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Distinguished Professor  
Rutgers University  
Department of Genetics & Center of Alcohol Studies  
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## **EDUCATION**

- 4/1987 Ph.D. **Biology**  
California Institute of Technology  
Pasadena, California
- 6/1981 M.S. **Molecular Genetics**  
Institute of Genetics, National Academy of Sciences  
Beijing, China
- 8/1979 B.S. **Industrial Fermentation**  
Jiangnan University  
Wuxi, China

## **ACADEMIC APPOINTMENTS**

- 2005 - present **Distinguished Professor**  
Department of Genetics & Center of Alcohol Studies  
Rutgers University  
Piscataway, New Jersey
- 1997 - 2005 **Professor**  
Department of Cell Biology, Neurobiology and Anatomy  
University of Cincinnati College of Medicine  
Cincinnati, Ohio
- 1997 - 2005 **Professor (Adjunct)**  
Department of Psychiatry  
University of Cincinnati College of Medicine  
Cincinnati, Ohio
- 1995 - 1997 **Professor**

Department of Medical and Molecular Genetics  
Indiana University School of Medicine  
Indianapolis, Indiana

1993 - 1995 **Associate Professor**  
Department of Medical and Molecular Genetics  
Indiana University School of Medicine  
Indianapolis, Indiana

1988 - 1993 **Assistant Professor**  
Department of Medical and Molecular Genetics  
Indiana University School of Medicine  
Indianapolis, Indiana

1987 - 1988 **Del Webb Postdoctoral Research Fellow**  
Division of Biology  
California Institute of Technology  
Pasadena, California

## **PROFESSIONAL EXPERIENCE**

### **National**

2014 - 2016 **Chair, ZDA1 JXR-G Grant Review Committee**  
National Institute on Drug Abuse  
National Institutes of Health

2007 **CEBRA grant program reviewer**  
National Institute on Drug Abuse  
National Institutes of Health

2006 - 2014 **Center Grant Review Committee**  
National Institute on Drug Abuse  
National Institutes of Health

2006 **Program Project Grant Review Committee**  
National Institute on Drug Abuse  
National Institutes of Health

2006 **Special Grant Review Committee for Epigenetic Studies**  
National Institute on Drug Abuse  
National Institutes of Health

- 2005      **General Clinical Research Center Site Visit Subcommittee**  
National Center for Research Resources  
National Institutes of Health
- 2004      **Biomedical Research Review Subcommittee**  
National Institute on Alcohol Abuse and Alcoholism  
National Institutes of Health
- 2004      **Biophysics of Synapses, Channels, and Transporters Study Section**  
Center for Scientific Review  
National Institutes of Health
- 2002 - 2003      **Special Molecular Imaging Study Section**  
Center for Scientific Review  
National Institutes of Health
- 2002      **CEBRA grant program reviewer**  
National Institute on Drug Abuse  
National Institutes of Health
- 1996 - 1999      **National Advisory Council on Drug Abuse**  
National Institutes of Health
- 1996 - 1999      **Board of Scientific Counselors**  
Representative of NIDA Council  
Intramural Research Program  
National Institute on Drug Abuse  
National Institutes of Health
- 1996 - 1997      **Blue Ribbon Panel for Review of Intramural Research at NIDA**  
National Institutes of Health
- 1994 - 1995      **Extramural Science Advisory Board**  
National Institute on Drug Abuse  
National Institutes of Health
- 1994      **Molecular, Cellular & Chemical Neurobiology Study Section**  
Center for Scientific Review  
National Institutes of Health

**University**

- 2018 - 2020 Core Requirements Committee  
School of Arts & Sciences  
Rutgers University
- 2018 – 2019 Maureen Barr Promotion to Distinguished Professor Committee  
School of Arts & Sciences  
Rutgers University
- 2018 – 2019 Marsha Bates Promotion to Distinguished Professor Committee  
Department of Kinesiology and Health  
Rutgers University
- 2016 - 2017 Faculty Search Committee  
Department of Genetics  
Rutgers University
- 2016 Departmental Review Committee  
Center of Alcohol Studies  
Rutgers University
- 2016 Amrik Sahota Reappointment Committee  
Department of Genetics  
Rutgers University
- 2016 Bryce Nickels Promotion Reading Committee  
Department of Genetics  
Rutgers University
- 2015 Chair, Marsha Bates Promotion to Distinguished Professor Committee  
Rutgers University
- 2014 Linda Brzustowicz Promotion to Distinguished Professor Committee  
Rutgers University
- 2011 - present New Brunswick Faculty Council  
Rutgers University
- 2011 - present Curriculum, Teaching, and Honors Committee  
New Brunswick Faculty Council  
Rutgers University
- 2011 - present Undergraduate Study and Advising Committee

- Department of Genetics  
Rutgers University
- 2011 - 2016 Faculty Advisory Board  
Office of Technology Commercialization  
Rutgers University
- 2011 - 2012 Bryce Nickels Mentoring Committee  
Department of Genetics  
Rutgers University
- 2010 - present Academic Affairs Committee  
Center of Alcohol Studies  
Rutgers University
- 2010 Helene White Promotion to Distinguished Professor Committee  
Rutgers University
- 2010 Derek Gordon Tenure Committee  
Department of Genetics  
Rutgers University
- 2010 Eun Young Mun Promotion and Tenure Committee  
Center of Alcohol Studies  
Rutgers University
- 2009 - 2012 Teaching Effectiveness Committee  
Department of Genetics  
Rutgers University
- 2009 - 2016 Chair, Biomedical Research Advisory Committee  
Busch Biomedical Grant Program  
Rutgers University
- 2009 - present Committee for Appointments and Promotions to Distinguished Professor  
SAS  
Rutgers University
- 2009 - 2016 Faculty Compensation Peer Evaluation Committee (FCP)  
Center of Alcohol Studies  
Rutgers University
- 2009 Elizabeth Epstein Promotion Committee

- Center of Alcohol Studies  
Rutgers University
- 2008 - 2009 Derek Gordon Mentoring Committee  
Department of Genetics  
Rutgers University
- 2007 - 2014 Molecular Biosciences Graduate Recruitment Committee  
Rutgers University and UMDNJ
- 2007 - 2012 Institutional Animal Care and Use Committee (IACUC)  
Rutgers University
- 2007 - 2011 Curriculum and Assessment Committee  
Department of Genetics  
Rutgers University
- 2007 Chair  
Terry McGuire Promotion Reading Committee  
Department of Genetics  
Rutgers University
- 2006 - 2008 Advisory Committee for Appointments and Promotions to Professor II  
School of Arts and Sciences  
Rutgers University
- 2006 Fundraising Committee  
Department of Genetics  
Rutgers University
- 2005 - 2007 Faculty Search Committee  
Department of Genetics  
Rutgers University
- 2002 - 2005 Chair  
Finance Committee  
Department of Cell Biology, Neurobiology and Anatomy  
University of Cincinnati College of Medicine
- 2002 - 2005 Institutional Biosafety Committee  
University of Cincinnati

- 2001 - 2005    Chair  
Faculty-Staff Relations Committee  
Department of Cell Biology, Neurobiology and Anatomy  
University of Cincinnati College of Medicine
- 2001 - 2003    Chair  
Space Allocation Committee  
Department of Cell Biology, Neurobiology and Anatomy  
University of Cincinnati College of Medicine
- 2001 - 2002    Student Stipend Committee  
Neuroscience Graduate Program  
University of Cincinnati
- 2000 - 2001    Centers of Excellence Task Force on Neurobehavior Science  
University of Cincinnati
- 2000 - 2001    Search Committee for X-ray crystallography faculty member  
Department of Pharmacology and Cell Biophysics  
University of Cincinnati College of Medicine
- 1999 - 2004    Graduate Recruiting Activity Planning Committee  
Neuroscience Graduate Program  
University of Cincinnati
- 1998 - 2005    Executive Committee  
Department of Cell Biology, Neurobiology and Anatomy  
University of Cincinnati College of Medicine
- 1998 - 2005    Reappointment, Promotion and Tenure Committee  
Department of Cell Biology, Neurobiology and Anatomy  
University of Cincinnati College of Medicine
- 1998 - 2002    Scottish Rite Fellowship Committee  
University of Cincinnati College of Medicine
- 1998 - 1999    University Research Council  
University of Cincinnati
- 1998            Subcommittee on Cell III course evaluation for neuroscience curriculum  
Neuroscience Graduate Program  
University of Cincinnati

- 1997 - 1998 Neuroscience Faculty Search Committee  
Department of Cell Biology, Neurobiology and Anatomy  
University of Cincinnati College of Medicine
- 1996 - 1997 Biomedical Research Committee  
Indiana University School of Medicine
- 1995 - 1997 Committee for Student Research Program in Academic Medicine  
Indiana University School of Medicine
- 1995 - 1996 Search Committee for the Chairperson of the Department of  
Medical and Molecular Genetics  
Indiana University School of Medicine
- 1995 - 1996 Faculty Search Committee  
Department of Physiology and Biophysics  
Indiana University School of Medicine
- 1994 - 1995 Review Committee for the Department of Medical and Molecular  
Genetics  
Indiana University School of Medicine
- 1994 - 1995 Chair  
Evaluation Committee for Student Seminars  
Department of Medical and Molecular Genetics  
Indiana University School of Medicine
- 1994 - 1995 Seminar Coordinator  
Medical and Molecular Genetics Seminar Series  
Department of Medical and Molecular Genetics  
Indiana University School of Medicine
- 1994 - 1997 Chair  
Graduate Admissions Committee  
Department of Medical and Molecular Genetics  
Indiana University School of Medicine
- 1993 - 1996 Steering Committee  
Department of Physiology and Biophysics  
Indiana University School of Medicine



- 1994 - 1995    Selkurt Lectureship Committee  
Department of Physiology and Biophysics  
Indiana University School of Medicine
- 1993 - 1994    Faculty Search Committee  
Department of Physiology and Biophysics  
Indiana University School of Medicine
- 1993 - 1994    Graduate Qualifying Examinations Committee  
Department of Medical and Molecular Genetics  
Indiana University School of Medicine
- 1992 - 1993    Seminar Coordinator  
Molecular and Cellular Biophysics Seminar Series  
Department of Physiology and Biophysics  
Indiana University School of Medicine
- 1992 - 1993    Faculty Council  
Department of Physiology and Biophysics  
Indiana University School of Medicine
- 1992           Faculty Search Committee  
Department of Physiology and Biophysics  
Indiana University School of Medicine
- 1992           Faculty Search Committee  
Department of Medical and Molecular Genetics  
Indiana University School of Medicine
- 1991 - 1993    University Faculty Council  
Indiana University - Purdue University Indianapolis
- 1991 - 1993    Faculty Search Committee  
Institute of Psychiatric Research  
Indiana University School of Medicine
- 1991           Faculty Search Committee  
Department of Biochemistry and Molecular Biology  
Indiana University School of Medicine
- 1990 - 1997    Chair

Student-Faculty Relations Committee  
Department of Medical and Molecular Genetics  
Indiana University School of Medicine

1990      Judging Panel  
            Sigma Xi Graduate Student Research Competition  
            Indiana University School of Medicine

1989 - 1991    Graduate Qualifying Examinations Committee  
            Department of Medical and Molecular Genetics  
            Indiana University School of Medicine

1989 - 1994    Graduate Admissions Committee  
            Department of Medical and Molecular Genetics  
            Indiana University School of Medicine

1989      Student Benefits Committee  
            Department of Medical and Molecular Genetics  
            Indiana University School of Medicine

### **REVIEWER OF SCIENTIFIC WORK FOR JOURNALS**

Acta Physiologica Sinica  
Addiction Biology  
Alcoholism: Clinical and Experimental Research  
American Journal of Human Genetics  
BioTechniques  
Brain Research  
Brain Research Bulletin  
Experimental Neurology  
European Journal of Pain  
European Psychiatry  
FEBS Letters  
Gene  
Genomics  
Human Heredity  
Human Molecular Genetics  
Journal of Neurochemistry  
Journal of Neuroimmunology  
Journal of Neurophysiology

Journal of Neuroscience  
Journal of Pharmacology and Experimental Therapeutics  
Journal of Pharmacy and Pharmacology  
Journal of Receptor and Signal Transduction Research  
Journal of Receptor Research  
Life Sciences  
Molecular Pain  
Molecular Pharmacology  
Molecular Brain Research  
Mutation Research  
Neuropharmacology  
Neuropsychopharmacology  
Neuroscience Bulletin  
Neuroscience Letters  
Pain  
Pharmacogenetics  
Proceedings of the National Academy of Sciences  
Psychopharmacology

## **REVIEWER OF GRANT APPLICATIONS FOR FUNDING AGENCIES**

Alzheimer's Association (USA)  
American Heart Association (USA)  
Cancer Research Council (United Kingdom)  
Foundation for Polish Science (Poland)  
Medical Research Council (United Kingdom)  
Ministry of University and of Scientific and Technological Research (Italy)  
National Institutes of Health (USA)  
National Medical Research Council (Singapore)  
National Science Foundation (USA)  
National Science Foundation of China (China)  
Veteran Administration (USA)  
US Army Medical Research and Materiel Command (USA)

## **PUBLICATIONS**

### **Journal Articles**

- Lax NC, Chen R, Leep SR, Uhrich KE, Yu L, Kolber BJ (2017) PolyMorphine provides extended analgesic-like effects in mice with spared nerve injury. *Mol. Pain* 13:1-12.
- Zou H, Liu M, Luan Y, Xie Q, Cheng Z, Zhao G, Jin M, Guo N, Jin GJ, Yu L (2017) Pattern of novel object exploration in cynomolgus monkey *Macaca fascicularis*. *J. Med. Primatol.* 46:19-24.
- Tomie A, Samuel AG, Merchant A, Yu L (2016) The effects of proximal and distal social stimulation on ethanol intake in male and female CD-1 mice. *J. Drug Alcohol Res.* 5, doi:10.4303/jdar/235949.
- Tomie A, Samuel AG, Sprung DM, Malul Y, Yu L (2015) Effects of number of cagemates on home-cage ethanol drinking during proximal cagemate drinking (PCD) procedures in male and female CD-1 mice. *Prog Neuropsychopharmacol Biol Psychiatry* 57:1-10.
- Zou H, Luan Y, Liu M, Agre LA, Buyske S, Xie Q, Cheng Z, Zhao G, Jin M, Guo N, Jin GJ, Yu L (2015) Differential behavior patterns in cynomolgus monkey *Macaca fascicularis* in home cage in response to human gaze. *J. Med. Primatol.* 44:1-11.
- Guo N, Gu X, Xie Y, Zhao J, Xie Q, Zhao G, Jin M, Zhao Z, Zou H, Zhang Y, Jin GJ, Yu L (2014) Sciatic nerve neuropathy in cynomolgus monkey *Macaca fascicularis*: Altered leg usage and peripheral nerve firing. *J. Neurol. Neurophysiol.* 5(6):247.
- Wang K, Song H, Jin M, Xiao H, Zhao G, Zou H, Yu L (2014) Chronic alcohol consumption from adolescence-to-adulthood in mice — Hypothalamic gene expression changes in insulin signaling pathway. *Alcohol* 48:571-578.
- Zou H, Wang K, Gao Y, Song H, Xie Q, Jin M, Zhao G, Xiao H, Yu L (2014) Chronic alcohol consumption from adolescence-to-adulthood in mice — Hypothalamic gene expression changes in the dilated cardiomyopathy signaling pathway. *BMC Neuroscience* 15:61.
- Tomie A, Defuria AA, Jones HA, Edwards SD, Yu L (2014) Effects of cagemate gender and the cagemate's access to ethanol on ethanol and water intake of the proximal male or the proximal female CD-1 mouse. *Alcohol* 48:73-82.
- Londono D, Chen KM, Musolf A, Wang R, Shen T, Brandon J, Herring JA, Wise CA, Zou H, Jin M, Yu L, Finch SJ, Matise TC, Gordon D (2013) A novel method for analyzing genetic association with longitudinal phenotypes. *Statistical Applications in Genetics and Molecular Biology* 12:241-261.

- Tomie A, Azogu I, Yu L (2013) Effects of naltrexone on post-abstinence alcohol drinking in C57BL/6NCRL and DBA/2J mice. *Prog Neuropsychopharmacol Biol Psychiatry* 44:240-247.
- Guo N, Gu X, Zhao J, Zhao G, Jin M, Zou H, Zhang Y, Zhao Z, Jin GJ, Yu L (2012) Maxillary nerve compression in cynomolgus monkey *Macaca fascicularis*: Altered somatic sensation and peripheral nerve firing. *BMC Neuroscience* 13:150.
- Rosario-Meléndez R, Harris CL, Delgado-Rivera R, Yu L, Uhrich KE (2012) PolyMorphine: An innovative biodegradable polymer drug for extended pain relief. *J. Controlled Release* 162:538-544.
- Tomie A, Lincks M, Nadarajah SD, Pohorecky LA, Yu L (2012) Pairings of lever and food induce Pavlovian conditioned approach of sign-tracking and goal-tracking in C57BL/6 mice. *Behav. Brain Res.* 226:571-578.
- Smelson DA, Yu L, Buyske S, Gonzalez G, Tischfield JA, Deutsch CK, Ziedonis D (2012) Genetic association of GABA-A receptor alpha-2 and mu opioid receptor with cocaine cue-reactivity: Evidence for inhibitory synaptic neurotransmission involvement in cocaine dependence. *Am. J. Addict.* 21:411-415.
- Pitchers KK, Balfour ME, Lehman MN, Richtand NM, Yu L, Coolen LM (2010) Neuroplasticity in the mesolimbic system induced by natural reward and subsequent reward abstinence. *Biol. Psych.* 67:872-879.
- Zhang M, Ji B, Zou H, Shi J, Zhang Z, Li X, Zhu H, Feng G, Jin M, Yu L, He L, Wan C (2010) Vitamin A depletion alters sensitivity of motor behavior to MK-801 in C57BL/6J mice. *Behav. Brain Funct.* 6:7-16.
- Peng G, Han M, Du Y, Lin A, Yu L, Zhang Y, Jing N (2009) SIP30 is regulated by ERK in peripheral nerve injury-induced neuropathic pain. *J. Biol. Chem.* 284:30138-30147.
- Zhang YQ, Guo N, Peng G, Han M, Raincrow J, Chiu C, Coolen LM, Wenthold RJ, Zhao ZQ, Jing N, Yu L (2009) Role of SIP30 in the development and maintenance of peripheral nerve injury-induced neuropathic pain. *Pain* 146:130-140.
- Zou H, Xie Q, Zhang M, Zhang C, Zhao G, Jin M, Yu L (2009) Chronic alcohol consumption from adolescence to adulthood in mice — effect on growth and social behavior. *Drug Alcohol Depend.* 104:119-125.
- Zou H, Zhang C, Xie Q, Zhang M, Shi J, Jin M, Yu L (2008) Low dose MK-801 reduces social investigation in mice. *Pharmacol. Biochem. Behav.* 90:753-757.

- Qi C, Zou H, Zhang R, Zhao G, Jin M, Yu L (2008) Age-related differential sensitivity to MK-801-induced locomotion and stereotypy in C57BL/6 mice. *Eur. J. Pharmacol.* 580:161-168.
- Yuan Y, Gao X, Guo N, Zhang H, Xie Z, Jin M, Li B, Yu L, Jing N (2007) rSac3, a novel Sac domain phosphoinositide phosphatase, promotes neurite outgrowth in nerve growth factor stimulated PC12 cells. *Cell Res.* 17:919-932.
- Yates JW, Meij TAJ, Sullivan JR, Richtand NM, Yu L (2007) Bimodal effect of amphetamine on motor behaviors in C57BL/6 mice. *Neurosci. Lett.* 427: 66-70.
- Qi C, Zou H, Zhang CH, Xie Q, Jin M, Yu L (2006) Effect of GNTI, a kappa opioid receptor antagonist, on MK-801-induced hyperlocomotion and stereotypy in mice. *Acta Pharmacologica Sinica* 27:1401-1408.
- Hou QL, Gao X, Lu Q, Zhang XH, Tu YY, Jin ML, Zhao G, Yu L, Jing NH, Li BM (2006) SNAP-25 in hippocampal CA3 region is required for long-term memory formation. *Biochem. Biophys. Res. Commun.* 347:955-962.
- Tang Y, Zou H, Strong JA, Cui Y, Xie Q, Zhao G, Jin M, Yu L (2006) Paradoxical effects of very low dose MK-801. *Eur. J. Pharmacol.* 537:77-84.
- Ulrich-Lai YM, Xie W, Meij JTA, Dolgas CM, Yu L, Herman JP (2006) Limbic and HPA axis function in an animal model of chronic neuropathic pain. *Physiology and Behavior* 88:67-76.
- Strong JA, Dalvi A, Revilla FJ, Sahay A, Samaha FJ, Welge JA, Gong J, Gartner M, Yue X, Yu L (2006) Genotype and smoking history affect risk of levodopa-induced dyskinesias in Parkinson's disease. *Movement Disorders* 21:654-659.
- Balfour ME, Brown JL, Yu L, Coolen LM (2006) Potential contributions of efferents from medial prefrontal cortex to neural activation following sexual behavior in the male rat. *Neuroscience* 137:1259-1276.
- Wang XM, Gao X, Zhang XH, Tu YY, Jin ML, Zhao G, Yu L, Jing NH, Li BM (2006) The negative cell cycle regulator, Tob (transducer of ErbB-2), is involved in motor skill learning. *Biochem. Biophys. Res. Commun.* 340:1023-1027.
- Wang X, Zhang Y, Kong L, Xie Z, Lin Z, Guo N, Strong JA, Meij JTA, Zhao Z, Jing N, Yu L (2005) RSEP1 is a novel gene with functional involvement in neuropathic pain behavior. *Eur. J. Neurosci.* 22:1090-1096.

- Zhang XH, Zhang H, Tu YY, Gao X, Zhou C, Jin M, Zhao G, Jing NH, Li BM, Yu L (2005) Identification of a novel protein for memory regulation in the hippocampus. *Biochem. Biophys. Res. Commun.* 334:418-424.
- Xie W, Strong JA, Meij JTA, Zhang JM, Yu L (2005) Neuropathic pain: Early spontaneous afferent activity is the trigger. *Pain* 116:243-56.
- Jin M, Wang X, Tu YY, Zhang X, Gao X, Guo N, Xie Z, Zhao G, Jing NH, Li BM, Yu L (2005) The negative cell cycle regulator, Tob (Transducer of ErbB-2), is a multifunctional protein involved in hippocampus-dependent learning and memory. *Neuroscience* 131:647-659.
- Wu J, Zou H, Strong JA, Yu J, Zhou X, Xie Q, Zhao G, Jin M, Yu L (2005) Bimodal effects of MK-801 on locomotion and stereotypy in C57BL/6 mice. *Psychopharmacol.* 177:256-263.
- Moalem G, Xu K, Yu L (2004) T lymphocytes play a role in neuropathic pain following peripheral nerve injury in rats. *Neuroscience* 129:767-777.
- You H, Qi X, Yu L (2004) Direct AFM observation of saposin C-induced membrane domains in lipid bilayers: from simple to complex lipid mixtures. *Chem. Physics Lipids* 132:15-22.
- Hou Q, Gao X, Zhang X, Kong L, Wang X, Bian W, Tu YY, Jin M, Zhao G, Li BM, Jing NH, Yu L (2004) SNAP-25 in hippocampal CA1 region is involved in memory consolidation. *Eur. J. Neurosci.* 20:1593-1603.
- Meij JTA, Haselton CL, Hillman KL, Muralikrishnan D, Ebadi M, Yu L (2004) Differential mechanisms of nitric oxide- and peroxy-nitrite-induced cell death. *Mol. Pharmacol.* 66:1043-1053.
- Coolen LM, Fitzgerald ME, Yu L, Lehman MN (2004) Activation of mu opioid receptors in the medial preoptic area following copulation in male rats. *Neuroscience* 124: 11-21.
- Balfour ME, Yu L, Coolen LM (2004) Sexual behavior and sex-associated environmental cues activate the mesolimbic system in male rats. *Neuropsychopharmacol.* 29: 718-730.
- Zheng W, Xie W, Zhang J, Strong JA, Wang L, Yu L, Xu M, Lu L (2003) Function of gamma-aminobutyric acid receptor/channel rho 1 subunits in spinal cord. *J. Biol. Chem.* 278: 48321-48329.

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- You H, Qi X, Grabowski GA, Yu L (2003) Phospholipid membrane interactions of saposin C: *in situ* atomic force microscopic study. *Biophys. J.* 84: 2043-2057.
- Lau JM, You HX, Yu L (2002) Lattice-like array particles on *Xenopus* oocyte plasma membrane. *Scanning* 24:224-231.
- You H, Yu L, Qi X (2001) Phospholipid membrane restructuring induced by saposin C: a topographic study using atomic force microscopy. *FEBS Lett.* 503:97-102.
- Jin M, Mo Y, Liu L, Guo N, Xie Q, Lin Z, Wang X, Li BM, Zhao G, Jing NH, Yu L (2001) An exploration of animal behavior screen platform for novel gene function in central nervous system. *Acta Physiologica Sinica* 53:247-251.
- You H, Lau JM, Zhang S, Yu L (2000) Atomic force microscopy imaging of living cells: a preliminary study of the disruptive effect of the cantilever tip on cell morphology. *Ultramicroscopy* 82:297-305.
- Ai W, Gong J, Yu L (1999) MAP kinase activation by mu opioid receptor involves phosphatidylinositol 3-kinase but not the cAMP/PKA pathway. *FEBS Lett.* 456:196-200.
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- You H, Yu L (1998) Nano-deposition of protein molecules using tapping-mode atomic force microscopy: Facts or artifacts. *Probe Microscopy* 1:233-237.
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- Bond C, LaForge KS, Tian M, Melia D, Zhang S, Borg L, Gong J, Schluger J, Strong JA, Leal SM, Tischfield JA, Kreek MJ, Yu L (1998) Single-nucleotide polymorphism in the human mu opioid receptor gene alters  $\beta$ -endorphin binding and activity: Possible implications for opiate addiction. *Proc. Natl. Acad. Sci. USA* 95:9608-9613.



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- You H, Yu L (1997) Investigation of the image contrast of tapping-mode atomic force microscopy using protein-modified cantilever tips. *Biophys. J.* 73:3299-3308.
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- You H, Yu L (1997) Atomic force microscopy as a tool for study of human hair. *Scanning* 19:431-437.
- Gong J, Li X, Lai Z, Froehlich JC, Yu L (1997) Quantitative comparison of mu opioid receptor mRNA in selected CNS regions of alcohol naïve rats selectively bred for high and low alcohol drinking. *Neurosci. Lett.* 227:9-12.
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- Tong Y, Wei J, Zhang S, Strong JA, Dlouhy SR, Hodes ME, Ghetti B, Yu L (1996) The weaver mutation changes the ion selectivity of the affected inwardly rectifying potassium channel GIRK2. *FEBS Lett.* 390:63-68.
- Tong Y, Zull JE, Yu L (1996) Functional expression and signaling properties of cloned human PTH receptor in *Xenopus* oocytes: Evidence for a novel signaling pathway. *J. Biol. Chem.* 271:8183-8191.
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- Chen Y, Liu J, Yu L (1996) Functional coupling of a  $\mu$  opioid receptor to G proteins and adenylyl cyclase: modulation by chronic morphine treatment. *Addiction Biol.* 1:49-59.
- Lane CM, Jones CRN, Reisine T, Yu L, Lee NM (1995) Alteration of OBCAM conformation as a result of opioid receptor expression and opioid ligand treatment. *Brain Res.* 698:15-22.

- Zhang S, Yu L (1995) Identification of dynorphins as endogenous ligands for an opioid receptor-like orphan receptor. *J. Biol. Chem.* 270:22772-22776.
- Chakrabarti S, Prather PL, Yu L, Law PY, Loh HH (1995) Expression of the  $\mu$ -opioid receptor in CHO cells: ability of  $\mu$ -opioid ligands to promote  $\alpha$ -azidoanilido[ $^{32}$ P]GTP labeling of multiple G protein  $\alpha$  subunits. *J. Neurochem.* 64:2534-2543.
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- Chen C, Xue JC, Zhu J, Chen YW, Kunapuli S, Yu L, Liu-Chen LY (1995) Characterization of irreversible binding of  $\beta$ -funaltrexamine to the cloned rat  $\mu$  opioid receptor. *J. Biol. Chem.* 270:17866-17870.
- Raynor K, Kong H, Mestek A, Bye LS, Tian M, Liu J, Yu L, Reisine T (1995) Characterization of the cloned human mu opioid receptor. *J. Pharmacol. Exp. Ther.* 272:423-428.
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## **TEACHING EXPERIENCE**

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