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RESIDENCE

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EDUCATION

Ph.D.	1996	**Michigan State University** East Lansing, Michigan Major in Neuroscience-Psychology
M.A.	1991	**Michigan State University** East Lansing, Michigan Major in Psychology
B.S.	1985	**National Chengchi University** Taipei, Taiwan Major in Psychology

RESEARCH AND PROFESSIONAL EXPERIENCE

2004 - Present **Michigan State University**, Department of Psychology
Assistant Professor (Fixed Term), Dr. J. Wade's Laboratory
Focus: Developmental changes of sexually dimorphic gene and protein expression in the song control system of zebra finches; effects of steroids on gene expression and neurogenesis during development.

2001 - 2004 **Michigan State University**, Neuroscience Program
Research Assistant Professor, Dr. C.L. Sisk's Laboratory
Focus: Effects of estrogen on gene expresion in the brain asociated with Alzheimer's Disease.

1999 - 2001 **Michigan State University**, Department of Microbiology and Molecular Genetics
Research Associate, Dr. S.E. Conrad's Laboratory
Focus: Molecular and cellular mechanisms of estrogen on breast cancer cell line; microarray studies of gene expression

in postmenopausal model of female mice.

1999 **First Symposium on Neuroplasticity,** Invited Guest Speaker, Taipei, Taiwan
Chinese Journal of Physiology, Manuscripts Reviewer

1996 - 1999 **Academia Sinica**, Institute of Biomedical Sciences, Taipei, Taiwan
Postdoctoral Research Fellow, Dr. E.H.Y. Lee Laboratory
Focus: Differential gene expression between induction and maintance stages of long-tern potentiation (in *vivo* electrophysiological recording).

1986 - 1994 **Michigan State University**, Department of Psychology
Research Assistant, Dr. C.L. Sisk Laboratory
Focus: Development of brain and behavior at puberty

1985 - 1986 **Academia Sinica**, Institute of Biomedical Sciences, Taipei, Taiwan
Research Assistant, Dr. E.H.Y. Lee Laboratory
Focus: Psychopharmacology

TEACHING EXPERIENCE

1987-1989 Teaching Assistant, Department of Psychology, Michigan State University, East Lansing, Michigan, U.S.A.

1992-1993 Teaching Assistant, Department of Psychology, Michigan State University, East Lansing, Michigan, U.S.A.

1998 Guest Lecture, Institute of Physiology, National Cheng Kung University, Tainan, Taiwan.

PROFESSIONAL MEMBERSHIP

Member of Society for Neuroscience in USA since 1987

Member of Society of Chinese Physiology since 1996 ~ 1999

SKILLS AND TECHNIQUES

Microarray gene expression
in situ hybridization
RNase Protection Assay
Northern Blot
Western Blot
Immunhistocytochemistry
Radioimmunoassay
Gene cloning and sequencing analysis
Real time quantitative PCR
Electrophysiological recording - *in vivo* Long-term potentiation

Microdialysis
Computer imaging analyses (NIH ImageJ Analysis System and StereoInvestigator)
in vivo siRNA study

PUBLICATIONS

Referred Papers

1. Lee E.H.Y., Wang F.B., **Tang Y.P.** and Geyer M.A. Gabaergic interneurons in the dorsal raphe mediate the effects of apomorphine on serotonergic system. Brain Research Bulletin 18:345-353, 1987.
2. Lee E.H.Y., Tsai M.J., **Tang Y.P.** and Chia C.Y. Differential biochemical mechanisms mediate locomotor stimulation effects by caffeine and nicotine in rats. Pharmacology, Biochemistry and Behavior 26:427-430, 1987.
3. Lee E.H.Y., **Tang Y.P.** and Chia C.Y. Stress and corticotropin-releasing factor potentiate center region activity of mice in an open field. Psychopharmacology 93:320-323, 1987.
4. **Tang Y.P.** and Sisk C.L. Differential effects of testosterone, 5α-dihydrostestosterone, and 17β-oestradiol on plasma LH levels in castrated ferrets. Journal of Endocrinology 117:461-466, 1988.
5. **Tang Y.P.** and Sisk C.L. Testosterone in MPOA elicits behavioral but not neuroendocrine responses in ferrets. Brain Research Bulletin 26:373-378, 1991.
6. **Tang Y.P.** and Sisk C.L. LHRH in the ferret: Pubertal decrease in the number of immunopositive arcuate neurons. Peptides 13:241-247, 1992.
7. Sisk C.L., Berglund L.A., **Tang Y.P.** and Venier, J.M. Photoperiod history modulates pubertal shifts in behavioral sensitivity to testosterone. Journal of Biological Rhythms 7:329-339, 1992.
8. **Tang Y.P.**, Kashon M.L. and Sisk C.L. Brain region-specific regulation of luteinizing hormone-releasing hormone messenger ribonucleic acid in the male ferret: Interactions between pubertal maturation and testosterone. Endocrinology 138:4740-4747, 1997.
9. **Tang Y.P**., Ma Y.L., Chen K.Y., Chao C.C. and Lee, E.H.Y. Enhanced Glia cell line-derived neurotrophic factor mRNA expression upon (-)-deprenyl and melatonintreatments. J. Neuroscience Research 53:593-604, 1998.
10. Huang A.-M., Wang H.L., **Tang Y.P.** and Lee, E.H.Y. Expression of integrin-associated protein gene associated with memory formation in rats. Journal of Neuroscience 18:4305-4313, 1998.
11. **Tang Y.P.**, Ma Y.L., Chen S.K. and Lee E.H.Y. mRNA differential display identification of thyroid hormone-responsive protein (THRP) gene in association with early phase of long-term potentiation. Hippocampus 11:637-646, 2001.
12. **Tang Y.P.**, Haslam S.Z., Conrad S.E., Sisk C.L. Estrogen increases brain expression of the mRNA encoding transthyretin, a β-amyloid binding protein. J. Alzheimer's Disease 6:413-420, 2004.
13. Wade J., **Tang Y.P.**, Peabody C. and Tempelman R.J. Enhanced gene expression in the forebrain of hatchling and juvenile male zebra finches. Journal of Neurobiology 64(2):224-38, 2005.
14. **Tang Y.P.** and Wade J. Sexually dimorphic expression of the genes encoding ribosomal proteins L17 and L37 in the song control nuclei of juvenile zebra finches. Brain Research 1126(1): 102-8, 2006.
15. **Tang Y.P.**, Peabody C., Tomaszycki M.L. and Wade J. Sexually dimorphic SCAMP1 expression in the forebrain motor pathway for song production of juvenile zebra finches. Developmental Neurobiology 67(4):474-82, 2007.

16. **Tang Y.P.** and Wade J. Effects of estradiol on incorporation of new cells in the developing zebra finch song system: potential relationship to expression of ribosomal proteins L17 and L37. Developmental Neurobiology 69(7):462-75, 2009.
17. Wu D., **Tang Y.P.** and Wade J. Co-localization of sorting nexin 2 and androgen receptor in the song system of juvenile zebra finches. Brain Research 1343:104-11, 2010.
18. **Tang Y.P.** and Wade J. Sex- and age-related differences in ribosomal proteins L17 and L37, as well as androgen receptor protein, in the song control system of zebra finches. Neuroscience 171(4):1131-40, 2010.
19. **Tang Y.P.** and Wade J. Developmental changes in the sexually dimorphic expression of secretory carrier membrane protein 1 and its co-localisation with androgen receptor protein in the zebra finch song system. Journal of Neuroendocrinology 23(7):584-90, 2011.
20. **Tang Y.P.** and Wade J. 17β-estradiol regulates the sexually dimorphic expression of BDNF and TrkB proteins in the song system of juvenile zebra finches. PLoS One 7(8):e43687, 2012.
21. Wade J., Lampen J., Qi L. and **Tang Y.P.** Norepinephrine inhibition in juvenile male zebra finches modulate adult song quality. Brain Research Bulletin 90:132-6, 2013.
22. Wade J., Peabody C., **Tang Y.P.**, Qi L. and Burnett R. Estradiol modulates neurotransmitter concentrations in the developing zebra finch song system. Brain Res. 1517:87-92, 2013.
23. **Tang Y.P.** and Wade J. Developmental changes in BDNF protein in the song control nuclei of zebra finches. Neuroscience 250:578-587, 2013.
24. **Tang Y.P.** and Wade J. Tracheosyringeal nerve transection in juvenile male zebra finches decreases BDNF in HVC and RA and the projection between them. Neuroscience Letters 583:26-31, 2014.
25. **Tang Y.P.** and Wade J. Sex and Age Differences in Brain Derived Neurotrophic Factor and Vimentin in the Zebra Finch Song System: Relationships to Newly Generated Cells. Journal of Comparative Neurology, in press 2015.

Abstracts

1. **Tang Y.P.** and Sisk C.L. Effects of testosterone, dihydrotestosterone, and estrogen on luteinizing hormone secretion in castrated male ferrets. Society for Neuroscience Abstracts 13:1084, 1987.
2. **Tang Y.P.** and Sisk C.L. Distribution of luteinizing hormone releasing hormone (LHRH)-containing neurons within the brain of mustelid, the European ferret. Society for Neuroscience Abstracts 14:440, 1988.
3. **Tang Y.P.** and Sisk C.L. Centrally implanted testosterone activates sexual behavior in castrated male ferrets. Society for Neuroscience Abstracts 15:379, 1989.
4. **Tang Y.P.** and Sisk C.L. An increase in ?-endorphin in arcuate neurons is correlated with reproductive maturation in male ferrets. Society for Neuroscience Abstracts 16:395, 1990
5. **Tang Y.P.** and Sisk C.L. The number of LHRH containing neurons decreases selectively in the arcuate nucleus during puberty in male ferrets. Society for Neuroscience Abstracts 17: 428, 1991.
6. **Tang Y.P.** and Sisk C.L. Neurochemical lesions of the hypothalamic paraventricular nucleus accelerate pubertal gonadal growth in male ferrets. Society for Neuroscience Abstracts 18: 1222, 1992.
7. **Tang Y. P.** and Sisk C.L. Effects of N-Methyl-D-Aspartic Acid (NMDA) on luteinizing hormone-releasing hormone (LHRH)-immunopositive neurons in the arcuate nucleus of male ferrets. Society for Neuroscience Abstracts 19: 1396, 1993.

8. **Tang Y.P.** and Lee E.H.Y. Increase in Thyroid Hormone Responsive Protein (THRP) mRNA Expression in Rat Dentate Gyrus upon Long-Term Potentiation. First Symposium on Neuroplasticity. Abstracts 1: 8, 1999.
9. **Tang Y. P.**, Haslam S.Z., Conrad S.E. and Sisk C.L. Estradiol regulates expression of transthyretin precursor protein mRNA. The 8th International Conference on Alzheimer's Disease and Related Disorders. Neurobiology of Aging 23(1S) pp.S393, Abstract 1440, 2002.
10. **Tang Y.P.** and Wade J. Sexually dimorphic expression of ribosomal proteins L37 and L17 mRNA in song control nuclei of juvenile zebra finches. Society for Neuroscience Abstract, 2005.
11. **Tang Y.P.** and Wade J. Developmental changes of sexually dimorphic expression of ribosomal proteins L17 and L37 mRNA in song control nuclei of zebra finches. Society for Neuroscience Abstract, 2006.
12. **Tang Y.P.** and Wade J. Radial glia and genesis of cells in the song control system of zebra finches. Gordon Research Conferences. Glial Biology: Functional Interactions Among Glia & Neurons. March 1-6, 2015