

CURRICULUM VITAE

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Education

Ph.D. (Biophysics) 09/1996 – 05/2001, Laboratory of Visual Information Processing, Institute of Biophysics, Chinese Academy of Sciences, Beijing 100101, P. R. China.

B.S. (Biomedical Engineering) 09/1991 – 07/1996, Department of Biomedical Engineering, Capital University of Medical Sciences, Beijing 100054, P. R. China.

Research Experience

01/2006 – Present Senior Fellow
Department of Otolaryngology, University of Washington, Seattle, WA 98195-357923, U.S.A. Exploring molecular substrates of activity-dependent cell death and dendritic atrophy in auditory neurons.

05/2002 – 12/2005 Postgraduate Research Scientist
Department of Neurosciences, University of California, San Diego, 9500 Gilman Drive, La Jolla, CA 92093-0608, U.S.A. Studying neuronal connections in the visual systems.

09/1996 – 05/2001 Ph.D. Student
Laboratory of Visual Information Processing, Institute of Biophysics, Chinese Academy of Sciences, Beijing 100101, P. R. China. Conducting researches on circuit analysis and information processing of the visual system.

Fellowships and Awards

2006-2009 NIDCD-sponsored Ruth L. Kirschstein National Research Service Award (NRSA) for T32 Training Grant

2001 First-Class Prize of Natural Science Award, Chinese Academy of Sciences

2002 Excellence award for the President Fellowship, Chinese Academy of Sciences

1999 Di 'Ao Award of Chinese Academy of Sciences

1999, 2000 Scholarship Prize of Director of Institute of Biophysics, Chinese Academy of Sciences

Publications

1. Wang Y, Karten HJ (2009). Three subdivisions of the auditory midbrain in chicks (*Gallus gallus*) identified by their afferent and commissural projections. J Comp Neurol. Accepted.

2. Wang Y, Cunningham DE, Tempel BL, Rubel EW (2009) Compartment-specific regulation of plasma membrane calcium ATPase type 2 in the chick auditory brainstem. *J Comp Neurol* 514:624-640
3. Wang Y, Rubel EW (2008). Rapid regulation of microtubule-associated protein 2 in dendrites of nucleus laminaris of the chick following deprivation of afferent activity. *Neuroscience* 154:381-389.
4. Gruberg E, Dudkin E, Wang Y, Marín G, Salas C, Sentis E, Letelier J, Mpodozis J, Malpeli J, Cui H, Ma R, Northmore D, Udin S (2006). Influencing and interpreting visual input: the role of a visual feedback system. *J Neurosci* 26:10368-10371
5. Wang Y, Luksch H, Brecha NC, Karten HJ (2006). Columnar projections from the cholinergic nucleus isthmi to the optic tectum in chicks (*Gallus gallus*): a possible substrate for synchronizing tectal channels. *J Comp Neurol* 494: 7-35
6. Wang Y, Major DE, Karten HJ (2004). Morphology and connections of nucleus isthmi pars magnocellularis in chicks (*Gallu gallu*). *Journal of Comparative Neurology* 469: 275-297
7. Gu Y, Wang Y, Zhang T, Wang SR (2002). Stimulus size selectivity and receptive field organization of ectostriatal neurons in the pigeon. *Journal of Comparative Physiology A* 188: 173-178
8. Gu Y, Wang Y, Wang SR (2002). Visual responses of neurons in the nucleus of the basal optic root to stationary stimuli in pigeons. *Journal of Neuroscience Research* 67: 698-704
9. Wang Y, Gu Y, Wang SR (2001). Directional responses of basal optic neurons are modulated by the nucleus lentiformis mesencephali in pigeons. *Neuroscience Letters* 311: 33-36
10. Gu Y, Wang Y, Wang SR (2001). Directional modulation of visual responses of pretectal neurons by accessory optic neurons in pigeons. *Neuroscience* 104: 153-159
11. Wang Y, Xiao J, Wang SR (2000). Excitatory and inhibitory receptive fields of tectal cells are differentially modified by magnocellular and parvocellular divisions of the pigeon nucleus isthmi. *Journal of Comparative Physiology A* 186: 505-511
12. Wang Y, Gu Y, Wang SR (2000). Modulatory effects of the nucleus of the basal optic root on rotundal neurons in pigeons. *Brain, Behavior and Evolution* 56: 287-292
13. Wang Y, Gu Y, Wang SR (2000). Feature detection of visual neurons in the nucleus of the basal optic root in pigeons. *Brain Research Bulletin* 51: 165-169
14. Gu Y, Wang Y, Wang SR (2000). Regional variation in receptive field properties of tectal neurons in pigeons. *Brain, Behavior and Evolution* 55: 221-228
15. Xiao J, Wang Y, Wang SR (1999). Effects of glutamatergic, cholinergic and GABAergic antagonists on tectal cells in toads. *Neuroscience* 90: 1061-1067

Conference Papers, presentation, and other publications

1. Wang Y and Rubel EW (2007). FLIVO - a Novel Technique for Identifying Caspase-Mediated Cell Apoptosis in the Chick Cochlear Nuclei after Deafferentation. Association for Research in Otolaryngology Annual Meeting. Denver, U.S.A.
2. Wang Y (2006). Neuroanatomical substrate of feature detection in the bird isthmotectal system. Society for Neuroscience 36th Annual Meeting. Atlanta, U.S.A.
3. Wang Y (2006). Neuroanatomical substrate of feature detection in the bird isthmotectal system. The 2006 Neuroscience Press Book

4. Karten HJ, Wang Y (2004). Mechanisms of motion detection in the vertebrate brain: cellular and biophysical properties. The Third Asian Conference on Vision. Chongqing, China.
5. Wang Y, Major DE, Karten HJ (2003). Morphology and connections of nucleus isthmi pars magnocellularis in birds. Society for Neuroscience 33rd Annual Meeting. New Orleans, U.S.A.
6. Gu Y, Wang Y, Wang SR (2001). Visual responses of neurons in the nucleus of the basal optic root to stationary stimuli in pigeons. International Brain Research Organization: Neuroscience school. Hong Kong, P. R. China
7. Gu Y, Wang Y, Zhang T, Wang SR (2001). The receptive field organization and visual response properties of ectostriatal neurons in the pigeon forebrain. Fourth Biennial Meeting of Chinese Society for Neuroscience. Hong Kong, P. R. China
8. Wang Y, Gu Y, Wang SR (2000). Feature detection of accessory optic neurons and their excitatory and inhibitory actions on rotundal neurons in homing pigeons. The Third East Asian Biophysics Symposium. Kyongju, Korea