
BIOGRAPHICAL SKETCH

NAME	POSITION TITLES
Yu Tian Wang	Professor and Fellow of the Academy of Science of the Royal Society of Canada Department of Medicine and Brain Research Center, University of British Columbia, Canada

EDUCATION/TRAINING

INSTITUTION AND LOCATION	DEGREE (if applicable)	MM/YY	FIELD OF STUDY
Shangdong University Medical School, Jinan, P.R. China	B.M.	12/82	Medicine
Shangdong University Medical School, Jinan, P.R. China	M.Sc.	12/85	Physiology
Memorial University of Newfoundland, Canada	Ph.D.	08/92	Neuroscience

Positions and Employment

2001-present	Professor and HSFBC&Y Chair in Stroke Research, Dept. Medicine and Brain Res. Center, University of British Columbia
2000-2001	Associate Professor and Senior Scientist, Dept. of Laboratory Medicine and Pathobiology, Hospital for Sick Children and University of Toronto
1994-2000	Assistant Professor and Scientist, Dept. of Laboratory Medicine and Pathobiology, Hospital for Sick Children and University of Toronto
1992-1994	Postdoctoral Research Fellow, Physiology, Univ. Toronto
1988-1992	Lecturer, Dept. of Physiology, Shandong University Medical School, P.R. China
1981-1982	Internship, Qilu Hospital, Shandong University, Jinan, P.R. China

Honors

2017	Innovation Award of the Canadian College of Neuropsychopharmacology
2006	Fellow of the Royal Society of Canada (the Academy of Sciences of Canada)
2001-2011	Howard Hughes Medical Institute International Scholar
2005	Killam Professor, UBC
2004	The J.A.F. Stevenson Lecturer of the Canadian Physiological Society
2002	UBC Distinguished University Scholar
2002-2007	Michael Smith Foundation for Health Research Senior Scholar
2001-2006	Canadian Institutes of Health Research Investigator

Selected Peer-reviewed Publications

1. **Wang YT** and MW Salter, Regulation of NMDA receptors by protein-tyrosine kinases and phosphatases, *Nature*, 369:233-235, 1994.
2. Wan Q, Xiong ZG, Man HY, Ackerley CA, Braunton J, Lu WY, Becker LE, MacDonald JF and **YT Wang**, Recruitment of functional GABA_A receptors to postsynaptic domains by insulin, *Nature* 388:686-690, 1997.
3. Wan Q, Man HY, Liu F, Niznik HB, Pang SF, Brown GM and **YT Wang**. Differential modulation of GABA_A function by Mel1a and Mel1b receptors, *Nature Neurosci.*, 2:401-403, 1999.
4. HY Man, J Lin, W Ju, G Ahmadian-Bahadorani, LE Becker, M Sheng and **YT Wang**, Regulation of AMPA receptor-mediated synaptic transmission by clathrin-dependent receptor internalization, *Neuron*, 25:649-662, 2000.
5. Liu F, Wan Q, Pristupa Z, **Wang YT*** and Niznik HB* (*equal corresponding authors) Direct protein-protein

- binding enables reciprocal dopamine D5 and GABA_A receptor cross talk, *Nature*, 403:274-280, 2000.
6. Lu WY, Man HY, Trimble W, MacDonald JF and **YT Wang**, Activation of synaptic NMDA receptors induces LTP through insertion of AMPA receptors at excitatory synapses in cultured hippocampal neurons, *Neuron*, 29:243-254, 2001.
 7. Man HY, QH Wang, WY Lu, G Ahmadian, S D'Souza, L Liu, W. Ju, LE Becker, MP Wymann, JF MacDonald, **YT Wang**, Activation of PI3-kinase is required for AMPA receptor insertion during LTP of mEPSCs in cultured hippocampal neurons, *Neuron*, 38:611-624, 2003.
 8. Nong Y, YQ Huang, W Ju, LV Kalia, G Ahmadian, **YT Wang***, MW Salter* (*equal corresponding authors), Glycine binding primes NMDA receptor internalization, *Nature*, 422:302-307, 2003.
 9. Wang QH, LD Liu, L Pei, W Ju, G. Ahmadian, J Lu, YS Wang, F Liu, **YT Wang**, Control of synaptic strength, a novel function of Akt, *Neuron*, 38:915-928, 2003.
 10. Ahmadian G, W Ju, LD Liu, A Dunah, M Wyszynski, M Sheng, **YT Wang**, Tyrosine phosphorylation of GluR2 is required for regulated AMPA receptor endocytosis and LTD, *EMBO J*, 23:1040-1050, 2004.
 11. Collingridge GL, JTR Isaac, **YT Wang**, Receptor trafficking and synaptic plasticity, *Nature Neuroscience Rev.*5:952-962, 2004.
 12. Liu L, TP Wong, MF Pozza, K Lingenhoehl, Y Wang, M Sheng, YP Auberson, **YT Wang**, Subtypes of NMDA receptors govern the direction of hippocampal synaptic plasticity, *Science*, 304:1021-1024, 2004.
 13. Brebner K, TP Wong, L Liu, Y Liu, P Campsall, S Gray, L Phelps, AG Phillips*, **YT Wang*** (*equal corresponding authors), Nucleus Accumbens Long-Term Depression and the Expression of Behavioral Sensitization, *Science*, 310:1340-1343, 2005.
 14. Liu Y, TP Wong, M Aarts, A Rooyackers, L Liu, T Lai, DC Wu, J Lu, M Tymianski, AM Craig, **YT Wang**, NMDA receptor subunits have differential roles in mediating excitotoxic neuronal death both in vitro and in vivo, *J Neurosci*, 27:2846-2857, 2007.
 15. Wong TP, JG Howland, JM Robillard, Y Ge, W Yu, AK Titterness, K Brebner, L Liu, J Weinberg, BR Christie, AG Phillips, **YT Wang**. Hippocampal long-term depression mediates acute stress-induced spatial memory retrieval impairment, *Proc Natl Acad Sci*, 104:11471-11476, 2007.
 16. Peineau S, C Taghibiglou, C Bradley, TP Wong, L Liu, J Lu, E Lo, DC Wu, E Saule, T Bouschet, P Matthews, P Isaac, Z Bortolotto, **YT Wang**, G Collingridge, LTP inhibits LTD in the hippocampus via regulation via GSK3 β , *Neuron*, 53: 703-717, 2007
 17. Taghibiglou C, HGS Martin, TW Lai, T Cho, S Prasad, L Kojic, J Lu, Y Liu, E Lo, S Zhang, YP Li, JZZ Wu, YH Wen, JH Imm, M Cynader and **YT Wang**, Role of NMDA receptor-dependent activation of SREBP1 in excitotoxic and ischemic neuronal injuries, *Nature Medicine*, 15:1399-1406, 2009.
 18. Martin H & **YT Wang**, Blocking Deadly Effects of the NMDA Receptor in Stroke, *Cell* 140: 174-176, 2010.
 19. Collingridge G, Peineau S, Howland JG and **YT Wang**, Long-Term Depression in the CNS, *Nature Rev. Neurosci.*, 11:459-473, 2010.
 20. Liu L, Wu DC and **YT Wang**, Allosteric potentiation of glycine receptor chloride channels by glutamate, *Nature Neurosci.*, 13:1225-1235, 2010.
 21. Lai T, and **YT Wang**, Fashioning drugs for stroke, *Nature Medicine*, 16:1376-1378, 2010.
 22. Ge Y, ZF Dong, R Bagot, J Howland, A Phillips, TP Wong, and **YT Wang**, Hippocampal long-term depression is required for the consolidation of spatial memory, *PNAS*, 107:16697-16702, 2010.
 23. Bartlett TE and **YT Wang**. Illuminating synapse-specific homeostatic plasticity, *Neuron*, 72(5):682-5, 2011.
 24. Dong Z, B Gong, H Li, Y Bai, X Wu, Y Huang, W He, T Li, and YT Wang, Mechanisms of hippocampal long-term depression are required for memory enhancement by novelty exploration, *J. Neurosci.*, 32:11980-11990, 2012.
 25. Xu, W, YC Tse, FA Dobie, M Baudry, AM Craig, TP Wong and **YT Wang**, Simultaneous monitoring of presynaptic transmitter release and postsynaptic receptor trafficking reveals an enhancement of presynaptic activity in metabotropic glutamate receptor-mediated long-term depression, *J. Neurosci*, 33:5867-5877, 2013.
 26. Zhang S, C Taghibiglou, K Girling, Z Dong, SZ Lin, W Lee, WC Shyu, and **YT Wang**, Critical role of increased PTEN nuclear translocation in excitotoxic/ischemic neuronal injuries, *J. Neurosci*, 33:7997, 2013.
 27. Fan X, Jin WY, Lu J, Wang J and **YT Wang**, Rapid and reversible knockdown of endogenous proteins by peptide-directed lysosomal degradation, *Nature Neurosci.*, 17:471-480, 2014.
 28. ZF Dong, HL Han, HJ Li, YR Bai, W Wang, M Tu, Y Peng, LM Zhou, WT He, XB Wu, T Tan, MJ Liu, XY Wu, WH Zhou, WY Jin, S Zhang, T Sacktor, TY Li, WH Song, **YT Wang**, Long-term potentiation decay and memory loss are mediated by AMPAR endocytosis, *J. Clin. Invest.*, 125:234-247, 2015.
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29. Connor SA, I Ammendrup-Johnsen, AW Chan, Y Kishimoto, C Murayama, N Kurihara, A Tada, Y Ge, H Lu, R Yan, JM LeDue, H Matsumoto, H Kiyonari, Y Kirino, F Matsuzaki, T Suzuki, TH Murphy, **YT Wang***, T Yamamoto* and AM Craig* (* equal corresponding authors). Altered Cortical Dynamics and Cognitive Function upon Haploinsufficiency of the Autism-Linked Excitatory Synaptic Suppressor MDGA2. *Neuron*. 91:1052-1068, 2016.
