

## References

- Amin, N., Doupe, A., & Theunissen, F. E. (2007). Development of selectivity for natural sounds in the songbird auditory forebrain. *J Neurophysiol*, 97(5), 3517-3531.
- Amin, N., Grace, J. A., & Theunissen, F. E. (2004). Neural response to bird's own song and tutor song in the zebra finch field L and caudal mesopallium. *J Comp Physiol A Neuroethol Sens Neural Behav Physiol*, 190(6), 469-489.
- Aslin, R. (1981). Experiential Influences and Sensitive periods in Perceptual development: A unified model. In Aslin, R., Alberts, R. and R.Petersen (Eds.), *Development of Perception: Psychobiological Perspectives, Volume 2*. NY: Academic Press.
- Baptista, L. & Petrinovich, L. (1986). Song development in the white-crowned sparrow: social factors and sex differences. *Animal behaviour*, 34(5), 1359-1372.
- Berko-Gleason, J. (1993). *The Development of Language*. 3<sup>rd</sup> Ed. NY: MacMillan Publishing Company.
- Borden, G., Harris, K., and Raphael, L. (2003). *Speech Science Primer*. NY: Lippincott, Williams and Wilkins.
- Bottjer, S. W. (2002). Neural strategies for learning during sensitive periods of development. *J Comp Physiol A Neuroethol Sens Neural Behav Physiol*, 188(11-12), 917-928.
- Bottjer, S. W. (2002). Neural strategies for learning during sensitive periods of development. *J Comp Physiol A Neuroethol Sens Neural Behav Physiol*, 188(11-12), 917-928.
- Bottjer, S. W., & Hower, S. J. (1992). Castration and antisteroid treatment impair vocal learning in male zebra finches. *J Neurobiol*, 23(4), 337-353.
- Boumans, T., Theunissen, F. E., Poirier, C., & Van Der Linden, A. (2007). Neural representation of spectral and temporal features of song in the auditory forebrain of zebra finches as revealed by functional MRI. *Eur J Neurosci*, 26(9), 2613-2626.
- Boulton, A., Baker, G., and Venderwolf, C. (1990). *Neurophysiological Techniques: Basic Methods and Concepts*. Humana Press
- Braaten, R. F., Petzoldt, M., & Colbath, A. (2006). Song perception during the sensitive period of song learning in zebra finches (*Taeniopygia guttata*). *J Comp Psychol*, 120(2), 79-88.
- Braaten, R. F., & Reynolds, K. (1999). Auditory preference for conspecific song in isolation-reared zebra finches. *Anim Behav*, 58(1), 105-111.
- Brainard, M. S., & Doupe, A. J. (2000). Auditory feedback in learning and maintenance of vocal behaviour. *Nat Rev Neurosci*, 1(1), 31-40.
- Brenowitz, E. A., Margoliash, D., & Nordeen, K. W. (1997). An introduction to birdsong and the avian song system. *J Neurobiol*, 33(5), 495-500.
- Brittan-Powell, E. F., & Dooling, R. J. (2004). Development of auditory sensitivity in budgerigars (*Melopsittacus undulatus*). *J Acoust Soc Am*, 115(6), 3092-3102.
- Butler, A. B., Manger, P. R., Lindahl, B. I., & Arhem, P. (2005). Evolution of the neural basis of consciousness: a bird-mammal comparison. *Bioessays*, 27(9), 923-936.

- Cardin, J. A., & Schmidt, M. F. (2003). Song system auditory responses are stable and highly tuned during sedation, rapidly modulated and unselective during wakefulness, and suppressed by arousal. *J Neurophysiol*, 90(5), 2884-2899.
- Caspari, I. (2005). Wernicke's Aphasia. In *Aphasia and related neurogenic language disorders*. Lapointe, L. (Ed.) 3<sup>rd</sup> Edition. NY: Thieme.
- Catchpole, C., & Slater, P. J. B. (2008). *Bird song : biological themes and variations* (2nd ed.). Cambridge [England] ; New York: Cambridge University Press.
- Chew, S. J., Vicario, D. S., & Nottebohm, F. (1996). A large-capacity memory system that recognizes the calls and songs of individual birds. *Proc Natl Acad Sci U S A*, 93(5), 1950-1955.
- Corwin, J. T., Bullock, T. H., & Schweitzer, J. (1982). The auditory brain stem response in five vertebrate classes. *Electroencephalogr Clin Neurophysiol*, 54(6), 629-641.
- Cousillas, H., Richard, J. P., Mathelier, M., Henry, L., George, I., & Hausberger, M. (2004). Experience-dependent neuronal specialization and functional organization in the central auditory area of a songbird. *Eur J Neurosci*, 19(12), 3343-3352.
- Crandall, S. R., Adam, M., Kinnischtzke, A. K., & Nick, T. A. (2007). HVC neural sleep activity increases with development and parallels nightly changes in song behavior. *J Neurophysiol*, 98(1), 232-240.
- Curtiss, S., Fromkin, V., Krashen, S., Rigler, D., and Rigler, M. (1974). The Linguistic Development of Genie. *Language*, 50(3), 528-554.
- Cynx, J., & Nottebohm, F. (1992). Role of gender, season, and familiarity in discrimination of conspecific song by zebra finches (*Taeniopygia guttata*). *Proc Natl Acad Sci U S A*, 89(4), 1368-1371.
- Cynx, J., Williams, H., & Nottebohm, F. (1992). Hemispheric differences in avian song discrimination. *Proc Natl Acad Sci U S A*, 89(4), 1372-1375.
- Dave, A. S., Yu, A. C., & Margoliash, D. (1998). Behavioral state modulation of auditory activity in a vocal motor system. *Science*, 282(5397), 2250-2254.
- DeCasper, A. J., & Fifer, W. P. (1980). Of human bonding: newborns prefer their mothers' voices. *Science*, 208(4448), 1174-1176.
- DeCasper, A. and Spence, M. (1986). Prenatal maternal speech influences newborns' perception of speech sounds. *Infant Behavior and Development*, 9, 133-150.
- Dehaene-Lambertz, G., Dehaene, S., & Hertz-Pannier, L. (2002). Functional neuroimaging of speech perception in infants. *Science*, 298(5600), 2013-2015.
- Dooling, R. J. (1973). Behavioral audiometry with the parakeet *Melopsittacus undulatus*. *J Acoust Soc Am*, 53(6), 1757-1758.
- Dooling, R. and Walsh, J. (1976). Auditory evoked response correlates of hearing in the parakeet (*Melopsittacus undulatus*). *Physiological Psychology*, 4, 224-232.
- Dooling, R., & Searcy, M. (1980). Early perceptual selectivity in the swamp sparrow. *Dev Psychobiol*, 13(5), 499-506.

- Dooling, R. J., & Saunders, J. C. (1975). Hearing in the parakeet (*Melopsittacus undulatus*): absolute thresholds, critical ratios, frequency difference limens, and vocalizations. *J Comp Physiol Psychol*, 88(1), 1-20.
- Doupe, A. J., & Kuhl, P. K. (1999). Birdsong and human speech: common themes and mechanisms. *Annu Rev Neurosci*, 22, 567-631.
- Eggermont, J. J. (2001). Between sound and perception: reviewing the search for a neural code. *Hear Res*, 157(1-2), 1-42.
- Eggermont, J. J., & Ponton, C. W. (2002). The neurophysiology of auditory perception: from single units to evoked potentials. *Audiol Neurootol*, 7(2), 71-99.
- Eimas, P. D., Siqueland, E. R., Jusczyk, P., & Vigorito, J. (1971). Speech perception in infants. *Science*, 171(968), 303-306.
- Espino, G. G., Lewis, C., Rosenfield, D. B., & Helekar, S. A. (2003). Modulation of theta/alpha frequency profiles of slow auditory-evoked responses in the songbird zebra finch. *Neuroscience*, 122(2), 521-529.
- Fortune, E. S., & Margoliash, D. (1992). Cytoarchitectonic organization and morphology of cells of the field L complex in male zebra finches (*Taenopygia guttata*). *J Comp Neurol*, 325(3), 388-404.
- George, I., Cousillas, H., Richard, J. P., & Hausberger, M. (2003). A new extensive approach to single unit responses using multisite recording electrodes: application to the songbird brain. *J Neurosci Methods*, 125(1-2), 65-71.
- George, I., Cousillas, H., Richard, J. P., & Hausberger, M. (2005). State-dependent hemispheric specialization in the songbird brain. *J Comp Neurol*, 488(1), 48-60.
- George, I., Vernier, B., Richard, J. P., Hausberger, M., & Cousillas, H. (2004). Hemispheric specialization in the primary auditory area of awake and anesthetized starlings (*Sturnus vulgaris*). *Behav Neurosci*, 118(3), 597-610.
- Goller, F., & Cooper, B. G. (2004). Peripheral motor dynamics of song production in the zebra finch. *Ann N Y Acad Sci*, 1016, 130-152.
- Grace, J. A., Amin, N., Singh, N. C., & Theunissen, F. E. (2003). Selectivity for conspecific song in the zebra finch auditory forebrain. *J Neurophysiol*, 89(1), 472-487.
- Gunturkun, O. (2005). The avian 'prefrontal cortex' and cognition. *Curr Opin Neurobiol*, 15(6), 686-693.
- Hahnloser, R. H., Kozhevnikov, A. A., & Fee, M. S. (2002). An ultra-sparse code underlies the generation of neural sequences in a songbird. *Nature*, 419(6902), 65-70.
- Hornak, J. The Basics of MRI web-book from RIT <http://www.cis.rit.edu/htbooks/mri/index.html>
- Hsu, H., Fogel, A. and Cooper, R. (2000). Infant Vocal Development during the First 6 Months: Speech Quality and Melodic Complexity. *Inf. Child Dev.*, 9, 1-16.
- Hubel, D. H., Wiesel, T. N., & Stryker, M. P. (1978). Anatomical demonstration of orientation columns in macaque monkey. *J Comp Neurol*, 177(3), 361-380.

- Huettel, S., Song, A. and McCarthy, G. (2004). *Functional Magnetic Resonance Imaging*. MA: Sinauer Press.
- Janik, V. M., & Slater, P. J. (2000). The different roles of social learning in vocal communication. *Anim Behav*, 60(1), 1-11.
- Jarvis, E. D. (2004). Learned birdsong and the neurobiology of human language. *Ann N Y Acad Sci*, 1016, 749-777.
- Jarvis, E. (2007). Neural systems for vocal learning in birds and humans: a synopsis. *J Ornithol*, 148 (Suppl 1), S35-S44
- Jarvis, E. D., Gunturkun, O., Bruce, L., Csillag, A., Karten, H., Kuenzel, W., et al. (2005). Avian brains and a new understanding of vertebrate brain evolution. *Nat Rev Neurosci*, 6(2), 151-159.
- Jarvis, E. D., & Nottebohm, F. (1997). Motor-driven gene expression. *Proc Natl Acad Sci U S A*, 94(8), 4097-4102.
- Jarvis, E. D., Scharff, C., Grossman, M. R., Ramos, J. A., & Nottebohm, F. (1998). For whom the bird sings: context-dependent gene expression. *Neuron*, 21(4), 775-788.
- Johnson, J. S., & Newport, E. L. (1989). Critical period effects in second language learning: the influence of maturational state on the acquisition of English as a second language. *Cogn Psychol*, 21(1), 60-99.
- Jusczyk, P. W., Pisoni, D. B., Walley, A., & Murray, J. (1980). Discrimination of relative onset time of two-component tones by infants. *J Acoust Soc Am*, 67(1), 262-270.
- Keil, A., Muller, M. M., Ray, W. J., Gruber, T., & Elbert, T. (1999). Human gamma band activity and perception of a gestalt. *J Neurosci*, 19(16), 7152-7161.
- Kelly, A. S., Purdy, S. C., & Thorne, P. R. (2005). Electrophysiological and speech perception measures of auditory processing in experienced adult cochlear implant users. *Clin Neurophysiol*, 116(6), 1235-1246.
- 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(3), 307-318.
- Kim, U., & McCormick, D. A. (1998). Functional and ionic properties of a slow afterhyperpolarization in ferret perigeniculate neurons in vitro. *J Neurophysiol*, 80(3), 1222-1235.
- Knight, R. T., Brailowsky, S., Scabini, D., & Simpson, G. V. (1985). Surface auditory evoked potentials in the unrestrained rat: component definition. *Electroencephalogr Clin Neurophysiol*, 61(5), 430-439.
- Konishi, M. (1965). The role of auditory feedback in the control of vocalization in the white-crowned sparrow. *Z Tierpsychol*, 22(7), 770-783.
- Korsia, S., & Bottjer, S. W. (1991). Chronic testosterone treatment impairs vocal learning in male zebra finches during a restricted period of development. *J Neurosci*, 11(8), 2362-2371.
- Kruggel, F., Wiggins, C. J., Herrmann, C. S., & von Cramon, D. Y. (2000). Recording of the event-related potentials during functional MRI at 3.0 Tesla field strength. *Magn Reson Med*, 44(2), 277-282.

- Kuhl, P., & Rivera-Gaxiola, M. (2008). Neural substrates of language acquisition. *Annu Rev Neurosci*, 31, 511-534.
- Kuhl, P. K. (2004). Early language acquisition: cracking the speech code. *Nat Rev Neurosci*, 5(11), 831-843.
- Kuhl, P. K., & Miller, J. D. (1975). Speech perception by the chinchilla: voiced-voiceless distinction in alveolar plosive consonants. *Science*, 190(4209), 69-72.
- Kuhl, P. K., Williams, K. A., Lacerda, F., Stevens, K. N., & Lindblom, B. (1992). Linguistic experience alters phonetic perception in infants by 6 months of age. *Science*, 255(5044), 606-608.
- Lai, C. S., Fisher, S. E., Hurst, J. A., Vargha-Khadem, F., & Monaco, A. P. (2001). A forkhead-domain gene is mutated in a severe speech and language disorder. *Nature*, 413(6855), 519-523.
- Lauay, C., Komorowski, R. W., Beaudin, A. E., & Devoogd, T. J. (2005). Adult female and male zebra finches show distinct patterns of spine deficits in an auditory area and in the song system when reared without exposure to normal adult song. *J Comp Neurol*, 487(2), 119-126.
- Lee, B. (1950) Some effects of side-tone delay. *J Acoust Soc Am*, 22, 639-640.
- Leonardo, A., & Konishi, M. (1999). Decrystallization of adult birdsong by perturbation of auditory feedback. *Nature*, 399(6735), 466-470.
- Logothetis, N. K. (2002). The neural basis of the blood-oxygen-level-dependent functional magnetic resonance imaging signal. *Philos Trans R Soc Lond B Biol Sci*, 357(1424), 1003-1037.
- Logothetis, N. K. (2003). MR imaging in the non-human primate: studies of function and of dynamic connectivity. *Curr Opin Neurobiol*, 13(5), 630-642.
- Logothetis, N. K. (2008). What we can do and what we cannot do with fMRI. *Nature*, 453(7197), 869-878.
- Logothetis, N. K., & Wandell, B. A. (2004). Interpreting the BOLD signal. *Annu Rev Physiol*, 66, 735-769.
- Lucas, J. R., Freeberg, T. M., Krishnan, A., & Long, G. R. (2002). A comparative study of avian auditory brainstem responses: correlations with phylogeny and vocal complexity, and seasonal effects. *J Comp Physiol A Neuroethol Sens Neural Behav Physiol*, 188(11-12), 981-992.
- Luck, S.J. (2005). *An Introduction to the Event-Related Potential Technique*. Cambridge: MIT Press
- Makeig, S. (2002). Response: event-related brain dynamics -- unifying brain electrophysiology. *Trends Neurosci*, 25(8), 390.
- Marler, P., & Sherman, V. (1983). Song structure without auditory feedback: emendations of the auditory template hypothesis. *J Neurosci*, 3(3), 517-531.
- Marler, P., & Tamura, M. (1964). Culturally Transmitted Patterns of Vocal Behavior in Sparrows. *Science*, 146, 1483-1486.
- Matthews, G. (1986). *Cellular Physiology of nerve and muscle*. Boston: Blackwell Scientific Publications.
- Mello, C., Nottebohm, F., & Clayton, D. (1995). Repeated exposure to one song leads to a rapid and persistent decline in an immediate early gene's response to that song in zebra finch telencephalon. *J Neurosci*, 15(10), 6919-6925.

- Mello, C. V., Velho, T. A., & Pinaud, R. (2004). Song-induced gene expression: a window on song auditory processing and perception. *Ann N Y Acad Sci*, 1016, 263-281.
- Moon, C., Cooper, R., & Fifer, W. (1993). Two-day-olds prefer their native language. *Infant Behavior and Development*, 16, 495-500.
- Mooney, R. (1999). Sensitive periods and circuits for learned birdsong. *Curr Opin Neurobiol*, 9(1), 121-127.
- Mooney, R. (2000). Different subthreshold mechanisms underlie song selectivity in identified HVC neurons of the zebra finch. *J Neurosci*, 20(14), 5420-5436.
- Neuper, C., & Pfurtscheller, G. (2001). Event-related dynamics of cortical rhythms: frequency-specific features and functional correlates. *Int J Psychophysiol*, 43(1), 41-58.
- Nick, T. A., & Konishi, M. (2001). Dynamic control of auditory activity during sleep: correlation between song response and EEG. *Proc Natl Acad Sci U S A*, 98(24), 14012-14016.
- Nick, T. A., & Konishi, M. (2005). Neural auditory selectivity develops in parallel with song. *J Neurobiol*, 62(4), 469-481.
- Nick, T. A., & Konishi, M. (2005). Neural song preference during vocal learning in the zebra finch depends on age and state. *J Neurobiol*, 62(2), 231-242.
- Nixdorf-Bergweiler, B. and Bischof, H.-J. (2007) <http://www.ncbi.nlm.nih.gov/bookshelf/br.fcgi?book=atlas>
- Northern, J. and Downs. P. (1984). *Hearing in children*. 3<sup>rd</sup> Edition. Baltimore, MD: Williams & Wilkins.
- Norena, A., & Eggermont, J. J. (2002). Comparison between local field potentials and unit cluster activity in primary auditory cortex and anterior auditory field in the cat. *Hear Res*, 166(1-2), 202-213.
- Nottebohm, F., & Arnold, A. P. (1976). Sexual dimorphism in vocal control areas of the songbird brain. *Science*, 194(4261), 211-213.
- Oller, D. K. (2000). *The emergence of the speech capacity*. Mahwah, N.J.: Lawrence Erlbaum Associates.
- Oller, K. and Eilers, E. (1988). The Role of Audition in Infant Babbling. *Child Development*, 59(2), 441-449.
- Pfurtscheller, G., & Lopes da Silva, F. H. (1999). Event-related EEG/MEG synchronization and desynchronization: basic principles. *Clin Neurophysiol*, 110(11), 1842-1857.
- Phan, M. L., Pytte, C. L., & Vicario, D. S. (2006). Early auditory experience generates long-lasting memories that may subserve vocal learning in songbirds. *Proc Natl Acad Sci U S A*, 103(4), 1088-1093.
- Poirier, C., Boumans, T., Verhoye, M., Balthazart, J., & Van der Linden, A. (2009). Own-song recognition in the songbird auditory pathway: selectivity and lateralization. *J Neurosci*, 29(7), 2252-2258.
- Polka, L., & Werker, J. F. (1994). Developmental changes in perception of nonnative vowel contrasts. *J Exp Psychol Hum Percept Perform*, 20(2), 421-435.
- Ponton, C. W., Eggermont, J. J., Kwong, B., & Don, M. (2000). Maturation of human central auditory system activity: evidence from multi-channel evoked potentials. *Clin Neurophysiol*, 111(2), 220-236.

- Poustchi-Amin, M., Mirowitz, S. A., Brown, J. J., McKinstry, R. C., & Li, T. (2001). Principles and applications of echo-planar imaging: a review for the general radiologist. *Radiographics*, 21(3), 767-779.
- Price, P. (1979). Developmental determinants of structure in zebra finch song. *Journal of Comparative and Physiological Psychology*, 93(2), 260-277.
- Pytte, C. L., & Suthers, R. A. (2000). Sensitive period for sensorimotor integration during vocal motor learning. *J Neurobiol*, 42(2), 172-189.
- Reiner, A., Perkel, D. J., Mello, C. V., & Jarvis, E. D. (2004). Songbirds and the revised avian brain nomenclature. *Ann N Y Acad Sci*, 1016, 77-108.
- Reiner, A., Yamamoto, K., & Karten, H. J. (2005). Organization and evolution of the avian forebrain. *Anat Rec A Discov Mol Cell Evol Biol*, 287(1), 1080-1102.
- Riebel, K. (2000). Early exposure leads to repeatable preferences for male song in female zebra finches. *Proc Biol Sci*, 267(1461), 2553-2558.
- Riebel, K., Smallegange, I. M., Terpstra, N. J., & Bolhuis, J. J. (2002). Sexual equality in zebra finch song preference: evidence for a dissociation between song recognition and production learning. *Proc Biol Sci*, 269(1492), 729-733.
- Rodriguez, E., George, N., Lachaux, J. P., Martinerie, J., Renault, B., & Varela, F. J. (1999). Perception's shadow: long-distance synchronization of human brain activity. *Nature*, 397(6718), 430-433.
- Sakata, J. T., & Brainard, M. S. (2006). Real-time contributions of auditory feedback to avian vocal motor control. *J Neurosci*, 26(38), 9619-9628.
- Solis, M. M., & Doupe, A. J. (1997). Anterior forebrain neurons develop selectivity by an intermediate stage of birdsong learning. *J Neurosci*, 17(16), 6447-6462.
- Solis, M. M., & Doupe, A. J. (1999). Contributions of tutor and bird's own song experience to neural selectivity in the songbird anterior forebrain. *J Neurosci*, 19(11), 4559-4584.
- Solis, M. M., & Doupe, A. J. (2000). Compromised neural selectivity for song in birds with impaired sensorimotor learning. *Neuron*, 25(1), 109-121.
- Snowden, C. and Hausberger, M. (1997). Social Influences on Vocal Development.
- Stam, C. J. (2000). Brain dynamics in theta and alpha frequency bands and working memory performance in humans. *Neurosci Lett*, 286(2), 115-118.
- Stark, E., & Abeles, M. (2007). Predicting movement from multiunit activity. *J Neurosci*, 27(31), 8387-8394.
- Tchernichovski, O., Lints, T., Mitra, P. P., & Nottebohm, F. (1999). Vocal imitation in zebra finches is inversely related to model abundance. *Proc Natl Acad Sci U S A*, 96(22), 12901-12904.
- Tchernichovski, O., Mitra, P. P., Lints, T., & Nottebohm, F. (2001). Dynamics of the vocal imitation process: how a zebra finch learns its song. *Science*, 291(5513), 2564-2569.

- Terpstra, N. J., Bolhuis, J. J., Riebel, K., van der Burg, J. M., & den Boer-Visser, A. M. (2006). Localized brain activation specific to auditory memory in a female songbird. *J Comp Neurol*, 494(5), 784-791.
- Theunissen, F. E., Amin, N., Shaevitz, S. S., Woolley, S. M., Fremouw, T., & Hauber, M. E. (2004). Song selectivity in the song system and in the auditory forebrain. *Ann N Y Acad Sci*, 1016, 222-245.
- Tourville, J. A., Reilly, K. J., & Guenther, F. H. (2008). Neural mechanisms underlying auditory feedback control of speech. *Neuroimage*, 39(3), 1429-1443.
- Troyer, T. W., & Doupe, A. J. (2000). An associational model of birdsong sensorimotor learning I. Efference copy and the learning of song syllables. *J Neurophysiol*, 84(3), 1204-1223.
- Tsao, F. M., Liu, H. M., & Kuhl, P. K. (2004). Speech perception in infancy predicts language development in the second year of life: a longitudinal study. *Child Dev*, 75(4), 1067-1084.
- Van der Linden, A., Van Camp, N., Ramos-Cabrera, P., & Hoehn, M. (2007). Current status of functional MRI on small animals: application to physiology, pathophysiology, and cognition. *NMR Biomed*, 20(5), 522-545.
- Van der Linden, A., Van Meir, V., Boumans, T., Poirier, C., & Balthazart, J. (2009). MRI in small brains displaying extensive plasticity. *Trends Neurosci*.
- Van Meir, V., Boumans, T., De Groof, G., Van Audekerke, J., Smolders, A., Scheunders, P., et al. (2005). Spatiotemporal properties of the BOLD response in the songbirds' auditory circuit during a variety of listening tasks. *Neuroimage*, 25(4), 1242-1255.
- Vates, G. E., Broome, B. M., Mello, C. V., & Nottebohm, F. (1996). Auditory pathways of caudal telencephalon and their relation to the song system of adult male zebra finches. *J Comp Neurol*, 366(4), 613-642.
- Villacorta, V. M., Perkell, J. S., & Guenther, F. H. (2007). Sensorimotor adaptation to feedback perturbations of vowel acoustics and its relation to perception. *J Acoust Soc Am*, 122(4), 2306-2319.
- Volman, S. F. (1993). Development of neural selectivity for birdsong during vocal learning. *J Neurosci*, 13(11), 4737-4747.
- Voss, H. U., Tabelow, K., Polzehl, J., Tchernichovski, O., Maul, K. K., Salgado-Commissariat, D., et al. (2007). Functional MRI of the zebra finch brain during song stimulation suggests a lateralized response topography. *Proc Natl Acad Sci U S A*, 104(25), 10667-10672.
- Vouloumanos, A., & Werker, J. F. (2007). Listening to language at birth: evidence for a bias for speech in neonates. *Dev Sci*, 10(2), 159-164.
- Wang, J., Sokabe, M., & Sakaguchi, H. (2001). Functional connections between the HVC and the shelf of the zebra finch revealed by real-time optical imaging technique. *Neuroreport*, 12(2), 215-221.
- Werker, J. F., Gilbert, J. H., Humphrey, K., & Tees, R. C. (1981). Developmental aspects of cross-language speech perception. *Child Dev*, 52(1), 349-355.

- Werker, J.F. and Tees, R.C. (2002). Cross-language speech perception: Evidence for perceptual reorganization during the first year of life. *Infant Behavior & Development*, 25(1), 121-133.
- White, S. A., Fisher, S. E., Geschwind, D. H., Scharff, C., & Holy, T. E. (2006). Singing mice, songbirds, and more: models for FOXP2 function and dysfunction in human speech and language. *J Neurosci*, 26(41), 10376-10379.
- Williams, H. (1985). Sexual dimorphism of auditory activity in the zebra finch song system. *Behav Neural Biol*, 44(3), 470-484.
- Williams, H. (2001). Choreography of song, dance and beak movements in the zebra finch (*Taeniopygia guttata*). *J Exp Biol*, 204(Pt 20), 3497-3506.
- Williams, H., Crane, L. A., Hale, T. K., Esposito, M. A., & Nottebohm, F. (1992). Right-side dominance for song control in the zebra finch. *J Neurobiol*, 23(8), 1006-1020.
- Woolley, S. C., & Doupe, A. J. (2008). Social context-induced song variation affects female behavior and gene expression. *PLoS Biol*, 6(3), e62.
- Woolley, S. M., & Rubel, E. W. (1999). High-frequency auditory feedback is not required for adult song maintenance in Bengalese finches. *J Neurosci*, 19(1), 358-371.
- Yosinaga-Itano, C., Sedey, A.L., Coulter, D.K., and Mehl, A.L. (1998). Language of Early- and Later-identified Children With Hearing Loss. *Pediatrics*, 102(5), 1161-1171.
- Zann, R. A. (1996). *The zebra finch : a synthesis of field and laboratory studies*. Oxford ; New York: Oxford University Press.