

# Curriculum Vitae

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## Education and Training:

1. 1989-1994 M. D. Shanxi Medical University, Shanxi, China
2. 1995-2000 Ph. D. Shanghai Institute of Physiology, Chinese Academy of Science, China
3. 2002-2005 PostDoc. Department of Ophthalmology and Visual Science, Yale University
4. 2005- PostDoc. Department of Neurobiology, Yale University

## Honors and Awards:

1. 2001 Young Investigators Award, International Union of Physiological Science
2. 2004 James Hudson Brown-Alexander B. Coxe Fellowship, Yale University
3. 2004 FASEB Summer Research Conference Travel Award, Federation of American Societies for Experimental Biology

## Peer-reviewed Publications:

1. **Xu H. P.**, Yang X. L. (2000) GABA enhances short-wavelength sensitive cone input and reduces red cone input to carp L-type horizontal cells. *Brain Research Bulletin* 51: 493-497.
2. **Xu H. P.**, Luo D. G., Yang X. L. (2001) Signals from cone photoreceptors to L-type horizontal cells are differentially modulated by low calcium in carp retina. *European Journal of Neuroscience*. 13: 1411-1419.
3. **Xu H. P.**, Yang X. L. (2001) Synaptic transmission in retina bipolar cells. *Progress in Physiological Science* 32: 240-243.
4. **Xu H. P.**, Zhao J. W., Yang X. L. (2002) Expression of voltage-dependent calcium channel subunits in the rat retina. *Neuroscience Letters* 239: 297-300.
5. **Xu H. P.**, Yang X. L. (2002) Different effects of low calcium on signal transmission from rods and cones to bipolar cells in carp retina. *Brain Research* 957: 136-143.
6. **Xu H. P.**, Zhao J. W., Yang X. L. (2003) Cholinergic and dopaminergic amacrine cells differentially express calcium channel subunits in the rat retina. *Neuroscience* 118: 763-768.
7. **Xu H. P.** and Tian N. (2004) Pathway-specific maturation, visual deprivation, and development of retinal pathway. *The Neuroscientist* 10: 337-346.
8. **Xu H. P.** and Tian N. (2007) Retinal ganglion cell dendrites undergo a visual activity-dependent redistribution after eye-opening. *Journal of Comparative Neurology*. 503: 244-259.
9. **Xu H. P.** and Tian N. (2008) Glycine receptor-mediate synaptic transmission regulates the maturation of ganglion cell synaptic connectivity. *Journal of Comparative Neurology*. In Press
10. **Xu H. P.**, Chen H., Ding Q., Diao L., Gan L. and Tian N. Immune molecules mediate neuron synaptic formation through regulating glutamatergic synaptic transmission. Submitted

## Abstracts:

1. **Xu H. P.**, Yang X. L. (1999) Differential modulation by GABA of signals from red- and green-sensitive cones in the carp retina. Proceeding of the Third Congress of Chinese Society for Neuroscience. Beijing.
2. **Xu H. P.**, Yang X. L. (2001) Signals from rods and cones to the second-order neurons are differentially modulated by low calcium in carp retina. Progress of the International Neuroscience Symposium for the 10<sup>th</sup> Anniversary of the Hongkong University of Science and Technology and the Forth Biennial Meeting of the Chinese Society for Neuroscience, Hongkong.
3. **Xu H. P.**, Yang X. L. (2001) Low calcium differentially modulated signal transmission from rods and cones to retinal bipolar cells. 34<sup>th</sup> International Congress of Physiology Science. Christchurch, New Zealand.
4. **Xu H. P.** and Tian N. (2004) Glycine receptor mediated activity is required for the maturation of OFF pathway in mouse retina. ARVO Meeting, Fort Lauderdale, FL
5. **Xu H. P.** and Tian N. (2004) CD3 $\zeta$ -containing receptor mediated MHC class I signaling system is required for retinal ganglion cell dendritic stratification. FASEB Summer Research Conferences. Saxton River, Vermont.
6. **Xu H. P.** and Tian N. (2005) Light deprivation retarded the maturation of retinal ganglion cell dendritic stratification. ARVO Meeting, Fort Lauderdale, FL
7. Chen H., **Xu H. P.** and Tian N. (2007) The maturation changes of dendritic and receptive fields of mouse retinal ganglion cells. ARVO Meeting, Fort Lauderdale, FL
8. **Xu H. P.**, Mineur Y. S., Chen H., Picciotto M. R., Tian N., Zenisek D. and Crair M. C. (2008) Conditional expression of  $\beta$ 2-containing nicotinic acetylcholine receptor in retina rescues retinocollicular map refinement. ARVO Meeting, Fort Lauderdale, FL