CURRICULUM VITAE

Personal Information

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Education

2002 - 2003	**Medical Doctor**, University of Bern, Bern, Switzerland, 2003 MD thesis: *Molecular and genetic analysis in primary dystonia*
1996 - 1999	**Master of Medical Science**, West China University of Medical Sciences, Chengdu, China, 1999 Dissertation: *Protective and superimposing effects of Estradiol, Breviscapini, Lumbrokinase on focal cerebral ischemic-reperfusion injury in rats*
1988 - 1993	**Bachelor of Medical Science**, Suzhou Medical College, Suzhou, China, 1993

Professional Experience

2011.7- **Professor** in the Dept. of Neurology, West China, Hospital, Sichuan, University, Chengdu, China

2009- 2011	**Associate professor** in the Dept. of Neurology, West China, Hospital, Sichuan, University, Chengdu, China
2008-2009	**Research fellow** in the Dept. of Pharmacology, Texas University, SanTonio, Texas, United States
2006 - 2008	**Associate professor** in the Dept. of Neurology, West China Hospital, Sichuan University, Chengdu, China *In charge of teaching medical students, residents, trained doctors in neurology. Supervise graduate students*
2004 - 2006	**Attending physician** in the Dept. of Neurology, West China Hospital, Sichuan University, Chengdu, China *In charge of teaching medical students, residents, trained doctors neurology*
2002 - 2004	**Research Fellow** in the Neuromorphologic Laboratory, Dept. of Neurology, Inselspital, Bern University, Bern, Switzerland Sponsored by *IBRO*; Project: *Molecular genetic investigation of dystonia in a Swiss and Chinese population*
1997 - 2001	**Resident, chief resident and attending physician** in the Dept. of Neurology, West China Hospital, Chengdu, China *In charge of teaching interns neurology* Research project sponsored by *Chinese Ministry of Health*; Project: *Multicentric Randomised Controlled Trial of Patients with Acute Cerebral Infarction Treated with Cyclophosphamide and Colchicine*
1993 - 1996	**Resident** in Dept. of Neurology, Chengdu No. 416 Hospital, Chengdu, Sichuan, China

Publications List

Refereed Journal Papers in English

1) Chen Y, Wei QQ, Ou R, Cao B, Chen X, Zhao B, Guo X, Yang Y, Chen K, Wu Y, Song W, Shang HF. Genetic Variants of SNCA Are Associated with Susceptibility to Parkinson's Disease but Not Amyotrophic Lateral Sclerosis or Multiple System Atrophy in a Chinese Population. PLoS One. 2015 Jul 24;10 (7):e0133776. (**Corresponding author**)

2) Chen X, Chen Y, Wei Q, Guo X, Cao B, Ou R, Zhao B, Shang HF. Assessment of TREM2 rs75932628 association with amyotrophic lateral sclerosis in a Chinese population. J Neurol Sci. 2015 Aug 15;355(1-2):193-5. (**Corresponding author**)

3) Luo C, Guo X, Song W, Chen Q, Yang J, Gong Q, Shang HF. The trajectory of disturbed resting-state cerebral function in Parkinson's disease at different Hoehn and Yahr stages. Hum Brain Mapp. 2015 Aug;36(8):3104-16. (C**Corresponding author**)

4) Luo CY, Guo XY, Song W, Chen Q, Cao B, Yang J, Gong QY, Shang HF. Functional connectome assessed using graph theory in drug-naive Parkinson's disease. J Neurol. 2015 Jun;262(6):1557-67. (C**Corresponding author**)

5) Ou R, Guo X, Wei Q, Cao B, Yang J, Song W, Chen K, Zhao B, Chen X, Shang H. Diurnal drooling in Chinese patients with Parkinson's disease. J Neurol Sci. 2015 Jun 15;353(1-2):74-8. (**Corresponding author**)

6) Ou R, Guo X, Wei Q, Cao B, Yang J, Song W, Shao N, Zhao B, Chen X, Shang H. Prevalence and clinical correlates of drooling in Parkinson disease: a study on 518 Chinese patients. Parkinsonism Relat Disord. 2015 Mar;21(3):211-5. (**Corresponding author**)

7) Guo X, Song W, Chen K, Chen X, Zheng Z, Cao B, Huang R, Zhao B, Wu Y, Shang HF. Associations between neuropsychiatric symptoms and cognition in Chinese idiopathic Parkinson's disease patients. J Clin Neurosci. 2015 Mar;22(3):578-82. (**Corresponding author**)

8) Wei Q, Chen X, Zheng Z, Guo X, Huang R, Cao B, Zeng Y, Shang H. The predictors of survival in Chinese amyotrophic lateral sclerosis patients. Amyotroph Lateral Scler Frontotemporal Degener. 2015 Jun;16(3-4):237-44. (**Corresponding author**)

9) Yuan X, Chen Y, Cao B, Zhao B, Wei Q, Guo X, Yang Y, Yuan L, Shang H. An association analysis of the R1628P and G2385R polymorphisms of the LRRK2 gene in multiple system atrophy in a Chinese population. Parkinsonism Relat Disord. 2015 Feb;21(2):147-9. (**Corresponding author**)

10) Shao N, Yang J, Shang H. Voxelwise meta-analysis of gray matter anomalies in Parkinson variant of multiple system atrophy and Parkinson's disease using anatomic likelihood estimation. Neurosci Lett. 2015 Feb 5;587:79-86. (**Corresponding author**)

11) Chen YP, Zhao B, Cao B, Song W, Guo X, Wei QQ, Yang Y, Yuan LX, Shang HF. Mutation scanning of the COQ2 gene in ethnic Chinese patients with multiple-system atrophy. Neurobiol Aging. 2015 Feb;36(2):1222.e7-11. (**Corresponding author**)

12) Wei Q, Chen X, Zheng Z, Huang R, Guo X, Cao B, Bak TH, Shang H. Screening for cognitive impairment in a Chinese ALS population. Amyotroph Lateral Scler Frontotemporal Degener. 2015 Mar;16(1-2):40-5. (**Corresponding author**)

13) Chen X, Feng W, Huang R, Guo X, Chen Y, Zheng Z, Shang H. Evidence for peripheral immune activation in amyotrophic lateral sclerosis. J Neurol Sci. 2014 Dec 15;347(1-2):90-5. (**Corresponding author**)

14) Chen D, Guo X, Zheng Z, Wei Q, Song W, Cao B, Huang R, Yang R, Huifang S. Depression and anxiety in ALS: Correlations between the distress of patients and caregivers. Muscle Nerve. 2015 Mar; 51(3):353-7. (Co-**Corresponding author**)

15) Wei Q, Chen X, Zheng Z, Huang R, Guo X, Cao B, Zhao B, **Shang** HF. Frontal lobe function and behavioral changes in amyotrophic lateral sclerosis: a study from Southwest **China**. J Neurol. 2014 Dec; 261(12): 2393-400 (**Corresponding author**)

16) Guo XY, Chen YP, Song W, Zhao B, Cao B, Wei QQ, Ou RW, Yang Y, Yuan LX, **Shang** HF. SNCA variants rs2736990 and rs356220 as risk factors for Parkinson's disease but not for amyotrophic lateral sclerosis and multiple system atrophy in a Chinese population. Neurobiol Aging. 2014 Dec; 35(12):2882.e1-6 (**Corresponding author**)

17) Ou R, Guo X, Song W, Cao B, Yang J, Wei Q, Shao N, **Shang** H. Freezing of gait in Chinese patients with Parkinson Disease. J Neurol Sci. 2014 Oct 15;345(1-2):56-60. (**Corresponding author**)

18) Guo XY, Chen YP, Song W, Zhao B, Cao B, Wei QQ, Ou RW, Yang Y, Yuan LX, **Shang** HF. An association analysis of the rs1572931 polymorphism of the RAB7L1 gene in Parkinson's disease, amyotrophic lateral sclerosis and multiple system atrophy in **China**. Eur J Neurol. 2014 Oct; 21(10):1337-43. (**Corresponding author**)

19) Zhao B, Wei Q, Wang Y, Chen Y, **Shang** H. Posterior reversible encephalopathy syndrome in acute intermittent porphyria. Pediatr Neurol. 2014 Sep; 51(3):457-60.

20) Ou R, Guo X, Song W, Cao B, Wei Q, Shao N, Zhao B, **Shang** H. Characteristics of non-motor symptoms in patients with Parkinson's disease exhibiting camptocormia. Gait Posture. 2014 Jul;40(3):447-50. (**Corresponding author**)

21) Chen X, Guo X, Huang R, Chen Y, Zheng Z, **Shang** H. Serum uric acid levels in patients with Alzheimer's disease: a meta-analysis. PLoS One. 2014 Apr 8;9(4):e94084. (**Corresponding author**)

22) Wu Y, Guo XY, Wei QQ, Song W, Chen K, Cao B, Ou RW, Zhao B, **Shang** HF. Determinants of the quality of life in Parkinson's disease: results of a cohort study from Southwest **China**. J Neurol Sci. 2014 May 15;340(1-2):144-9. (**Corresponding author**)

23) Shao N, Yang J, Li J, **Shang** HF. Voxelwise meta-analysis of gray matter anomalies in progressive supranuclear palsy and Parkinson's disease using anatomic likelihood estimation. Front Hum Neurosci. 2014 Feb 18;8:63. (**Corresponding author**)

24) Cao B, Guo X, Chen K, Song W, Huang R, Wei QQ, Zhao B, **Shang HF.** Serum lipid levels are associated with the prevalence but not with the disease progression of multiple system atrophy in a Chinese population. Neurol Res. 2014 Feb;36(2):150-6.

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27) Yang J, Luo C, Song W, Guo X, Zhao B, Chen X, Huang X, Gong Q, **Shang** HF. Diffusion tensor imaging in blepharospasm and blepharospasm-oromandibular dystonia. J Neurol. 2014 Jul;261(7):1413-24. (Co-**Corresponding author**)

28) Chen X, Guo X, Huang R, Zheng Z, Chen Y, **Shang** HF. An exploratory study of serum creatinine levels in patients with amyotrophic lateral sclerosis. Neurol Sci. 2014 Oct;35(10):1591-7. (**Corresponding author**)

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38) Luo C, Song W, Chen Q, Zheng Z, Chen K, Cao B, Yang J, Li J, Huang X, Gong Q, **Shang HF**. Reduced functional connectivity in early-stage drug-naive Parkinson's disease: a resting-state fMRI study. Neurobiol Aging. 2014, 35(2):431-41. (Co-**Corresponding author**)

39) Cao B, Tang Y, Li J, Zhang X, **Shang HF**, Zhou D. A meta-analysis of voxel-based morphometry studies on gray matter volume alteration in juvenile myoclonic epilepsy. Epilepsy Res. 2013 Oct;106(3):370-7. (**Corresponding author**)

40) Yang J, Luo C, Song W, Chen Q, Chen K, Chen X, Huang X, Gong Q, **Shang** H. Altered regional spontaneous neuronal activity in blepharospasm: a resting state fMRI study. J Neurol. 2013 Nov;260(11):2754-60. (**Corresponding author**)

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42) Chen Y, Song W, Yang J, Chen K, Huang R, Zhao B, Cao B, Burgunder J, **Shang** HF. Association of the Val66Met polymorphism of the BDNF gene with primary cranial-cervical dystonia patients from South-west China. Parkinsonism Relat Disord. 2013 Nov;19(11):1043-5. (**Corresponding author**)

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Chinese Parkinson's disease patients. J Neurol Sci. 2013 Jul 15;330(1-2):32-7. (**Corresponding author**)

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51) Zheng Z, Sheng L, **Shang H**. Statins and amyotrophic lateral sclerosis: a systematic review and meta-analysis. Amyotroph Lateral Scler Frontotemporal Degener. 2013 May;14(4):241-5 (**Corresponding author**)

52) Chen Y, Chen K, Burgunder JM, Song W, Huang R, Zhao B, Cao B, Chen X, Jiang Y, **Shang HF.** Association of rs1182 polymorphism of the DYT1 gene with primary dystonia in Chinese population. J Neurol Sci. 2012 Dec 15;323(1-2):228-31. (**Corresponding author**)

53) Luo C, Chen Q, Huang R, Chen X, Chen K, Huang X, Tang H, Gong Q, **Shang HF**. Patterns of spontaneous brain activity in amyotrophic lateral sclerosis: a resting-state FMRI study. PLoS One. 2012;7(9):e45470. (**Corresponding author**)

54) Chen Y, Huang R, Chen K, Song W, Yang Y, Zhao B, Li J, **Shang** HF. Association analysis of PON polymorphisms in sporadic ALS in a Chinese population. Neurobiol Aging. 2012 Dec;33(12):2949.e1-3. (**Corresponding author**)

55) Chen Y, Zeng Y, Huang R, Yang Y, Chen K, Song W, Zhao B, Li J, Yuan L, **Shang** HF. No association of five candidate genetic variants with amyotrophic lateral sclerosis in a Chinese population. Neurobiol Aging. 2012 Nov;33(11):2721.e3-5. (**Corresponding author**)

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57) Yang J, Pan P, Song W, **Shang** HF. Quantitative meta-analysis of gray matter abnormalities in semantic dementia. J Alzheimers Dis. 2012 Jan 1;31(4):827-33. (**Corresponding author**)

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59) Chen K, Chen YP, Song W, Huang R, Zhao B, Cao B, Yang Y, Satake W, Toda T, **Shang HF**. Association analysis of LRP8 SNP rs3820198 and rs5174 with Parkinson's disease in Han Chinese population. Neurol Res. 2012 Sep;34(7):725-9. (**Corresponding author**)

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61) Li J, Pan P, Song W, Huang R, Chen K, **Shang H**. A meta-analysis of diffusion tensor imaging studies in amyotrophic lateral sclerosis. Neurobiol Aging. 2012，33(8):1833-8. (**Corresponding author**)

62) Chen Y, Burgunder JM, Song W, Huang R, **Shang HF**. Assessment of D216H DYT1 polymorphism in a Chinese primary dystonia patient cohort. Eur J Neurol. 2012, 19(6):924-6 (**Corresponding author**)

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65) Yang J, Pan P, Song W, Huang R, Li J, Chen K, Gong Q, Zhong J, Shi H, **Shang H**. Voxelwise meta-analysis of gray matter anomalies in Alzheimer's disease and mild cognitive impairment using anatomic likelihood estimation. J Neurol Sci. 2012, 316, 21-29. (**Corresponding author**)

66) Zheng Z, Pan P, Wang W, **Shang H**. Neural network of primary focal dystonia by an anatomic likelihood estimation meta-analysis of gray matter abnormalities. J Neurol Sci. 2012, 316, 51-55. (**Corresponding author**)

67) Wei Song, YongPing Chen, Rui Huang, Ke Chen, Ping Lei Pan, Jianpeng Li, Yuan Yang1, **Hui-Fang Shang**. Analysis of the genotype of diacylglycerol kinase delta single-nucleotide polymorphisms in Parkinson disease in the Han Chinese population. Neurology India. 2012, 60 (1): 82－5. (**Corresponding author**)

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amyotrophic lateral sclerosis. Neurobiol Aging. 2011, 32(10):1925.e1-5. (**Corresponding author**)

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1) Q. Chen, D. Zhou, Q.-Y. Gong, J.-M. Burgunder, **H.-F. Shang**. White matter abnormalities in pure hereditary spastic paraparesis: A diffusion tensor imaging study. Movement Disorder*s*. 2008, 23: Suppl (1): S54, (Abstract, corresponding author).
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3) S. Zhang, X. Chen, Y. Zhang, **H. Shang**. A prospective survey of clinical character of patients with primary dystonia from South-West China. Movement Disorders. 2008, 23: Suppl (1): S182 (Abstract, corresponding author).
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9) **Huifang Shang**, Nicole Clerc, Doris Lang, Jean-Marc Burgunder, Alain Kaelin-Lang. *Clinical presentation of familial and sporadic primary dystonia in a cohort of adult patients*. Movement disorders, 2004, 19: Suppl (9):S113 (Abstract)

Grants

2005 - 2007 **Principal investigator**

Project: *The role of vesicle membrane proteins, cytoskeleton proteins and ion channels in the mechanism of DYT1 and SGCE gene involved in dystonia by using sma*ll *RNA interference inhibited the expression of DYT1 and SGCE gene in neurons*.

Funded by: *National Natural Science Foundation of China*

2010 - 2012 **Principal investigator**

Project: *Study on abnormal function and structural neuronal network in MPTP-induced chronic PD rhesus model*

Funded by: *National Natural Science Foundation of China*

2014 - 2017 **Principal investigator**

Project: *MiRNA in the pathogenesis of amyotrophic lateral sclerosis*

Funded by: *National Natural Science Foundation of China*

2016 - 2019 **Principal investigator**

Project: *Imaging in genetics in in cognitive impairment of Parkinson's disease*

Funded by: *National Natural Science Foundation of China*