T., T. D. Fitzgerald, A. Pescador-Rubio, J. Mays, and D. H. Janzen. 2004. Social behavior of larvae of the Neotropical processionary weevil *Phelypera distigma* (Boheman) (Coleoptera : Curculionidae : Hyperinae). *Ethology* 110: 515–530.
- 78 Craig, J. L. 1984. Wing noises, wing slots, and aggression in New Zealand honeyeaters (Aves: Meliphagidae). *New Zealand Journal of Zoology* 11: 195–200.
- 79 Cranford, T. W., M. Amundin, and K. S. Norris. 1996. Functional morphology and homology in the odontocete nasal complex: Implications for sound generation. *Journal of Morphology* 228: 223–285.
- 80 Cranford, T. W. 2000. In search of impulse sound sources in odontocetes. In *Hearing in Whales and Dolphins* (W. W. L. Au, A. N. Popper, and R. R. Fay, eds.), pp. 109–155. New York: Springer Verlag.
- 81 Crawford, J. D. and X. Huang. 1999. Communication signals and sound production mechanisms of mormyrid electric fish. *Journal of Experimental Biology* 202: 1417–1426.
- 82 Dambach, M. 2005. Wear and tear on the stridulatory file of the field cricket, *Gryllus campestris* (Orthoptera : Gryllidae). *Entomologia Generalis* 27: 277–285.
- 83 Dantzker, M. S. and J. W. Bradbury. 2006. Vocal sacs and their role in avian acoustic display. *Acta Zoologica Sinica* 52(Suppl): 486–488.
- 84 De Graaf, J., A. S. Schoeman, and R. L. Brandenburg. 2005. Stridulation of *Gryllotalpa africana* (Orthoptera : Gryllotalpidae) on turf grass in South Africa. *Florida Entomologist* 88: 292–299.
- 85 de Souza, N. A., R. D. Ward, J. G. C. Hamilton, C. P. Kyriacou, and A. A. Peixoto. 2002. Copulation songs in three siblings of *Lutzomyia longipalpis* (Diptera : Psychodidae). *Transactions of the Royal Society of Tropical Medicine and Hygiene* 96: 102–103.

- 86 de Souza, N. A., F. M. Vigoder, A. S. Araki, R. D. Ward, C. P. Kyriacou, and A. A. Peixoto. 2004. Analysis of the copulatory courtship songs of *Lutzomyia longipalpis* in six populations from Brazil. *Journal of Medical Entomology* 41: 906–913.
- 87 Decker, G. Z. and S. L. Thomson. 2007. Computational simulations of vocal fold vibration: Bernoulli versus Navier-Stokes. *Journal of Voice* 21: 273–284.
- 88 Desutter-Grandcolas, L. and T. Robillard. 2004. Acoustic evolution in crickets: need for phylogenetic study and a reappraisal of signal effectiveness. *Anais Da Academia Brasileira De Ciencias* 76: 301–315.
- 89 Devries, P. J., R. B. Cocroft, and J. Thomas. 1993. Comparison of acoustical signals in *Maculinea* butterfly caterpillars and their obligate host *Myrmica* ants. *Biological Journal of the Linnean Society* 49: 229–238.
- 90 Dodenhoff, D. J., R. D. Stark, and E. V. Johnson. 2001. Do woodpecker drums encode information for species recognition? *Condor* 103: 143–150.
- 91 Drewry, G. E., W. R. Heyer, and A. S. Rand. 1982. A functional analysis of the complex call of the frog *Physalaemus pustulosus*. *Copeia* 1982: 636–645.
- 92 Dumortier, B. 1963. Morphology of sound emission apparatus in arthropoda. In *Acoustic Behaviour of Animals* (R.-G. Busnel, ed.), pp. 277–345. Amsterdam: Elsevier Publishing Company.
- 93 Dunning, D. C. and K. D. Roeder. 1965. Moth sounds and insect catching behavior of bats. *Science* 147: 173–174.
- 94 Eberhardt, L. S. 1997. A test of an environmental advertisement hypothesis for the function of drumming in yellow-bellied Sapsuckers. *Condor* 99: 798–803.
- 95 Elemans, C. P.H., I. L.Y. Spierts, U. K. Muller, J. L. van Leeuwen, and F. Goller. 2004. Superfast muscles control dove's trill. *Nature* 431: 146–146.
- 96 Elias, D. O., A. C. Mason, W. P. Maddison, and R. R. Hoy. 2003. Seismic signals in a courting male jumping spider (Araneae : Salticidae). *Journal of Experimental Biology* 206: 4029–4039.
- 97 Elias, D. O., A. C. Mason, and R. R. Hoy. 2004. The effect of substrate on the efficacy of seismic courtship signal transmission in the jumping spider *Habronattus dossenus* (Araneae : Salticidae). *Journal of Experimental Biology* 207: 4105–4110.
- 98 Elias, D. O., E. A. Hebets, R. R. Hoy, and A. C. Mason. 2005. Seismic signals are crucial for male mating success in a visual specialist jumping spider (Araneae : Salticidae). *Animal Behaviour* 69: 931–938.

- 99** Elsner, N. 1983. Insect stridulation and its neurophysiological basis. In *Bioacoustics: A Comparative Approach* (B. Lewis, ed.), pp. 69–92. London: Academic Press.
- 100** Evans, H. E. 1996. Anatomy of the budgerigar and other birds. In *Diseases of Cage and Aviary Birds* (W. J. Rosskopf and R. W. Woerpel, eds.), pp. 79–162. Baltimore, MD: Williams and Wilkins, Inc.
- 101** Ferguson, B. G. and J. L. Cleary. 2001. In situ source level and source position estimates of biological transient signals produced by snapping shrimp in an underwater environment. *Journal of the Acoustical Society of America* 109: 3031–3037.
- 102** Fernandez-Montraveta, C. and M. Simo. 2002. Male pedipalpal stridulatory devices in neotropical wolf spiders and their possible role in systematics. *Journal of Arachnology* 30: 475–480.
- 103** Field, L. H. and K. L. Roberts. 2003. Novel use of hair sensilla in acoustic stridulation by New Zealand giant wetas (Orthoptera : Anostostomatidae). *Arthropod Structure and Development* 31: 287–296.
- 104** Fine, M. L., H. E. Winn, and B. L. Olla. 1977. Communication in fishes. In *How Animals Communicate* (T. A. Sebeok, ed.), pp. 472–518. Bloomington, IN: Indiana University Press.
- 105** Fine, M. L., J. P. Friel, D. McElroy, C. B. King, K. E. Loesser, and S. Newton. 1997. Pectoral spine locking and sound production in the channel catfish *Ictalurus punctatus*. *Copeia* 777–790.
- 106** Fine, M. L., K. L. Malloy, C. M. King, S. L. Mitchell, and T. M. Cameron. 2001. Movement and sound generation by the toadfish swim bladder. *Journal of Comparative Physiology -Sensory Neural and Behavioral Physiology* 187: 371–379.
- 107** Fine, M. L. and F. Ladich. 2003. Sound production, spine locking, and related adaptations. In *Catfishes, Vol. 1* (G. Arratia, B. G. Kapoor, M. Chardon, and R. Diogo, eds.), pp. 249–290. Enfield, NH: Science Publishers, Inc.
- 108** Fish, M. P. 1953. The production of underwater sounds by the northern seahorse *Hippocampus hudsonius*. *Copeia* 1953: 98–99.
- 109** Fish, M. P. and W. H. Mowbray. 1970. *Sounds of Western North Atlantic Fishes*. Baltimore, MD: Johns Hopkins Press.

- 110 Fitch, T. and M. D. Hauser. 2003. Unpacking “honesty”: vertebrate vocal production and the evolution of acoustic signals. In *Acoustic Communication* (A. Simmons, R. R. Fay, and A. N. Popper, eds.), pp. 65–137. New York: Springer.
- 111 Fitch, W. T. and M. D. Hauser. 1995. Vocal production in nonhuman primates - acoustics, physiology, and functional constraints on honest advertisement. *American Journal of Primatology* 37: 191–219.
- 112 Fitch, W. T. 1997. Vocal tract length and formant frequency dispersion correlate with body size in rhesus macaques. *Journal of the Acoustical Society of America* 102: 1213–1222.
- 113 Fitch, W. T. 1999. Acoustic exaggeration of size in birds via tracheal elongation: comparative and theoretical analyses. *Journal of Zoology* 248: 31–48.
- 114 Fitch, W. T. 2000. The phonetic potential of nonhuman vocal tracts: Comparative cineradiographic observations of vocalizing animals. *Phonetica* 57: 205–218.
- 115 Fitch, W. T. and D. Reby. 2001. The descended larynx is not uniquely human. *Proceedings of the Royal Society of London Series B-Biological Sciences* 268: 1669–1675.
- 116 Fitch, W. T., J. Neubauer, and H. Herzl. 2002. Calls out of chaos: the adaptive significance of nonlinear phenomena in mammalian vocal production. *Animal Behaviour* 63: 407–418.
- 117 Fletcher, L. E., J. E. Yack, T. D. Fitzgerald, and R. R. Hoy. 2006. Vibrational communication in the cherry leaf roller caterpillar *Caloptilia serotinata* (Gracillarioidea : Gracillariidae). *Journal of Insect Behavior* 19: 1–18.
- 118 Fletcher, N. H. 1989. Bird song - some unresolved problems. *Comments on Theoretical Biology* 4: 237–251.
- 119 Fletcher, N. H. 1992. *Acoustic Systems In Biology*. New York: Oxford University Press.
- 120 Fletcher, N. H. and A. Tarnopolsky. 1999. Acoustics of the avian vocal tract. *Journal of the Acoustical Society of America* 105: 35–49.
- 121 Fletcher, N. H., T. Riede, G. J.L. Beckers, and R. A. Suthers. 2004. Vocal tract filtering and the “coo” of doves. *Journal of the Acoustical Society of America* 116: 3750–3756.
- 122 Fletcher, N. H., T. Riede, and R. A. Suthers. 2006. Model for vocalization by a bird with distensible vocal cavity and open beak. *Journal of the Acoustical Society of America* 119: 1005–1011.

- 123** Fonseca, P. J. and A. V. Popov. 1997. Directionality of the tympanal vibrations in a cicada: A biophysical analysis. *Journal of Comparative Physiology A-Sensory Neural and Behavioral Physiology* 180: 417–427.
- 124** Fonseca, P. J. and H. C. Bennet-Clark. 1998. Asymmetry of tymbal action and structure in a cicada: A possible role in the production of complex songs. *Journal of Experimental Biology* 201: 717–730.
- 125** Forrest, T. G. 1982. Acoustic communication and baffling behaviors of crickets. *Florida Entomologist* 65: 33–44.
- 126** Forrest, T. G. 1991. Power output and efficiency of sound production by crickets. *Behavioral Ecology* 2: 327–338.
- 127** Frey, R., A. Gebler, and G. Fritsch. 2006. Arctic roars - laryngeal anatomy and vocalization of the muskox (*Ovibos moschatus* Zimmermann, 1780, Bovidae). *Journal of Zoology* 268: 433–448.
- 128** Frith, C. B. 1994. Adaptive significance of tracheal elongation in manucodes (Paradisaeidae). *Condor* 96: 552–555.
- 129** Gaiger, F. and S. A. Vanin. 2006. The elytro-femoral stridulatory apparatus in Curculionidae (Coleoptera), with notes on the acoustic behaviour of *Arniticus hylobioides* (Boheman 1843) and *Erodiscus proximus* (Viana 1959), and thanatosis display in the latter species. *Annales De La Societe Entomologique De France* 42: 165–170.
- 130** Gans, C. and P. F. Maderson. 1973. Sound producing mechanisms in recent reptiles - review and comment. *American Zoologist* 13: 1195–1203.
- 131** Gardner, S. C. and U. Varanasi. 2003. Isovaleric acid accumulation in odontocete melon during development. *Naturwissenschaften* 90: 528–531.
- 132** Gaunt, A. S., S. L. L. Gaunt, and D. H. Hector. 1976. Mechanics of the syrinx in *Gallus gallus*. I. A comparison of pressure events in chickens to those in oscines. *Condor* 78: 208–223.
- 133** Gaunt, A. S. and S. L.L. Gaunt. 1977. Mechanics of the syrinx in *Gallus gallus*. II. electromyographic studies of *ad libitum* vocalizations. *Journal of Morphology* 153: 1–20.
- 134** Gaunt, A. S. and S. L. L. Gaunt. 1980. Phonation of the ring dove: implications and variants. *American Zoologist* 20: 758.

- 135** Gaunt, A. S. and S. L. L. Gaunt. 1980. Phonation of the ring dove: the basic mechanism. *American Zoologist* 20: 757.
- 136** Gaunt, A. S., S. L. L. Gaunt, and R. M. Casey. 1982. Syringeal mechanics reassessed: evidence from *Streptopelia*. *Auk* 99: 474–494.
- 137** Gaunt, A. S. 1983. A hypothesis concerning the relationship of syringeal structure to vocal abilities. *Auk* 100: 853–862.
- 138** Gaunt, A. S. and S. L. L. Gaunt. 1985. Electromyographic studies of the syrinx in parrots (Aves: Psittacidae). *Zoomorphologie* 105: 1–11.
- 139** Gaunt, A. S. and S. L. L. Gaunt. 1985. Syringeal structures and avian phonation. In *Current Ornithology* (R. F. Johnston, ed.), pp. 213–245. New York: Plenum Press.
- 140** Gaunt, A. S., S. L. L. Gaunt, H. D. Prange, and J. S. Wasser. 1987. The effects of tracheal coiling on the vocalizations of cranes (Aves; Gruidae). *Journal of Comparative Physiology A-Sensory Neural and Behavioral Physiology* 161: 43–58.
- 141** Gautier, J. P. 1971. Etude morphologique et fonctionnelle des annexes extralaryngées des cercopithecinae; liaison avec les cris d'espacement. *Biologica Gabonica* 7: 230–267.
- 142** Gautier-Hion, A., M. Colyn, and J. P. Gautier. 1999. *Histoire Naturelle des Primates d'Afrique Centrale*. Libreville, Gabon: Ecofac.
- 143** Gerhardt, H. C. 1994. The evolution of vocalization in frogs and toads. *Annual Review of Ecology and Systematics* 25: 293–324.
- 144** Gerhardt, H. C. 1998. Acoustic signals of animals: recording, field measurements, analysis and description. In *Animal Acoustic Communication: Sound Analysis and Research Methods* (H. S. L., M. J. Owren, and C. S. Evans, eds.), pp. 1–25. Berlin: Springer-Verlag.
- 145** Gerhardt, H. C. and F. Huber. 2002. *Acoustic Communication in Insects and Anurans: Common Problems and Diverse Solutions*. Chicago, IL: Chicago University Press.
- 146** Gibson, G. and I. Russell. 2006. Flying in tune: Sexual recognition in mosquitoes. *Current Biology* 16: 1311–1316.
- 147** Gilliard, E. T. 1969. *Birds of Paradise and Bower Birds*. Garden City, NY: Natural History Press.

- 148** Gogala, M., A. Čokl, K. Draslar, and A. Blazevic. 1974. Substrate-borne sound communication in Cydnidae (Heteroptera). *Journal of Comparative Physiology* 94: 25–31.
- 149** Goller, F. and R. A. Suthers. 1995. Implications for lateralization of bird song from unilateral gating of bilateral motor patterns. *Nature* 373: 63–66.
- 150** Goller, F. and R. A. Suthers. 1996. Role of syringeal muscles in gating airflow and sound production in singing brown thrashers. *Journal of Neurophysiology* 75: 867–876.
- 151** Goller, F. and R. A. Suthers. 1996. Role of syringeal muscles in controlling the phonology of bird song. *Journal of Neurophysiology* 76: 287–300.
- 152** Goller, F. and O. N. Larsen. 1997. A new mechanism of sound generation in songbirds. *Proceedings of the National Academy of Sciences of the United States of America* 94: 14787–14791.
- 153** Goller, F. and O. N. Larsen. 1997. In situ biomechanics of the syrinx and sound generation in pigeons. *Journal of Experimental Biology* 200: 2165–2176.
- 154** Goller, F. and R. A. Suthers. 1999. Bilaterally symmetrical respiratory activity during lateralized birdsong. *Journal of Neurobiology* 41: 513–523.
- 155** Goller, F. and O. N. Larsen. 2002. New perspectives on mechanisms of sound generation in songbirds. *Journal of Comparative Physiology A-Neuroethology Sensory Neural and Behavioral Physiology* 188: 841–850.
- 156** Goller, F. and B. G. Cooper. 2004. Peripheral motor dynamics of song production in the zebra finch. In *Behavioral Neurobiology of Birdsong* (Zeigler, P. and P. Marler, eds.), pp. 130–152. New York: New York Academy of Sciences.
- 157** Goller, F., M. J. Mallinckrodt, and S. D. Torti. 2004. Beak gape dynamics during song in the zebra finch. *Journal of Neurobiology* 59: 289–303.
- 158** Grasso, D. A., M. Priano, G. Pavan, A. Mori, and F. Le Moli. 2000. Stridulation in four species of Messor ants (Hymenoptera, Formicidae). *Italian Journal of Zoology* 67: 281–285.
- 159** Greenewalt, C. H. 1968. *Bird Song: Acoustics and Physiology*. Washington, D. C.: Smithsonian Institution Press.
- 160** Greenfield, M. D. and T. Weber. 2000. Evolution of ultrasonic signalling in wax moths: discrimination of ultrasonic mating calls from bat echolocation signals and the exploitation of an anti-predator receiver bias by sexual advertisement. *Ethology Ecology and Evolution* 12: 259–279.

- 161** Greenfield, M. D. 2002. *Signaleers and Receivers: Mechanisms and Evolution of Arthropod Communication*. Oxford: Oxford University Press.
- 162** Gridi-Papp, M., A. S. Rand, and M. J. Ryan. 2006. Animal communication: Complex call production in the tungara frog. *Nature* 441: 38–38.
- 163** Gridi-Papp, M. 2008. The structure of vocal sounds produced with the mouth closed or with the mouth open in treefrogs. *Journal of the Acoustical Society of America* 123: 2895–2902.
- 164** Griffin, D. R. 1952. Mechanisms in the bat larynx for production of ultrasonic sounds. *Federation Proceedings* 11: 59–59.
- 165** Gunther, R. H., C. E. O'Connell-Rodwell, and S. L. Klemperer. 2004. Seismic waves from elephant vocalizations: A possible communication mode? *Geophysical Research Letters* 31:
- 166** Guzy, M. J. 2002. Antillean nighthawk (*Chordeiles gundlachi*). No. 619. In *The Birds of North America* (A. Poole and F. Gill, eds.). Philadelphia, PA: The Birds of North America, Inc.
- 167** Harris, G. G. 1964. Considerations on the physics of sound production by fishes. In *Marine Bio-Acoustics* (W. N. Tavolga, ed.), pp. 233–247. New York: Pergamon Press.
- 168** Hartley, D. J. and R. A. Suthers. 1987. The sound emission pattern and the acoustical role of the noseleaf in the echolocating bat, *Carollia perspicillata*. *Journal of the Acoustical Society of America* 82: 1892–900.
- 169** Hartley, D. J. and R. Suthers. 1988. The acoustics of the vocal tract in the horseshoe bat, *Rhinolophus hildebrandti*. *Journal of the Acoustical Society of America* 84: 1201–1213.
- 170** Hartley, D. J. and R. A. Suthers. 1990. Sonar pulse radiation and filtering in the mustached bat, *Pteronotus parnellii rubiginosus*. *Journal of the Acoustical Society of America* 87: 2756–2772.
- 171** Hartley, R. S. and R. A. Suthers. 1989. Airflow and pressure during canary song: direct evidence for mini-breaths. *Journal of Comparative Physiology A-Sensory Neural and Behavioral Physiology* 165: 15–26.
- 172** Hartley, R. S. 1990. Expiratory muscle activity during song production in the canary. *Respiration Physiology* 81: 177–188.

- 173** Hast, M. H. 1989. The larynx of roaring and non-roaring cats. *Journal of Anatomy* 163: 117–121.
- 174** Hauser, M. D. and M. Schön-Ybarra. 1994. The role of lip configuration in monkey vocalizations: experiments using xylocaine as a nerve block. *Brain and Language* 46: 232–244.
- 175** Hawkins, A. D. and A. A. Myrberg. 1983. Hearing and sound communication under water. In *Bioacoustics: A Comparative Approach* (B. Lewis, ed.), pp. 347–405. New York: Academic Press.
- 176** Hawkins, A. D. 1993. Underwater sound and fish behavior. In *Behaviour of Teleost Fishes* (T. J. Pitcher, ed.), pp. 129–169. London: Chapman and Hall.
- 177** Heidelberg, J. and M. Dambach. 1997. Wing-flick signals in the courtship of the African cave cricket, *Phaeophilacris spectrum*. *Ethology* 103: 827–843.
- 178** Hennig, R. M., T. Weber, T. E. Moore, F. Huber, H. U. Kleindienst, and A. V. Popov. 1994. Function of the tensor muscle in the cicada *Tibicen linnei*. *Journal of Experimental Biology* 187: 33–44.
- 179** Henninger, H. P. and W. H. Watson. 2005. Mechanisms underlying the production of carapace vibrations and associated waterborne sounds in the American lobster, *Homarus americanus*. *Journal of Experimental Biology* 208: 3421–3429.
- 180** Herberholz, J. and B. Schmitz. 1998. Role of mechanosensory stimuli in intraspecific agonistic encounters of the snapping shrimp (*Alpheus heterochaelis*). *Biological Bulletin* 195: 156–167.
- 181** Herzel, H., D. Berry, I. Titze, and I. Steinecke. 1995. Nonlinear dynamics of the voice - signal analysis and biomechanical modeling. *Chaos* 5: 30–34.
- 182** Heyd, A. and W. Pfeiffer. 2000. Sound production in catfish (Siluroidei, Ostariophysi, Teleostei) and its relationship to phylogeny and fright reaction. *Revue Suisse De Zoologie* 107: 165–211.
- 183** Hickling, R. and R. L. Brown. 2000. Analysis of acoustic communication by ants. *Journal of the Acoustical Society of America* 108: 1920–1929.
- 184** Hill, P. S. M. 2001. Vibration and animal communication: a review. *American Zoologist* 41: 1135–1142.
- 185** Hill, P. S. M. and J. R. Shadley. 2001. Talking back: Sending soil vibration signals to lekking prairie mole cricket males. *American Zoologist* 41: 1200–1214.

- 186** Hingee, M. and R. D. Magrath. 2009. Flights of fear: a mechanical wing whistle sounds the alarm in a flocking bird. *Proceedings of the Royal Society B-Biological Sciences* 276: 4173–4179.
- 187** Hinsch, K. 1972. Akustische Gesangsanalyse beim Fitis (*Phylloscopus trochilus*) zur Untersuchung der Rolle der Luftröhre bei der Stimmerzeugung der Singvögel. *Journal für Ornithologie* 113: 315–322.
- 188** Hjorth, I. 1970. Reproductive behavior in Tetraonidae with special reference to males. *Viltrevy* 7: 381–587.
- 189** Holldobler, B. 1999. Multimodal signals in ant communication. *Journal of Comparative Physiology A-Neuroethology Sensory Neural and Behavioral Physiology* 184: 129–141.
- 190** Houser, D. S., J. Finneran, D. Carder, W. Van Bonn, C. Smith, C. Hoh, R. Mattrey, and S. Ridgway. 2004. Structural and functional imaging of bottlenose dolphin (*Tursiops truncatus*) cranial anatomy. *Journal of Experimental Biology* 207: 3657–3665.
- 191** Huber, S. K. and J. Podos. 2006. Beak morphology and song features covary in a population of Darwin's finches (*Geospiza fortis*). *Biological Journal of the Linnean Society* 88: 489–498.
- 192** Hunter, T. A. 2008. On the role of wing sounds in Hummingbird communication. *Auk* 125: 532–541.
- 193** Hyder, D. E. and C. Y. Oseto. 1989. Structure of the stridulatory apparatus and analysis of the sound produced by *Smicronyx fulvus* and *Smicronyx sordidus* (Coleoptera, Curculionidae, Eriirrhinae, Smicronychini). *Journal of Morphology* 201: 69–84.
- 194** Ichikawa, T. 1976. Mutual communication by substrate vibrations in the mating behavior of planthoppers (Homoptera, Delphacidae). *Applied Entomology and Zoology* 11: 8–21.
- 195** Imafuku, M. and H. Ikeda. 1990. Sound production in the land hermit crab *Coenobita purpureus* Stimpson, 1858 (Decapoda, Coenobitidae). *Crustaceana* 58: 168–174.
- 196** Imbeau, L. and A. Desrochers. 2002. Foraging ecology and use of drumming trees by three-toed woodpeckers. *Journal of Wildlife Management* 66: 222–231.
- 197** Ivanov, V. D. 1994. The vibratory signaling of caddisflies (Insecta, Trichoptera). *Zoologicheskyy Zhurnal* 73: 55–70.

- 198** Jaramillo, C., A. S. Rand, R. Ibanez, and R. Dudley. 1997. Elastic structures in the vocalization apparatus of the Tungara frog *Physalaemus pustulosus* (Leptodactylidae). *Journal of Morphology* 233: 287–295.
- 199** Jensen, K. K., B. G. Cooper, O. N. Larsen, and F. Goller. 2007. Songbirds use pulse tone register in two voices to generate low-frequency sound. *Proceedings of the Royal Society B-Biological Sciences* 274: 2703–2710.
- 200** Jia, F. Y., M. D. Greenfield, and R. D. Collins. 2001. Ultrasonic signal competition between male wax moths. *Journal of Insect Behavior* 14: 19–33.
- 201** Jocque, R. 2005. Six stridulating organs on one spider (Araneae, Zodariidae): Is this the limit? *Journal of Arachnology* 33: 597–603.
- 202** Johnsgard, P. A. 1971. Observations on sound production in the Anatidae. *Wildfowl* 22: 46–59.
- 203** Johnsgard, P. A. and M. Carbonell. 1996. *Ruddy Ducks and Other Stifftails*. Norman, OK: University of Oklahoma Press.
- 204** Kalmijn, A. J. 1988. Hydrodynamic and acoustic field detection. In *Sensory Biology of Aquatic Animals* (J. Atema, R. R. Fay, A. N. Popper, and W. N. Tavolga, eds.), pp. 83–130. New York: Springer-Verlag.
- 205** Kasper, J. and P. Hirschberger. 2005. Stridulation in *Aphodius* dung beetles: songs and morphology of stridulatory organs in North American *Aphodius* species (Scarabaeidae). *Journal of Natural History* 39: 91–99.
- 206** Kelemen, G. 1963. Comparative anatomy and performance of the vocal organ in vertebrates. In *Acoustic Behaviour of Animals* (R.-G. Busnel, ed.), pp. 489–521. Amsterdam: Elsevier Publishing Company.
- 207** King, A. S. 1989. Functional anatomy of the syrinx. In *Form and Function in Birds, Vol. 4* (A. S. King and J. McLelland, eds.), pp. 105–192. New York: Academic Press.
- 208** Kirchner, J. A. 1993. The vertebrate larynx - adaptations and aberrations. *Laryngoscope* 103: 1197–1201.
- 209** Knowlton, N. and B. D. Keller. 1982. Symmetric Fights as a Measure of Escalation Potential in a Symbiotic, Territorial Snapping Shrimp. *Behavioral Ecology and Sociobiology* 10: 289–292.
- 210** Koopman, H. N., S. M. Budge, D. R. Ketten, and S. J. Iverson. 2006. Topographical distribution of lipids inside the mandibular fat bodies of odontocetes: Remarkable complexity and consistency. *Ieee Journal of Oceanic Engineering* 31: 95–106.

- 211** Krakauer, A. H., M. Tyrrell, K. Lehmann, N. Losin, F. Goller, and G. L. Patricelli. 2009. Vocal and anatomical evidence for two-voiced sound production in the greater sage-grouse *Centrocercus urophasianus*. *Journal of Experimental Biology* 212: 3719–3727.
- 212** Kratochvil, H. 1978. Der Bau des Lautapparatus vom Knurrenden Gurami (*Trichopsis vittatus* Cuvier et Valenciennes) (Anabantidae, Belontiidae). *Zoomorphologie* 91: 91–99.
- 213** Kratochvil, H. 1985. Beiträge zur Lautbiologie der Anabantoidea-Bau, Funktion und Entwicklung von lauterzeugenden Systeme. *Zoologische Jahrbücher Physiologie* 89: 203–255.
- 214** Kraus, W. F. 1989. Surface-wave communication during courtship in the giant water bug, *Abedus indentatus* (Heteroptera, Belostomatidae). *Journal of the Kansas Entomological Society* 62: 316–328.
- 215** Kühme, V. W. 1961. Behavioral studies of a mouthbrooding (*Betta anabatoides* Bleeker) and a nestbuilding fighting fish (*B. splendens* Regan). *Zeitschrift für Tierpsychologie* 18: 33–55.
- 216** Ladich, F., C. Bischof, G. Schleinzer, and A. Fuchs. 1992. Intra- and interspecific differences in agonistic vocalization in croaking gouramis (Genus: *Trichopsis*, Anabantoidei, Teleostei). *Bioacoustics* 4: 131–141.
- 217** Ladich, F. 1997. Comparative analysis of swim bladder (drumming) and pectoral (stridulation) sounds in three families of catfishes. *Bioacoustics* 8: 185–208.
- 218** Ladich, F. and A. H. Bass. 1998. Sonic/vocal motor pathways in catfishes: Comparisons with other teleosts. *Brain Behavior and Evolution* 51: 315–330.
- 219** Ladich, F. 2004. Sound production and acoustic communication. In *The Senses of Fish: Adaptations for the Reception of Natural Stimuli* (G. von der Emde, J. Mogdans, and B. G. Kapoor, eds.), pp. 210–230. Boston, MA: Kluwer Academic Publishers.
- 220** Ladich, F. and M. L. Fine. 2006. Sound-generating mechanisms in fishes: a unique diversity in vertebrates. In *Communication in Fishes, Vol. I* (F. Ladich, S. P. Collin, P. Moller, and B. G. Kapoor, eds.), pp. 3–43. Enfield, NH: Science Publishers.
- 221** Ladich, F. 2007. Females whisper briefly during sex: context- and sex-specific differences in sounds made by croaking gouramis. *Animal Behaviour* 73: 379–397.

- 222** Lanzing, W. J.R. 1974. Sound production in the cichlid *Tilapia mozambica* Peters. *Journal of Fish Biology* 6: 341–347.
- 223** Lapshin, D. N. and D. D. Vorontsov. 2000. Ultrasonic emission of noctuid moths (Lepidoptera, Noctuidae): Main characteristics of signals and possible mechanisms of their generation. *Zoologichesky Zhurnal* 79: 1189–1201.
- 224** Lardner, B. and M. bin Lakim. 2002. Tree-hole frogs exploit resonance effects. *Nature* 420: 475–475.
- 225** Lardner, B. and M. B. Lakim. 2004. Female call preferences in tree-hole frogs: why are there so many unattractive males? *Animal Behaviour* 68: 265–272.
- 226** Larsen, O. N. and F. Goller. 1999. Role of syringeal vibrations in bird vocalizations. *Proceedings of the Royal Society of London Series B-Biological Sciences* 266: 1609–1615.
- 227** Larsen, O. N. and F. Goller. 2002. Direct observation of syringeal muscle function in songbirds and a parrot. *Journal of Experimental Biology* 205: 25–35.
- 228** Larsen, O. N., F. Goller, and J. L. van Leeuwen. 2006. Aspects of syringeal mechanics in avian phonation. *Acta Zoologica Sinica* 52(Suppl): 478–481.
- 229** Lavigne, D. M. and K. M. Kovacs. 1988. *Harps and Hoods: Ice-breeding Seals of the Northwest Atlantic*. Waterloo, Ontario: University of Waterloo Press.
- 230** Lema, S. C. and J. T. Kelly. 2002. The production of communication signals at the air-water and water-substrate boundaries. *Journal of Comparative Psychology* 116: 145–150.
- 231** Leston, D. and J. W.S. Pringle. 1963. Acoustical behaviour of Hemiptera. In *Acoustic Behaviour of Animals* (R.-G. Busnel, ed.), pp. 391–411. Amsterdam: Elsevier Publishing Company.
- 232** Lewis, E. R. and P. M. Narins. 1985. Do frogs communicate with seismic signals? *Science* 227: 187–189.
- 233** Lewis, E. R., P. M. Narins, K. A. Cortopassi, W. M. Yamada, E. H. Poinar, S. W. Moore, and X. L. Yu. 2001. Do male white-lipped frogs use seismic signals for intraspecific communication? *American Zoologist* 41: 1185–1199.
- 234** Lieberman, P. 1984. *The Biology and Evolution of Language*. Cambridge, MA: Harvard University Press.

- 235** Lorier, E., M. D. Garcia, M. E. Clemente, and J. J. Presa. 2002. Calling Behavior and morphology of the stridulatory apparatus in neotropical grasshoppers (*Aleuas stal*; Orthoptera). *Studies on Neotropical Fauna and Environment* 37: 71–78.
- 236** Lourenco, W. R. and J. L. Cloudsley-Thompson. 1995. Stridulatory apparatus and the evolutionary significance of sound production in *Rhopalurus* species (Scorpiones: Buthidae). *Journal of Arid Environments* 31: 423–429.
- 237** Lyal, C. H.C. and T. King. 1996. Elytro-tergal stridulation in weevils (Insecta: Coleoptera: Curculionoidea). *Journal of Natural History* 30: 703–773.
- 238** Madsen, P. T., R. Payne, N. U. Kristiansen, M. Wahlberg, I. Kerr, and B. Mohl. 2002. Sperm whale sound production studied with ultrasound time/depth-recording tags. *Journal of Experimental Biology* 205: 1899–1906.
- 239** Madsen, P. T., D. A. Carder, W. W. L. Au, P. E. Nachtigall, B. Mohl, and S. H. Ridgway. 2003. Sound production in neonate sperm whales (L). *Journal of the Acoustical Society of America* 113: 2988–2991.
- 240** Mankin, R. W., E. Petersson, N. D. Epsky, R. R. Heath, and J. Sivinski. 2000. Exposure to male pheromones enhances *Anastrepha suspensa* (Diptera : Tephritidae) female response to male calling song. *Florida Entomologist* 83: 411–421.
- 241** Mann, J., R. C. Connor, P. L. Tyack, and H. Whitehead, eds. 2000. *Cetacean Societies: Field Studies of Dolphins and Whales*. Vol. Chicago University Press: Chicago, IL.
- 242** Manrique, G. and P. E. Schilman. 2000. Two different vibratory signals in *Rhodnius prolixus* (Hemiptera : Reduviidae). *Acta Tropica* 77: 271–278.
- 243** Markl, H. 1983. Vibrational communication. In *Neuroethology and Behavioral Physiology* (F. Huber and H. Markl, eds.), pp. 332–353. Berlin: Springer.
- 244** Martin, W. F. 1971. Mechanics of sound production in toads of the genus *Bufo* : passive elements. *Journal of Experimental Zoology* 176: 273–294.
- 245** Martin, W. F. 1972. Evolution of vocalization in the toad genus *Bufo*. In *Evolution in the Genus Bufo* (W. F. Blair, ed.), pp. 279–309. Austin: University of Texas Press.
- 246** Martin, W. F. and C. Gans. 1972. Muscular control of the vocal tract during release signalling in the toad *Bufo valliceps*. *Journal of Morphology* 137: 1–28.

- 247** McClelland, B. E., W. Wilczynski, and M. J. Ryan. 1996. Correlations between call characteristics and morphology in male cricket frogs (*Acris crepitans*). *Journal of Experimental Biology* 199: 1907–1919.
- 248** McClelland, B. E., W. Wilczynski, and M. J. Ryan. 1998. Intraspecific variation in laryngeal and ear morphology in male cricket frogs (*Acris crepitans*). *Biological Journal of the Linnean Society* 63: 51–67.
- 249** McElligott, A. G., M. Birrer, and E. Vannoni. 2006. Retraction of the mobile descended larynx during groaning enables fallow bucks (*Dama dama*) to lower their formant frequencies. *Journal of Zoology* 270: 340–345.
- 250** McLelland, J. 1979. Digestive system. In *Form and Function in Birds, Vol. 1* (A. S. King and J. McLelland, eds.), pp. 69–181. New York: Academic Press.
- 251** McLelland, J. 1989. Larynx and trachea. In *Form and Function in Birds, Vol. 4* (A. S. King and J. McLelland, eds.), pp. 69–103. New York: Academic Press.
- 252** Mengel, R. M., R. S. Sharpe, and G. E. Woolfenden. 1972. Wing clapping in territorial and courtship behavior of the Chuck-will's-widow and the Poor-will (Caprimulgidae). *The Auk* 89: 440–444.
- 253** Mergell, P., W. T. Fitch, and H. Herzel. 1999. Modeling the role of nonhuman vocal membranes in phonation. *Journal of the Acoustical Society of America* 105: 2020–2028.
- 254** Michelsen, A., F. Fink, M. Gogala, and D. Traue. 1982. Plants as transmission channels for insect vibrational songs. *Behavioral Ecology and Sociobiology* 11: 269–281.
- 255** Michelsen, A. 1983. Biophysical basis of sound communication. In *Bioacoustics: A Comparative Approach* (B. Lewis, ed.), pp. 3–38. New York: Academic Press.
- 256** Michelsen, A., W. H. Kirchner, and M. Lindauer. 1986. Sound and vibrational signals in the dance language of the honeybee, *Apis mellifera*. *Behavioral Ecology and Sociobiology* 18: 207–212.
- 257** Michelsen, A., W. F. Towne, W. H. Kirchner, and P. Kryger. 1987. The acoustic near-field of a dancing honeybee. *Journal of Comparative Physiology A-Sensory Neural and Behavioral Physiology* 161: 633–643.
- 258** Miller, A. H. 1925. The boom-flight of the Pacific nighthawk. *Condor* 27: 141–143.
- 259** Miskelly, C. M. 1990. Aerial displaying and flying ability of Chatham Island snipe *Coenocorypha pussila* and New Zealand snipe *C. aucklandica*. *Emu* 90: 28–32.

- 260** Miyatake, T. and K. Kanmiya. 2004. Male courtship song in circadian rhythm mutants of *Bactrocera cucurbitae* (Tephritidae : Diptera). *Journal of Insect Physiology* 50: 85–91.
- 261** Mohl, B., P. T. Madsen, M. Wahlberg, W. W. L. Au, P. E. Nachtigall, and S. H. Ridgway. 2003. Sound transmission in the spermaceti complex of a recently expired sperm whale calf. *Acoustics Research Letters Online* 4: 19–24.
- 262** Mohl, B., M. Wahlberg, P. T. Madsen, A. Heerfordt, and A. Lund. 2003. The monopulsed nature of sperm whale clicks. *Journal of the Acoustical Society of America* 114: 1143–1154.
- 263** Monge-Najera, J., F. Hernandez, M. I. Gonzalez, J. Soley, J. Araya, and S. Zolla. 1998. Spatial distribution, territoriality and sound production by tropical cryptic butterflies (Hamadryas, Lepidoptera : Nymphalidae): Implications for the “industrial melanism” debate. *Revista De Biologia Tropical* 46: 297–329.
- 264** Montealegre-Z, F. and G. K. Morris. 2004. The spiny devil katydids, *Panacanthus Walker* (Orthoptera : Tettigoniidae): an evolutionary study of acoustic behaviour and morphological traits. *Systematic Entomology* 29: 21–57.
- 265** Montealegre-Z, F. and A. C. Mason. 2005. The mechanics of sound production in *Panacanthus pallicornis* (Orthoptera : Tettigoniidae : Conocephalinae): the stridulatory motor patterns. *Journal of Experimental Biology* 208: 1219–1237.
- 266** Moore, B. A., A. P. Russell, and A. M. Bauer. 1991. Structure of the larynx of the tokay gecko (*Gekko gecko*), with particular reference to the vocal cords and glottal lips. *Journal of Morphology* 210: 227–238.
- 267** Moulton, J. M. 1958. The acoustical behavior of some fishes in the Bimini area. *Biological Bulletin* 114: 357–374.
- 268** Nakano, R., Y. Ishikawa, S. Tatsuki, A. Surlykke, N. Skals, and T. Takanashi. 2006. Ultrasonic courtship song in the Asian corn borer moth, *Ostrinia furnacalis*. *Naturwissenschaften* 93: 292–296.
- 269** Narins, P. M. 1990. Seismic communication in anuran amphibians. *Bioscience* 40: 268–274.
- 270** Negus, V. E. 1949. *The Comparative Anatomy and Physiology of the Larynx*. New York: Hafner Publishing Company.
- 271** Nelson, M. C. and J. Fraser. 1980. Sound production in the cockroach, *Gomphadorina portentosa*: evidence for communication by hissing. *Behavioral Ecology and Sociobiology* 6: 305–314.

- 272** Nevo, E., G. Heth, and H. Pratt. 1991. Seismic communication in a blind subterranean mammal: a major somatosensory mechanism in adaptive evolution underground. *Proceedings of the National Academy of Sciences of the United States of America* 88: 1256–1260.
- 273** Norris, K. S. and G. W. Harvey. 1974. Sound transmission in the porpoise head. *Journal of the Acoustical Society of America* 56: 659–664.
- 274** Nottebohm, F. 1971. Neural lateralization of vocal control in a passerine bird. I. Song. *Journal of Experimental Zoology* 177: 229–262.
- 275** Nottebohm, F. 1976. Phonation in the orange-winged Amazon parrot, *Amazona amazonica*. *Journal of Comparative Physiology A-Sensory Neural and Behavioral Physiology* 108: 157–170.
- 276** Nottebohm, F. and M. E. Nottebohm. 1976. Left hypoglossal dominance in the control of canary and white-crowned sparrow song. *Journal of Comparative Physiology* 108: 171–192.
- 277** Nowicki, S. and R. Capranica. 1986. Bilateral syringeal interaction in vocal production of an oscine bird sound. *Science* 231: 1297–1299.
- 278** Nowicki, S. 1989. Peripheral lateralization of bird-song reanalyzed: comparison of multiple techniques for unilateral disablement of syringeal function in sparrows. In *Neural Mechanisms of Behavior* (J. Erber, R. Menzel, H.-J. Pflueger, and D. Todt, eds.), p. 121. New York: Georg Thieme & Verlag.
- 279** O'Connell-Rodwell, C. E., B. Arnason, and L. A. Hart. 2000. Exploring the possibility of low-frequency seismic communication in elephants and other large mammals. *American Zoologist* 40: 1154–1155.
- 280** O'Connell-Rodwell, C. E., B. T. Arnason, and L. A. Hart. 2000. Seismic properties of Asian elephant (*Elephas maximus*) vocalizations and locomotion. *Journal of the Acoustical Society of America* 108: 3066–3072.
- 281** O'Connell-Rodwell, C. E., L. A. Hart, and B. T. Arnason. 2001. Exploring the potential use of seismic waves as a communication channel by elephants and other large mammals. *American Zoologist* 41: 1157–1170.
- 282** O'Connell-Rodwell, C. E., J. D. Wood, T. C. Rodwell, S. Puria, S. R. Partan, R. Keefe, D. Shriver, B. T. Arnason, and L. A. Hart. 2006. Wild elephant (*Loxodonta africana*) breeding herds respond to artificially transmitted seismic stimuli. *Behavioral Ecology and Sociobiology* 59: 842–850.

- 283** Oester, P. T., J. A. Rudinsky, and L. C. Ryker. 1981. Olfactory and acoustic behavior of *Pseudohylesinus nebulosus* (Coleoptera, Scolytidae) on Douglas fir bark. *Canadian Entomologist* 113: 645–650.
- 284** Ohya, E. and H. Kinuura. 2001. Close range sound communications of the oak platypodid beetle *Platypus quercivorus* (Murayama) (Coleoptera : Platypodidae). *Applied Entomology and Zoology* 36: 317–321.
- 285** Oliveira, S. G., M. Bottecchia, L. Bauzer, N. A. Souza, R. D. Ward, C. P. Kyriacou, and A. A. Peixoto. 2001. Courtship song genes and speciation in sand flies. *Memorias Do Instituto Oswaldo Cruz* 96: 403–405.
- 286** Ossiannilsson, F. 1949. Insect drummers. A study of the morphology and function of the sound-producing organ of Swedish Homoptera Auchenorrhynca with notes on their sound production. *Opuscula Entomologica Supplementum* 10: 1–146.
- 287** Palestini, C., G. Pavan, and M. Zunino. 1991. Acoustic signals in *Copris incertus* Say (Coleoptera, Scarabaeidae, Coprinae). *Ethology Ecology and Evolution* 143–146.
- 288** Parmentier, E., P. Vandewalle, and J. P. Lagardere. 2003. Sound-producing mechanisms and recordings in *Carapini* species (Teleostei, Pisces). *Journal of Comparative Physiology A-Neuroethology Sensory Neural and Behavioral Physiology* 189: 283–292.
- 289** Parmentier, E. and R. Diogo. 2006. Evolutionary trends of swim bladder sound mechanisms in some teleost fishes. In *Acoustic and Chemical Communication, Vol. I* (F. Ladich, S. P. Collin, P. Moller, and B. G. Kapoor, eds.), pp. 45–70. Enfield, NH: Science Publishers.
- 290** Patek, S. N. 2002. Squeaking with a sliding joint: mechanics and motor control of sound production in palinurid lobsters. *Journal of Experimental Biology* 205: 2375–2385.
- 291** Patek, S. N. and T. H. Oakley. 2003. Comparative tests of evolutionary trade-offs in a palinurid lobster acoustic system. *Evolution* 57: 2082–2100.
- 292** Patek, S. N. and R. L. Caldwell. 2006. The stomatopod rumble: low frequency sound production in *Hemisquilla californiensis*. *Marine and Freshwater Behaviour and Physiology* 39: 99–111.
- 293** Payne, R. B. 1977. Wingflap dialects in the flappet lark *Mirafra rufocinnamomea*. *Ibis* 115: 270–274.
- 294** Penna, M. and R. Solis. 1996. Influence of burrow acoustics on sound reception by frogs *Eupsophus* (Leptodactylidae). *Animal Behaviour* 51: 255–263.

- 295** Penna, M. and R. Solis. 1999. Extent and variation of sound enhancement inside burrows of the frog *Eupsophus emiliopugini* (Leptodactylidae). *Behavioral Ecology and Sociobiology* 47: 94–103.
- 296** Percy, D. M., G. S. Taylor, and M. Kennedy. 2006. Psyllid communication: acoustic diversity, mate recognition and phylogenetic signal. *Invertebrate Systematics* 20: 431–445.
- 297** Peretti, A., W. G. Eberhard, and R. D. Briceno. 2006. Copulatory dialogue: female spiders sing during copulation to influence male genitalic movements. *Animal Behaviour* 72: 413–421.
- 298** Petit, D., F. Picaud, and L. Elghadraoui. 2006. Geometric morphometrics of Acrididae wings (Orthoptera, Caelifera): sex, stridulation and character. *Annales De La Societe Entomologique De France* 42: 63–73.
- 299** Pettingill, O. S. 1936. The American woodcock *Philohela minor* (Gmelin). *Memoirs of the Boston Society of Natural History* 9: 1–391.
- 300** Podos, J. 2001. Correlated evolution of morphology and vocal signal structure in Darwin's finches. *Nature* 409: 185–188.
- 301** Podos, J. and S. Nowicki. 2004. Beaks, adaptation, and vocal evolution in Darwin's finches. *Bioscience* 54: 501–510.
- 302** Podos, J., J. A. Southall, and M. R. Rossi-Santos. 2004. Vocal mechanics in Darwin's finches: correlation of beak gape and song frequency. *Journal of Experimental Biology* 207: 607–619.
- 303** Popper, A. N., M. Salmon, and K. W. Horch. 2001. Acoustic detection and communication by decapod crustaceans. *Journal of Comparative Physiology A-Sensory Neural and Behavioral Physiology* 187: 83–89.
- 304** Potter, J. R. and M. Chitre. 1999. Ambient noise imaging in warm shallow seas; second-order moment and model-based imaging algorithms. *Journal of the Acoustical Society of America* 106: 3201–3210.
- 305** Pringle, J. W.W. 1954. A physiological analysis of cicada song. *Journal of Experimental Biology* 31: 525–560.
- 306** Prum, R. O. 1998. Sexual selection and the evolution of mechanical sound production in manakins (Aves : Pipridae). *Animal Behaviour* 55: 977–994.

- 307** Purgue, A. P. 1997. Tympanic sound radiation in the bullfrog *Rana catesbeiana*. *Journal of Comparative Physiology A-Sensory Neural and Behavioral Physiology* 181: 438–435.
- 308** Quirici, V. and F. G. Costa. 2005. Seismic communication during courtship in two burrowing tarantula spiders: An experimental study on *Eupalaestrus weijenberghi* and *Acanthoscurria suina*. *Journal of Arachnology* 33: 159–166.
- 309** Rahman, N., D. W. Dunham, and C. K. Govind. 2001. Mate recognition and pairing in the big-clawed snapping shrimp, *Alpheus heterochelis*. *Marine and Freshwater Behaviour and Physiology* 34: 213–226.
- 310** Rand, A. S. and R. Dudley. 1993. Frogs in helium: the anuran vocal sac is not a cavity resonator. *Physiological Zoology* 66: 793–806.
- 311** Randall, J. A. 2001. Evolution and function of drumming as communication in mammals. *American Zoologist* 41: 1143–1156.
- 312** Readhead, M. L. 1997. Snapping shrimp noise near Gladstone, Queensland. *Journal of the Acoustical Society of America* 101: 1718–1722.
- 313** Rendall, D., M. J. Owren, and P. S. Rodman. 1998. The role of vocal tract filtering in identity cueing in rhesus monkey (*Macaca mulatta*) vocalizations. *Journal of the Acoustical Society of America* 103: 602–614.
- 314** Rendall, D., S. Kollias, C. Ney, and P. Lloyd. 2005. Pitch (F₀) and formant profiles of human vowels and vowel-like baboon grunts: The role of vocalizer body size and voice-acoustic allometry. *Journal of the Acoustical Society of America* 117: 944–955.
- 315** Riede, T. and T. Fitch. 1999. Vocal tract length and acoustics of vocalization in the domestic dog (*Canis familiaris*). *Journal of Experimental Biology* 202: 2859–2867.
- 316** Riede, T., G. J. L. Beckers, W. Blevins, and R. A. Suthers. 2004. Inflation of the esophagus and vocal tract filtering in ring doves. *Journal of Experimental Biology* 207: 4025–4036.
- 317** Riede, T., E. Bronson, H. Hatzikirou, and K. Zuberbuhler. 2005. Vocal production mechanisms in a non-human primate: morphological data and a model. *Journal of Human Evolution* 48: 85–96.
- 318** Riede, T., R. A. Suthers, N. H. Fletcher, and W. E. Blevins. 2006. Songbirds tune their vocal tract to the fundamental frequency of their song. *Proceedings of the National Academy of Sciences of the United States of America* 103: 5543–5548.

- 319** Rittenhouse, D. R., A. P. Russell, and A. M. Bauer. 1998. The larynx and trachea of the barking gecko, *Ptenopus garrulus maculatus* (Reptilia : Gekkonidae) and their relation to vocalization. *South African Journal of Zoology* 33: 23–30.
- 320** Roces, F. and B. Holldobler. 1995. Vibrational communication between hitchhikers and foragers in leaf-cutting ants (*Atta cephalotes*). *Behavioral Ecology and Sociobiology* 37: 297–302.
- 321** Roces, F. and B. Holldobler. 1996. Use of stridulation in foraging leaf cutting ants: mechanical support during cutting or short range recruitment signal? *Behavioral Ecology and Sociobiology* 39: 293–299.
- 322** Rodriguez, R. L., L. E. Sullivan, and R. B. Cocroft. 2004. Vibrational communication and reproductive isolation in the *Enchenopa binotata* species complex of treehoppers (Hemiptera : Membracidae). *Evolution* 58: 571–578.
- 323** Rogers, P. H. and M. Cox. 1988. Underwater sound as a biological stimulus. In *Sensory Biology of Aquatic Animals* (J. Atema, R. R. Fay, A. N. Popper, and W. N. Tavolga, eds.), pp. 131–149. New York: Springer-Verlag.
- 324** Rogers, T. L. 2003. Factors influencing the acoustic behaviour of male phocid seals. *Aquatic Mammals* 29: 247–260.
- 325** Rome, L. C., D. A. Syme, S. Hollingworth, S. L. Lindstedt, and S. M. Baylor. 1996. The whistle and the rattle: The design of sound producing muscles. *Proceedings of the National Academy of Sciences of the United States of America* 93: 8095–8100.
- 326** Russell, A. P., D. R. Rittenhouse, and A. M. Bauer. 2000. Laryngotracheal morphology of Afro-Madagascan geckos: a comparative survey. *Journal of Morphology* 245: 241–268.
- 327** Ryan, M. J. and R. C. Drewes. 1990. Vocal morphology of the *Physalaemus pustulosus* species group (Leptodactylidae): morphological response to sexual selection for complex calls. *Biological Journal of the Linnean Society* 40: 37–52.
- 328** Sacchi, R., P. Galeotti, M. Fasola, and G. Gerzeli. 2004. Larynx morphology and sound production in three species of Testudinidae. *Journal of Morphology* 261: 175–183.
- 329** Saldamando, C. I., S. Miyaguchi, H. Tatsuta, H. Kishino, J. R. Bridle, and R. K. Butlin. 2005. Inheritance of song and stridulatory peg number divergence between *Chorthippus brunneus* and *C. jacobsi*, two naturally hybridizing grasshopper species (Orthoptera : Acrididae). *Journal of Evolutionary Biology* 18: 703–712.
- 330** Sales, G. and J. D. Pye. 1974. *Ultrasonic Communication*. London: Chapman and Hall.

- 331** Salmon, M. 1983. Acoustic “calling” by fiddler and ghost crabs. *Australian Museum Memoir* 18: 63–76.
- 332** Sanborn, A. F. and P. K. Phillips. 1995. Scaling of sound pressure level and body size in cicadas (Homoptera, Cicadidae, Tibicinidae). *Annals of the Entomological Society of America* 88: 479–484.
- 333** Sanborn, A. F. and P. K. Phillips. 1999. Analysis of acoustic signals produced by the cicada *Platypedia putnami* variety *lutea* (Homoptera : Tibicinidae). *Annals of the Entomological Society of America* 92: 451–455.
- 334** Sanderford, M. V., F. Coro, and W. E. Conner. 1998. Courtship behavior in *Empyreuma affinis* Roths. (Lepidoptera, arctiidae, Ctenuchinae): acoustic signals and tympanic organ response. *Naturwissenschaften* 85: 82–87.
- 335** Schachner, G. and F. Schaller. 1981. Schallerzeugung und Schallreaktionen beim Antennenwels (Mandim) *Rhambdia sebae*. *Val. Zool. Beitr.* 27: 375–392.
- 336** Schilman, P. E., C. R. Lazzari, and G. Manrique. 2001. Comparison of disturbance stridulations in five species of triatominae bugs. *Acta Tropica* 79: 171–178.
- 337** Schmidt, R. S. 1965. Larynx control and call production in frogs. *Copeia* 1965: 143–147.
- 338** Schmitz, B. and J. Herberholz. 1998. Snapping behaviour in intraspecific agonistic encounters in the snapping shrimp (*Alpheus heterochaelis*). *Journal of Biosciences* 23: 623–632.
- 339** Schneider, H. 1961. Neuere Ergebnisse der Lautforschung bei Fischen. *Naturwissenschaften* 48: 513–518.
- 340** Schneider, H. 1988. Peripheral and central mechanisms of vocalization. In *The Evolution of the Amphibian Auditory System* (B. Fritsch, M. Ryan, W. Wilczynski, T. E. Herrington, and W. Walkowiak, eds.), pp. 537–558. New York: John Wiley and Sons.
- 341** Schneider, R. 1964. Der Larynx der Saugertiere. In *Handbuch der Zoologie, Bd 8:35, Lieferung 5(7)* (J.-G. Helmcke, H. Lengerken, D. Starck, and H. Wermuth, eds.), pp. 1–128. Berlin: Walter de Gruyter.
- 342** Schneider, R., H.-J. Kuhn, and G. Kelemen. 1967. Der Larynx Des Mannlichen *Hypsignathus monstrosus* Allen 1861 (Pteropodidae Megachiroptera Mammalia). Ein Unikum in Der Morphologie Des Kehlkopfes. *Zeitschrift für Wissenschaftliche Zoologie* 175: 1–53.

- 343** Schön, M. A. 1970. On the mechanism of modulating the volume of the voice in howling monkeys. *Acta Oto-laryngologica* 70: 443–447.
- 344** Simmons, P. and D. Young. 1976. The tymbal mechanism and song patterns of the bladder cicada, *Cystosoma saundersii*. *Journal of Experimental Biology* 78: 27–45.
- 345** Sjare, B., I. Stirling, and C. Spencer. 2003. Structural variation in the songs of Atlantic walrus breeding the Canadian high arctic. *Aquatic Mammals* 29: 297–318.
- 346** Skals, N. and A. Surlykke. 1999. Sound production by abdominal tymbal organs in two moth species: The green silver-line and the scarce silver-line (Noctuoidea : Nolidae : Chloephorinae). *Journal of Experimental Biology* 202: 2937–2949.
- 347** Slikas, B. 1998. Recognizing and testing homology of courtship displays in storks (Aves : Ciconiiformes : Ciconiidae). *Evolution* 52: 884–893.
- 348** Spangler, H. G. 1987. Ultrasonic communication in *Corcyra cephalonica* (Stainton) (Lepidoptera, Pyralidae). *Journal of Stored Products Research* 23: 203–211.
- 349** Spangler, H. G. 1988. Moth hearing, defense, and communication. *Annual Review of Entomology* 33: 59–81.
- 350** Starck, D. and R. Schneider. 1960. Respirationsorgane. A. Larynx. *Primatologia* 3: 423–587.
- 351** Stark, R. D., D. J. Dodenhoff, and E. V. Johnson. 1998. A quantitative analysis of woodpecker drumming. *Condor* 100: 350–356.
- 352** Stein, R. C. 1968. Modulation in bird sounds. *Auk* 85: 229–243.
- 353** Stirling, I. and J. A. Thomas. 2003. Relationships between underwater vocalizations and mating systems in phocid seals. *Aquatic Mammals* 29: 227–246.
- 354** Stokes, D. R. and R. K. Josephson. 2004. Power and control muscles of cicada song: structural and contractile heterogeneity. *Journal of Comparative Physiology A-Neuroethology Sensory Neural and Behavioral Physiology* 190: 279–290.
- 355** Stratton, G. E. 2005. Evolution of ornamentation and courtship behavior in Schizocosa: Insights from a phylogeny based on morphology (Araneae, Lycosidae). *Journal of Arachnology* 33: 347–376.
- 356** Sueur, J. 2001. Audiospectrographical analysis of cicada sound production: a catalogue (Hemiptera, Cicadidae). *Deutsche Entomologische Zeitschrift* 48: 33–51.

- 357** Sueur, J. and T. Aubin. 2006. When males whistle at females: complex FM acoustic signals in cockroaches. *Naturwissenschaften* 93: 500–505.
- 358** Suthers, R. and F. Goller. 1997. Motor correlates of vocal diversity in songbirds. *Current Ornithology* 14: 235–288.
- 359** Suthers, R. 1999. The motor basis of vocal performance in songbirds. In *The Design of Animal Communication* (M. D. Hauser and M. Konishi, eds.), pp. 37–62. Cambridge, MA: Bradford Books, MIT Press.
- 360** Suthers, R. 2004. How birds sing and why it matters. In *Nature's Music: The Science of Birdsong* (P. Marler and H. Slabbekoorn, eds.), pp. 272–295. New York: Elsevier Academic Press.
- 361** Suthers, R. A. and J. M. Fattu. 1973. Mechanisms of sound production by echolocating bats. *American Zoologist* 13: 1215–1226.
- 362** Suthers, R. A. and D. H. Hector. 1982. Mechanism for the production of echolocating clicks by the grey swiftlet, *Collocalia spodiopygia*. *Journal of Comparative Physiology A-Neuroethology Sensory Neural and Behavioral Physiology* 148: 457–470.
- 363** Suthers, R. A. and D. H. Hector. 1985. The physiology of vocalization by the echolocating oilbird, *Steatornis caripensis*. *Journal of Comparative Physiology A-Sensory Neural and Behavioral Physiology* 156: 243–266.
- 364** Suthers, R. A. 1988. The production of echolocation signals by bats and birds. In *Animal Sonar* (P. E. Nachtigall and P. W. B. Moore, eds.), pp. 23–45. New York: Plenum Press.
- 365** Suthers, R. A., D. J. Hartley, and J. J. Wenstrup. 1988. The acoustic role of tracheal chambers and nasal cavities in the production of sonar pulses by the horseshoe bat, *Rhinolophus hildebrandti*. *Journal of Comparative Physiology A-Neuroethology Sensory Neural and Behavioral Physiology* 162: 799–813.
- 366** Suthers, R. A. 1990. Contributions to birdsong from the left and right sides of the intact syrinx. *Nature (London)* 347: 473–477.
- 367** Suthers, R. A. 1994. Variable asymmetry and resonance in the avian vocal tract - a structural basis for individually distinct vocalizations. *Journal of Comparative Physiology A-Sensory Neural and Behavioral Physiology* 175: 457–466.
- 368** Suthers, R. A., F. Goller, and R. S. Hartley. 1994. Motor dynamics of song production by mimic thrushes. *Journal of Neurobiology* 25: 917–936.

- 369** Suthers, R. A. 1997. Peripheral control and lateralization of birdsong. *Journal of Neurobiology* 33: 632–652.
- 370** Suthers, R. A., F. Goller, and C. Pytte. 1999. The neuromuscular control of birdsong. *Philosophical Transactions of the Royal Society of London Series B-Biological Sciences* 354: 927–939.
- 371** Suthers, R. A. 2001. Peripheral vocal mechanisms in birds: Are songbirds special? *Netherlands Journal of Zoology* 51: 217–242.
- 372** Suthers, R. A. 2004. Vocal mechanisms in birds and bats: a comparative view. *Anais Da Academia Brasileira De Ciencias* 76: 247–252.
- 373** Suthers, R. A., E. Vallet, A. Tanvez, and M. Kreutzer. 2004. Bilateral song production in domestic canaries. *Journal of Neurobiology* 60: 381–393.
- 374** Suthers, R. A. and S. A. Zollinger. 2004. Producing song - the vocal apparatus. In *Behavioral Neurobiology of Birdsong*, pp. 109–129. New York: New York Academy of Sciences.
- 375** Talyn, B. C. and H. B. Dowse. 2004. The role of courtship song in sexual selection and species recognition by female *Drosophila melanogaster*. *Animal Behaviour* 68: 1165–1180.
- 376** Tauber, E. and D. F. Eberl. 2003. Acoustic communication in *Drosophila*. *Behavioural Processes* 64: 197–210.
- 377** Tavolga, W. N. 1964. Sonic characteristics and mechanisms in marine fishes. In *Marine Bio-Acoustics* (W. N. Tavolga, eds), pp. 195–211. New York: Pergamon Press.
- 378** Tavolga, W. N. 1971. Sound production and detection. In *Fish Physiology, Vol. 5* (W. S. Hoar and D. J. Randall, eds.), pp. 135–205. New York: Academic Press.
- 379** Taylor, P. W., J. A. Roberts, and G. W. Uetz. 2005. Flexibility in the multi-modal courtship of a wolf spider, *Schizocosa ocreata*. *Journal of Ethology* 23: 71–75.
- 380** Titze, I. 1994. *Principles of Voice Production*. Englewood Cliffs, NJ: Prentice Hall.
- 381** Toth, E. and J. E. Duffy. 2005. Coordinated group response to nest intruders in social shrimp. *Biology Letters* 1: 49–52.
- 382** Tschuch, G. and D. J. Brothers. 1999. Modeling vibration and sound production in insects with nonresonant stridulatory organs. *Journal of the Acoustical Society of America* 106: 3706–3710.

- 383** Tuck, L. M. 1972. The snipes: a study of the genus *Capella*. *Canadian Wildlife Series Monographs* 5:
- 384** Tyack, P. L. and E. H. Miller. 2002. Vocal anatomy, acoustic communication, and echolocation. In *Marine Mammal Biology: An Evolutionary Approach* (R. Hoetzel, ed.), pp. 142–184. Oxford, UK: Blackwell Science.
- 385** Uetz, G. W. and J. A. Roberts. 2002. Multisensory cues and multimodal communication in spiders: Insights from video/audio playback studies. *Brain Behavior and Evolution* 59: 222–230.
- 386** van Casteren, A., J. R. Codd, J. D. Gardiner, H. McGhie, and A. R. Ennos. 2010. Sonation in the male common snipe (*Capella gallinago gallinago* L.) is achieved by a flag-like fluttering of their tail feathers and consequent vortex shedding. *Journal of Experimental Biology* 213: 1602–1608.
- 387** Versluis, M., B. Schmitz, A. von der Heydt, and D. Lohse. 2000. How snapping shrimp snap: Through cavitating bubbles. *Science* 289: 2114–2117.
- 388** Vigoreaux, J. 2005. *Nature's Versatile Engine: Insect Flight Muscle Inside and Out*. New York: Springer Verlag.
- 389** Villet, M. 1987. Sound pressure levels of some African cicadas (Homoptera, Cicadoidea). *Journal of the Entomological Society of Southern Africa* 50: 269–273.
- 390** Virant-Doberlet, M. and A. Čokl. 2004. Vibrational communication in insects. *Neotropical Entomology* 33: 121–134.
- 391** Vliet, K. A. 1989. Social Displays of the American Alligator (*Alligator mississippiensis*). *American Zoologist* 29: 1019–1031.
- 392** Vogel, S. 1994. *Life in Moving Fluids: The Physical Biology of Flow*. Princeton, NJ: Princeton University Press.
- 393** Wahlberg, M. and H. Westerberg. 2003. Sounds produced by herring (*Clupea harengus*) bubble release. *Aquatic Living Resources* 16: 271–275.
- 394** Walkowiak, W. 2006. Call production and neural basis of vocalization. In *Hearing and Sound Communication in Amphibians* (P. M. Narins, A. S. Feng, R. R. Fay, and A. N. Popper, eds.), pp. 87–112. New York, NY: Springer Sciences-Business Media, LLC.
- 395** Waters, S. and H. Whitehead. 1990. Aerial behaviour in sperm whales. *Canadian Journal of Zoology* 68: 2076–2082.

- 396** Weissenhuber, G. E., G. Forstenpointner, A. Kubber-Heiss, K. Riedelberger, H. Schwammer, and K. Ganzberger. 2001. Occurrence and structure of epipharyngeal pouches in bears (Ursidae). *Journal of Anatomy* 198: 309–314.
- 397** Weissenhuber, G. E., G. Forstenpointner, G. Peters, A. Kubber-Heiss, and W. T. Fitch. 2002. Hyoid apparatus and pharynx in the lion (*Panthera leo*), jaguar (*Panthera onca*), tiger (*Panthera tigris*), cheetah (*Acinonyx jubatus*) and domestic cat (*Felis silvestris f. catus*). *Journal of Anatomy* 201: 195–209.
- 398** Westneat, M. W., J. H. Long, W. Hoese, and S. Nowicki. 1993. Kinematics of birdsong - functional correlation of cranial movements and acoustic features in sparrows. *Journal of Experimental Biology* 182: 147–171.
- 399** Whang, A. and J. Janssen. 1994. Sound production through the substrate during reproduction in the mottles sculpin, *Cottus bairdi* (Cottidae). *Environmental Biology of Fishes* 40: 141–148.
- 400** Whitehead, H. 1985. Humpback whale breaching. In *Investigations on Cetacea* (G. Pilleri, ed.), pp. 117–155. Bern, Switzerland: Brain Anatomy Institute.
- 401** Whitson, M. A. 1968. Mating Behavior of Roadrunner *Geococcyx californianus*. *American Zoologist* 8: 750.
- 402** Wiggins, D. A., D. W. Holt, and S. M. Leasure. 2006. Short-eared owl (*Asio flammeus*). In *The Birds of North America Online* (A. Poole, ed.). Ithaca, NY: Cornell Laboratory of Ornithology.
- 403** Wilcox, R. S. 1995. Ripple communication in aquatic and semiaquatic insects. *Ecoscience* 2: 109–115.
- 404** Wilczynski, W., B. E. McClelland, and A. S. Rand. 1993. Acoustic, auditory, and morphological divergence in 3 species of neotropical frog. *Journal of Comparative Physiology A-Sensory Neural and Behavioral Physiology* 172: 425–438.
- 405** Wilson, B., R. S. Batty, and L. M. Dill. 2004. Pacific and Atlantic herring produce burst pulse sounds. *Proceedings of the Royal Society of London Series B-Biological Sciences* 271: S95-S97.
- 406** Winkler, H. and L. L. Short. 1978. A comparative analysis of acoustical signals in pied woodpeckers (Aves, Picoides). *Bulletins of the American Museum of Natural History* 160: 1–109.
- 407** Wood, G. A. 1984. Tool use by the palm cockatoo *Probosciger aterrimus*. *Corella* 8: 94–95.

- 408** Yack, J. E., L. D. Otero, J. W. Dawson, A. Surlykke, and J. H. Fullard. 2000. Sound production and hearing in the blue cracker butterfly *Hamadryas feronia* (Lepidoptera, Nymphalidae) from Venezuela. *Journal of Experimental Biology* 203: 3689–3702.
- 409** Yack, J. E., M. L. Smith, and P. J. Weatherhead. 2001. Caterpillar talk: acoustically mediated territoriality in larval Lepidoptera. *Proceedings of the National Academy of Sciences of the United States of America* 98: 11371–11375.
- 410** Young, B. A. 1991. Morphological basis of growling in the king cobra, *Ophiophagus hannah*. *Journal of Experimental Zoology* 260: 275–287.
- 411** Young, B. A. and I. P. Brown. 1995. The physical basis of the rattling sound in the rattlesnake *Crotalus viridis oreganus*. *Journal of Herpetology* 29: 80–85.
- 412** Young, B. A., S. Sheft, and W. Yost. 1995. Sound production in *Pituophis melanoleucus* (Serpentes: Colubridae) with the first description of a vocal cord in snakes. *Journal of Experimental Zoology* 273: 472–481.
- 413** Young, B. A. and J. Lalor. 1998. Sound production in the eastern hognose snake, *Heterodon platyrhinos* (Serpentes : Colubridae): Does it snore? *Amphibia-Reptilia* 19: 407–418.
- 414** Young, B. A., N. Nejman, K. Meltzer, and J. Marvin. 1999. The mechanics of sound production in the puff adder *Bitis arietans* (Serpentes : Viperidae) and the information content of the snake hiss. *Journal of Experimental Biology* 202: 2281–2289.
- 415** Young, B. A. 2003. Snake bioacoustics: toward a richer understanding of the behavioral ecology of snakes. *Quarterly Review of Biology* 78: 303–325.
- 416** Young, D. and H. C. Bennet-Clark. 1995. The role of the tymbal in cicada sound production. *Journal of Experimental Biology* 198: 1001–1019.
- 417** Zeller, U. 1984. On the evolutionary biology of the organs of vocalization of Epomophorine bats. *Zeitschrift für Säugetierkunde* 49: 207–220.
- 418** Zettel, K. and G. Thirumalai. 2000. *Stridulobates anderseni*, a new genus and species of ptilomerine Gerridae (Hemiptera : Heteroptera) with 'stridulatory devices' from South India. *Insect Systematics and Evolution* 31: 433–439.
- 419** Zimmer, W. M. X., P. T. Madsen, V. Teloni, M. P. Johnson, and P. L. Tyack. 2005. Off-axis effects on the multipulse structure of sperm whale usual clicks with implications for sound production. *Journal of the Acoustical Society of America* 118: 3337–3345.