

CURRICULUM VITAE

1. Name: Xiao-Jiang Li

2. Current title and address:

Professor
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4. Citizenship: U.S.A.

5. Academic Appointments:

1995-1996	Assistant Professor	Department of Psychiatry, Johns Hopkins University School of Medicine
1996-2001	Assistant Professor	Department of Genetics, Emory University
2001-2005	Associate Professor (tenured)	Department of Human Genetics, Emory University University School of Medicine
2005-present	Professor (tenured)	Department of Human Genetics, Emory University University School of Medicine
2007-present	Distinguished Professor of Human Genetics, Emory University	

Other appointments:

2007-present	Guest Professor	Suzhou University, Suzhou, China
2008-present	Guest Professor	Central South University, Changsha, China
2008-present	Chang-Jiang Scholar Professor awarded by Ministry of Education, China	
2010—present	Thousand people plan at Institute of Genetics and Developmental Biology, Chinese Academy of Sciences	

6. Education:

1977-1982	M.D. Medicine	Jiangxi Medical College, PR China
1983-1986	M.S. Pharmacology	Suzhou Medical College, PR China
1987-1991	Ph.D. Pharmacology	Vollum Institute (Mentor: Michael Forte), The Oregon Health Sciences University, Portland, Oregon.

7. Postgraduate Training:

1991-1995 Postdoctoral fellow Laboratory of Dr. Solomon Snyder, Director,
Department of Neuroscience at Johns Hopkins

8. *Committee Memberships:*

a. National and International:

1999, 2004, 2006	Reviewer	The Wellcome Trust Foundation
2006	Reviewer	Medical Research Council
2001	Ad Hoc Member	NIH BDCN-2 study section
2002-2004	Ad Hoc Member	NIH BDCN-3 and NSD-B study sections
2003	Ad Hoc Member	NIH BDCN-2, CNNT-02, study section
2004	Ad Hoc Member	NIH NDBG and SNRP study sections
2004	Reviewer	Philip Morris External Research Program
2006-2007	Reviewer	The National Ataxia Foundation
2003-present	Reviewer	Chinese National Science Foundation
2006-2008	Review board member for key projects of Chinese National Science Foundation	
2007	Reviewer	National Science Foundation, NIH CMBN study section, 2007/10 ZRG1 GGG-T(29)L
2006-2010	Member	NIH CDIN study section
2007-2011	Member	Board of Directors of Chinese Biological Investigators Society (CBIS)

Institutional:

1. Genetic Department Seminar Series Coordinator (1999-2000)
2. The Curriculum committee of GMB program (1999-2002)
3. Recruiting committee of GMB program (2000-2002)
4. Graduate recruitment interview (1997-2002).
5. GMB qualifying exam committee (2002-2005)
6. The Neuroscience Program Executive Committee (2003-2006)
7. NS program qualifying exam committee (2004-)
8. Chair of GMB oral exam committee (2004-2006)
9. The Executive Committee of Genetics Molecular Biology program (2004-2007)

9. *Editorships and Editorial Boards:*

2003-2008	Editorial board member of Journal of Biological Chemistry
2005-present	Associate Editor of Journal of Molecular Neurodegeneration
2006-present	Editorial board member of PLoS One
2009-present	Editorial board member of Journal of Biomedicine and Biotechnology
2008-2010	Editor-in-Chief of Molecular Brain
2010-present	Section Chief of Molecular Brain
2009-present	Associate Editor of Journal of Genetics and Genomics
2012-present	Editorial Board of American Journal of Neurodegenerative Disease

10. *Manuscript reviewer:*

Am. J. Hum. Genet.	Annals of Neurology	The American Journal of Pathology
BBA-Molecular Basis of Dis.	Biochim. Biophys. Acta.	Biochemistry and Cell Biology

BioTechniques.	BM Neuroscience	BM Brain Res.
BMC Molecular Biology	BMC Biology	Cell
Cell Research	Cell Cycle	EMBO J.
EMBO Reports	Experimental Cell Research	Experimental Neurology
FASEB Journal	Histochemistry and Cell Biology	Hum. Mol. Genet.
J. Biol. Chem.	J. Cell. Biol.	
J. Mol. Cell Med.	J. Neurosci.	J. Neurosci. Res.
J. Neurochem.	J. Neurosci. Lett.	J. Pharma. Therapeutics
Mol. Brain	Mol. Brain Res.	Mol Cell Neurosci.
Nature	Nature Medicine	Nature Genetics
Neuroscience	Neurobiol. Dis.	Neruobiol. Aging
PloS One	PNAS	Science
Traffic	Trends in Genetics	Trends in Cell Biology
Trends in Molecular Medicine		

11. **Honors and Awards:**

American Heart Association predoctoral fellowship	1988-1989
TATA fellowship	1990
Asahi Postdoctoral Fellowship	1992-1994
Genetics Molecular Biology graduate program service award	2005-2006
Guest Professor at Tongji Medical College Huazhong University of Science and Technology, Wuhan, China	2001-present
Guest Professor at Soochow University, Suzhou, China	2007-present
Guest Professor at Central South University, Changsha, China	2008-present
Chang-Jiang Scholar Professor awarded by Ministry of Education, China	2008-present
Distinguished Professor of Human Genetics, Emory University	2007-present

14. **Research Grants:**

a. Active grants:

I. Federally funded:

R01 grant AG019206-10	(P.I. Li, X-J)
Synaptic toxicity of Huntington disease protein	
NIH/AG	05/01/2001-07/31/2017
R01 grant NS036232-13	(P.I. Li, X-J)
Neuronal function of huntingtin associated protein	
NIH/NINDS	01/1/21998-11/30/2016
(Competing renewal priority score: 27, 12 percentile).	
R01 grant: NS041669-11	(P.I. Li, X-J)
Nuclear effect of Huntington disease protein	
NIH/NINDS	5/1/2001-01/31/2016

15. **Formal teaching**

a. Medical Student Teaching

1996-present Facilitator Human and Molecular Genetics (MEDI-545)

b. Graduate Program

1997 Lecturer Molecular biology techniques (IBS-730R course)
 1998-1999 Co-Director Molecular Neurobiology (IBS-750) 3 credits
 1999-2001 Lecturer Human and Molecular Genetics (IBS-505)
 2000 Lecturer IBS 570r Introduction to Genetics Seminar
 2002 Lecturer Genetic bases of diseases (IBS-750) 2 credits
 2002-present Lecturer MODEL GENETIC SYSTEMS (IBS 560) 4 Credits
 2000-present Director and Lecturer Molecular Neurobiology (IBS-750) 4 credits
 2006-present Lecture Basic mechanisms of neurological diseases
 IBS-506 4 credits

16. Supervising teaching:

a. Ph.D. student directly supervised:

<i>Name</i>	<i>Current position</i>
Jeffrey J. Levine	Research Associate at CDC
Anna Cheng	Associate at Amersham Life Sci. Inc
Rusty McGuire	Postdoctor at the Curie Institute in Paris
Ji-Yeon Shin	Postdoctor at Columbia University
Jonathan Cornett	Postdoctor at Yale University
Juan Rong	Postdoctor at The Burnham Institute, San Diego
Meyer Friedman	Postdoctor at UCSD, San Diego
Adam Orr	Postdoctor at Buck Institute, San Francisco
Suzanne Tydlacka	Postdoctor at NIH, Bethesda, Maryland
Anjali Shah	Senior consultant at Booz Allen Hamilton
Jennifer Bradford	Postdoctor at University of Carolina at Chapel Hill
Austin Cape	Senior Research Project Coordinator at Division of Medical Genetics, Emory University
Lauren Smith	Postdoctor at Winship Cancer Center at Emory University
Moe H Aung	2007-2009 at Emory University
Xiang Li	2007-2009 (visiting Ph.D. student from Huazhong University of Science and Technology, China)
Brandy Wade	2009-present at Emory University
Kevin Xiang	2009-present at Emory University
Su Yang	2009-present at Emory University
Brenda Huang	2010-present at Emory University
Meredith Roberts	2010-present at Emory University
Qiaoqiao Xu	2010-present (visiting Ph.D. student from Huazhong University of Science and technology, China)
Ling Weng	2010-present (visiting Ph.D. student from Central South University, China)
Ting Zhao	2011-present at Emory University
Sen Yan	2011-present (visiting Ph.D. student from Jilin University, China)
Wenjie Wei	2013-present (visiting Ph.D. student from Huazhong University of Science and technology)
Yang Yang	2013-present (visiting Ph.D. student from Central South University, China)

Post-doctoral fellows directly supervised:

<i>Name</i>	<i>Current position</i>
He Li, Ph.D,	Professor and Director for Basic Medical Science Division, Tongji Medical University
Fengli Cao, Ph.D.	Research Scientist at CDC, Atlanta
Zhishang Wang, Ph.D.	Research Associate at University of Alabama
Majula Rao, Ph.D.	Research Scientist at University of Washington
Zhaoxue Yu, Ph.D.	Research Scientist at Yale University
Hui Zhou, Ph.D.	Research Scientist at CDC, Atlanta
Guoqing Sheng, Ph.D.	Investigator at Guangzhou Institute of Biomedicine and Health, Chinese Academy of Sciences
Jianjun Wang, Ph.D.	Research Scientist in Department of Psychiatry at Emory University
Xing-Shun Xu, Ph.D.	Professor at Suzhou University, China
Chuan-En Wang, Ph.D.	Instructor in Department of Human Genetics at Emory University
Yung-Feng Lin, Ph.D.	Professor at Taipei Medical University, Taiwan
Hao Yang, Ph.D.	Assistant Professor, Fourth Military Medical University, Xian
Shanshan Huang, Ph.D.	Postdoctor, 2008-present at Emory University
Kavita P Bhat, Ph.D.	Postdoctor, 2010-present at Emory University
Xiangyu Guo, Ph.D.	Postdoctor, 2011-present at Emory University
Miao Sun, Ph.D.	Postdoctor, 2012-present at Emory University
Denis Kiktev, Ph.D.	Postdoctor, 2013-present at Emory University
Jifeng Gou, M.D.	Postdoctor, 2014-present at Emory University

Medical students supervised:

Huu Phuc Nguyen, M.D.	Investigator at University of Tuebingen
Heip Nguyen, M.D.	Residence at University of Hamburg

Undergraduate directly supervised:

1999-2001	Robert Elder B.S. (Highest Honor Thesis)
1999-2000	Kristy Labib B.S.
2001-2001	Chandra Lindy Gilmore B.S.
2001	Natia Silagadze B.S.
2001-2002	Ajay Pillarisetti B.S.
	Arom Young
2002-2003	Chanwan Ryu (Wonnie) B.S.
	Mara S. Meyer
	Janese D. Marshall
2004-2005	James H. Marcus
2008-2010	Ruth D. Blum (Emory SIRE program)
2010-	Jonathan I. Grenadir
2010-2011	Karthik S Ponnappa
2011-	Benjamin J. Redpath

SURE Program for Undergraduate Students:

2000	Robert Elder	(Emory University, Atlanta, GA)
2001	Amy Burnett	(Kennesaw State University, Atlanta, GA)
2002	Pamela Gehring	(Wittenberg University, Springfield, OH)
2009	Joseph J. Ling	(Emory University, Atlanta, GA)

Rotation Graduate Students:

1998	Daniel McClatchy	NS Program
1998	Matthew Palmer	M.D/Ph.D Program
2001	Kim Dougherty	NS Program
2002	Bilge D. Kalyon	MD/Ph.D Program
2003	Hyesuk Yoon	GMB program
	Rochelle Kane-Jackson	NS program
2006	Ge Xiong	GMB program
	Anriana Simionescu	GMB program
2007	Amanda Caster	NS Program

Thesis committees:

Chris Doering (graduated)	GMB program
Travis Wohlers (graduated)	GMB program
Alick K.T. Law (graduated)	NS program
Amy Katherine Sullivan (graduated)	GMB program
Joanna M. Bonsall (graduated)	M.D./Ph.D. and NS program
Liz Hammock (graduated)	NS program
Emily Graves (graduated)	GMB program
Eric Muller (graduated)	GMB program
Mindy Martin (graduated)	GMB program
Liliya Iskhakova (graduated)	NS program
Lei Xing (graduated)	BCDB program
Zoe Donaldson (graduated)	NS Program
Shang-Hsun Yang (graduated)	GMB Program
ChenYing Su (graduated)	GMB Program
Terrell Brotherton (graduated)	NS Program
Nicole L. Umberger	GMB program

18: *Bibliography:****a. Research articles:***

1. **Li, X-J**, Wang, D.S. and Chen, X.Z. Effects of amrinone on contractile activity, cyclic nucleotides and adenylate cyclase activity of cultured rat heart cells. Acta. Pharmacol. Sin. 8: 429-433, 1987.
2. **Li, X-J.**, Tanz, R.D. and Chang, K.S.K. Effect of age and methacholine on rate and coronary flow of isolated diabetic rat heart. Br. J. Pharmacol. 97: 1209-1217, 1989.

3. **Li, X-J.**, Wolfgang, W. J., Wu, Y.N., North, R. A. and Forte, M. Cloning, heterologous expression and developmental regulation of *Drosophila* receptor for tachykinin-like peptides. EMBO. J. 10: 3221-3229, 1991
4. **Li, X-J.** Supersensitivity of isolated atria from diabetic rats to adenosine and methacholine: modulation by pertussis toxin. J. Pharm. Pharmacol. 44: 142-144, 1992.
5. **Li, X-J.**, Wu, Y.N., North, R. A. and Forte, M. Cloning, functional expression and developmental regulation of neuropeptide Y receptor from *Drosophila melanogaster*. J. Biol. Chem. 267: 9-12, 1992.
6. **Li, X-J.**, Forte, M., North, R. A. Ross., C.A. and Snyder, S.H. Cloning and expression of a rat somatostatin receptor enriched in brain. J. Biol. Chem. 267: 21307-21312, 1992.
7. Li, S-H., Schilling, G., Young W.S., **Li, X-J.**, Margolis, R.L., Stine, O.C, Wagster, M.V., Abbott, N.H., Franz, M.L., Ranen, M.G., Folstein, S.E., Hedreen, J.C. and Ross, C.A. Huntington's disease gene (IT15) is widely expressed in human and rat tissues. Neuron 11: 985-93, 1993.
8. **Li, X-J.**, Blackshaw, S., Snyder, S.H. Expression and localization of amiloride-sensitive sodium channel indicate a role for non-taste cells in taste perception. Proc. Natl. Acad. Sci. USA 91: 1814-8, 1994.
9. Hershberger, R.E., Newman, B.L., Florio, T., Bunzow, J., Civelli, O., **Li, X-J.**, Forte, M., Stork, P.J. The somatostatin receptors SSTR1 and SSTR2 are coupled to inhibition of adenylyl cyclase in Chinese hamster ovary cells via pertussis toxin-sensitive pathways. Endocrinology. 134: 1277-85, 1994.
10. **Li, X-J.**, Xu, R-H., Guggino, W.B. and Snyder, S.H. Alternatively spliced alpha subunits of epithelial sodium channel: distinct sites for amiloride binding and channel pore. Mol. Pharmacol. 47: 1133-1140, 1995.
11. Sharp, A.H., Loev, S.J., Schilling, G., Li, S-H., **Li, X-J.**, Bao, J., Wagster, M. Steiner, J.P., Lo, A. Hederen, J., Sisodia, S., Snyder, S.H., Dawson, T.M., Ryugo, D.K, Ross, C.A. Widespread expression of Huntington's disease gene (IT-15) protein product: Enrichment in nerve terminals. Neuron 14: 1065-1074, 1995.
12. **Li, X-J.** and Snyder, S.H. Molecular cloning of Ebnerin: a von Ebner's gland protein associated with taste buds. J. Biol. Chem. 270: 17674-17679, 1995
13. **Li, X-J.**, Li, S-H, Sharp, A.H., Nucifora Jr., F.C., Schilling, G., Lanahan, A., Worley, P., Snyder, S.H. and Ross, C.A. A huntingtin-associated protein enriched in brain with implications for pathology. Nature 378: 398-402 1995.
14. **Li, X-J.**, Sharp, A.H., Li, S-H., Dawson, T.M., Snyder, S.H. and Ross, C.A.

Huntingtin associated protein (HAP1): discrete neuronal localizations in the brain resemble those of neuronal nitric oxide synthase.

Proc. Natl. Acad. Sci. USA 93: 4839-4844 1996.

15. Li, S-H, Gutekunst, C.A., Hersch, S.M. and **Li, X-J**. Interaction of huntingtin associated protein with dynactin p150Glued.

J. Neurosci. 18: 1261-1269, 1998

16. Li, S-H. and **Li, X-J**. Aggregation of the N-terminus of huntingtin depends on its length of glutamine repeat

Hum. Mol. Genet. 7: 777-782, 1998

17. Li, S-H., Hossenin S.H., Gutekunst, C.A., Ferrante, R.J., Hersch, S.M. and **Li, X-J**.

A human HAP1 homologue: cloning, expression and interaction with huntingtin.

J. Biol. Chem. 273: 19220-19227, 1998

18. Gutekunst, C.A., Li, S-H., Hong Y., Ferrante, R.J., **Li, X-J**., Hersch, S.M.

The cellular and subcellular localization of huntingtin associated protein 1 (HAP1): comparison with huntingtin in rat and human.

J. Neurosci. 18: 7674-7686, 1998.

19. Li, S-H., Gutekunst, C.A., Hersch, S.M. and **Li, X-J**. Association of HAP1 isoforms with a unique cytoplasmic structure.

J. Neurochem. 71: 2178-2185, 1998.

20. Li, S-H., Cheng A.L., Li, H., **Li, X-J**. Cellular defects and altered gene expression in PC12 cells stably expressing mutant huntingtin.

J. Neurosci. 19:5159-5172, 1999.

21. Li, H., Li, S-H., Cheng, A.L., Mangiarini, L., Bates, G.P. and **Li, X-J**.

Ultrastructural localization and progressive formation of neuropil aggregates in Huntington disease transgenic mice.

Hum. Mol. Genetics, 7:1227-1236, 1999.

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J. Neurosci. 19:2522-2534, 1999.

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Inhibition of caspase-1 slows disease progression in a mouse model of Huntington's disease.

Nature 399:263-267, 1999

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Neuron 23: 181-192, 1999.

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27. Li, H., Li, S-H., Johnston, H., Shelbourne, P., **Li, X-J.**
Amino-terminal fragments of mutant huntingtin show selective accumulation in striatal neurons and synaptic toxicity.
Nature Genetics, 25: 385-389, 2000
28. Li, S-H., Li, H., Torre, E.R., **Li, X-J.** Expression of huntingtin associated protein-1 in neuronal cells implicates a role in neurite outgrowth.
Mol. Cell. Neurosci. 16: 168-183, 2000.
29. Li, S-H. Lam S. Cheng AL and **Li X-J.** Intranuclear huntingtin increases the expression of caspase-1 and induces apoptosis.
Hum. Mol Genetics, 9: 2859-2867, 2000.
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Survival of fetal striatal transplants in a patient with Huntington's disease.
Proc. Natl. Acad. Sci. USA 97:13877-13882, 2000.
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Hum. Mol. Genet. 10: 137-144, 2001.
32. Cao FL, Levine, JJ, Li S-H. and **Li X-J.** Nuclear aggregation of huntingtin is not prevented by deletion of chaperone Hsp104.
Biochim. Biophys. Acta, 1537: 158-166, 2001
33. Schilling, G., Jinnah, H.A., Gonzales, V., Coonfield, M.L., Kim, Y., Wood, J.D., Price, D.L., **Li, X-J.**, Jenkins, N., Copeland, N., Moran T., Ross, C.A., Borchelt, D.R,
Distinct behavioral and neuropathological abnormalities in transgenic mouse models of HD and DRPLA.
Neurobiol. Dis. 8: 405-18, 2001.
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Neurobiol. Dis. 8: 1017-1026, 2001.
35. Li, H. Li, S-H, Yu, Z-X., Shelbourne, P and **Li, X-J.** Axonal degeneration is an early pathological event in Huntington's disease mice.
J. Neurosci. 21: 8473-8481, 2001.

36. Zhou, H, Li, S-H, **Li, X-J**. Chaperone suppression of cellular toxicity of huntingtin is independent of polyglutamine aggregation.
J. Biol. Chem., 276: 48417-48424, 2001
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Eur. J. Neurosci. 14, 1492-1504, 2001
39. Li, S-H. Cheng AL, Zhou, H, Rao M., Lam, S, Li H. and **Li X-J**. Interaction of mutant huntingtin and transcriptional activator Sp1.
Mol. Cell. Biol. 22: 1277-1287, 2002
40. Yu, Z-X, Li, S-H, Nguyen H-P, **Li, X-J**. Huntingtin inclusions do not deplete polyglutamine-containing transcription factors in HD mice.
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J. Biol. Chem. 277: 19831-19838, 2002.
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J. Neurosci. 22: 8266-8276, 2002.
43. Yu, Z-X., Li, S-H., Evans, J., Pillarisetti, A., Li, H., **Li, X-J**. Mutant huntingtin causes context-dependent neurodegeneration in mice with Huntington's disease.
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Hum Mol Genet 12: 617-624, 2003
45. Duan W., Guo Z., Jiang H., Ware M., **Li X.J.**, Mattson M.P. Dietary restriction normalizes glucose metabolism and BDNF levels, slows disease progression, and increases survival in huntingtin mutant mice.
Proc Natl Acad Sci U S A 100: 2911-2916, 2003
46. Liou Y-Y, Sun A, Ryo A, Zhu X-C, Yu Z-X, Huang H-K, Bronson R, Bing, G, **Li X-J**, Hunter T and Lu K-P. Role of the prolyl isomerase Pin1 in protecting against age-dependent neurodegeneration.
Nature 424: 556-561, 2003
47. Slow, E. J., Van Raamsdonk, J., Rogers, D., Coleman, S. H., Graham, R. K., Deng, Y., Oh, R., Bissada, N., Hossain, S. M., Yang, Y. Z., **Li, X. J.**, Simpson, E. M., Gutekunst, C. A., Leavitt, B. R. and Hayden, M. R. Selective striatal neuronal loss in a YAC128 mouse model of Huntington disease.
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Hum. Mol. Genetic, 12: 2021-2030, 2003
49. Li, S-H, Yu, Z-X., Li, C-L., Nguyen, H-P., Zhou, Y-X., Deng, C.X., **Li, X-J.**
Lack of huntingtin-associated protein-1 causes neuronal death resembling hypothalamic degeneration in Huntington's disease.
J. Neurosci., 23: 6956-6964, 2003
50. Zhou, H, Cao, F-L., Wang, Z-S., Yu, Z-X., Nguyen, H-P., Evan, J., Li, S-H., **Li, X-J.**
Huntingtin forms toxic N-terminal fragment complexes that are promoted by the age-dependent decrease in proteasome activity.
J. Cell Biol, 163: 109-118, 2003
51. Cornett J., Cao FL., Wang CE., Ross CA., Bates GP., Li, SH., **Li X-J.** Polyglutamine expansion of huntingtin impairs its nuclear export.
Nature Genetics, 37:198-204, 2005
52. Gu, X., Li, C., Wei, W., Lo, V., Gong, S., Li, S. H., Iwasato, T., Itohara, S., **Li, X. J.**, Mody, I., Heintz, N., and Yang, X. W. Pathological cell-cell interactions elicited by a neuropathogenic form of mutant Huntingtin contribute to cortical pathogenesis in HD mice.
Neuron 46: 433-444, 2005.
53. Liao, M., Shen, J., Zhang, Y., Li, S. H., **Li, X. J.** and Li, H. Immunohistochemical localization of huntingtin-associated protein 1 in endocrine system of the rat.
J Histochem Cytochem 53:1517-1524, 2005.
54. Shin, J. Y., Fang, Z. H., Yu, Z. X., Wang, C. E., Li, S. H. and **Li, X. J.** Expression of mutant huntingtin in glial cells contributes to neuronal excitotoxicity.
J Cell Biol 171: 1001-1012, 2005.
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Proc Natl Acad Sci U S A 103:3405-3409, 2006.
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