

Curriculum Vitae

Contact Information

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1. EDUCATION

Dates	Institution	Major & Degree
Aug 1998–Jul 2001	Institute of Mental Health, Peking University	Psychiatry, Doctor (Graduated in 2001. Got degree in 2002)
Aug 1988–Aug 1991	Tianjin Medical University	Neurosurgery, Master
Sep 1979–Aug 1984	Hebei Medical College	Medicine, Bachelor

2. RELEVANT EXPERIENCE

Dates	Institution	Position
Feb 2011- now	Center for Cognition and Brain Disorders, Hangzhou Normal University	Professor, Deputy Director
Aug 2005-Feb 2011	State Key Lab of Cognitive Neuroscience and Learning, Beijing Normal University	Professor
Jul 2004-Aug 2005	National Lab of Pattern Recognition, Institute of Automation Chinese Academy of Sciences	Associate Professor
Jul 2002-July 2004	National Lab of Pattern Recognition, Institute of Automation Chinese Academy of Sciences	Postdoctoral Fellow
Jul 2001-July 2002	Institute of Psychology, Chinese Academy of Sciences	Visiting Scholar
Jan 1995–Aug 1998	Department of Neurosurgery, Shijiazhuang Brain Hospital	Director, Associate Professor
Sep 1991–Dec 1994	Department of Neurosurgery, 2 nd Hospital of Hebei Medical College	Physician-in-charge
Aug 1984–Aug 1988	Department of Neurosurgery, 2 nd Hospital of Hebei Medical College	Resident

3. ACTIVITIES:

3.1. Membership of organizations:

Organization of Human Brain Mapping, Member, (2004-)

Division of Methodology for Neuroscience, Chinese Society for Neuroscience, Committee member (2009-)

Division of Neuropsychopharmacology, Chinese Society of Pharmacology, Committee member (2010-)

3.2. Journal Editor (or Board):

Brain Connectivity, Editorial board (2010-)

Shanghai Archives of Psychiatry, Editorial board (2011-)

PLoS ONE, Academic editor (2011-)

3.3. Journal Peer Review:

(For journals in English) Behavioral and Brain Functions; Biological Psychiatry; Brain Connectivity; Brain Research; Cerebral Cortex; Chinese Journal of Medicine; Chinese Science Bulletin; Current Drug Abuse Reviews; Expert Review Neurotherapeutics; Human Brain Mapping; IEEE Trans Med Imaging; Journal of Affective Disorders; Journal of Alzheimer Disease; Journal of Magnetic Resonance Imaging; Journal of Neuroscience Methods; NeuroImage; Neuroscience Bulletin; Neuroscience & Biobehavioral Reviews; Neuroscience Letters; PLOS Computational Biology; PLoS ONE; Progress in Natural Sciences; Schizophrenia Bulletin; The Journal of Neuroscience;

(For journals in Chinese) Chinese Journal of Mental Health; Chinese Journal of Neurology; Chinese Journal of Psychiatry; Chinese Journal of Radiology;

3.4. Grant Review: Natural Science Foundation of China (2005-now), National Science Foundation (USA, 2009), Alzheimer Forschung Initiative (Germany, 2010)

3.5. Steering committee member, “1000 Functional Connectomes Project” (<http://www.nitrc.org>) (2009);

4. GRANTS (Selected):

4.1. Resting-state fMRI: methodology and application to brain disorders (PI, International collaborative project, NSFC, No. 81020108022, RMB 2,000,000, 2011.1-2013.12)

4.2. Computer-aided diagnosis of functional MRI in ADHD (PI, National High Technology Program of China (863), No. 2008AA02Z405, RMB 840,000, 2008.1.-2010.12)

4.3. Early detection of neurodegenerative and psychiatric diseases based on fMRI analysis of spontaneous brain activity (PI, International collaborative project, NSFC, No. 30621130074, RMB 900,000, PI, 2006.1-2009.12)

4.4. Optimization and algorithms of scanning parameters of resting-state fMRI (PI, NSFC, No. 30770594, RMB 330,000, 2008.1-2010.12)

4.5. Resting-state fMRI: methodology and application to brain disorders (PI, fund from Hangzhou Normal University, RMB 3,600,000, 2011.1-2014.12)

5. PUBLICATIONS (peer reviewed journal papers):

Lv Y, Margulies DS, Villringer A, Zang YF. Effects of finger tapping frequency on regional homogeneity of sensorimotor cortex. *PLoS One*. 2013 May 16;8(5):e64115. doi: 10.1371/journal.pone.0064115.

- Ji GJ, Zhang Z, Zhang H, Wang J, Liu DQ, **Zang YF**, Liao W, Lu G. Disrupted causal connectivity in mesial temporal lobe epilepsy. *PLoS One*. 2013 May 16;8(5):e63183. doi: 10.1371/journal.pone.0063183.
- Liao W, Zhang Z, Mantini D, Xu Q, Wang Z, Chen G, Jiao Q, **Zang YF**, Lu G. Relationship between Large-scale Functional and Structural Covariance Networks in Idiopathic Generalized Epilepsy. *Brain Connect*. 2013 Mar 19. [Epub ahead of print]
- Zhu Y, Gao B, Hua J, Liu W, Deng Y, Zhang L, Jiang B, **Zang Y**. Effects of methylphenidate on resting-state brain activity in normal adults: an fMRI study. *Neurosci Bull*. 2013 Feb;29(1):16-27.
- An L, Cao XH, Cao QJ, Sun L, Yang L, Zou QH, Katya R, **Zang YF**, Wang YF. Methylphenidate Normalizes Resting-State Brain Dysfunction in Boys With Attention Deficit Hyperactivity Disorder. *Neuropsychopharmacology*. 2013 Jan 22. doi: 10.1038/npp.2013.27. [Epub ahead of print]
- Wang J, Liu DQ, Zhang H, Zhu WX, Dong ZY, **Zang YF***. Asymmetry of the Dorsal Anterior Cingulate Cortex: Evidences from Multiple Modalities of MRI. *Neuroinformatics*. 2012 Oct 9. DOI: 10.1007/s12021-012-9167-9 [Epub ahead of print]
- Wang DY, Han XJ, Li SF, Liu DQ, Yan CG, Zuo XN, Zhu CZ, He Y, Kiviniemi V, Zang YF. Effects of apolipoprotein e genotype on the off-line memory consolidation. *PLoS One*. 2012;7(12):e51617.
- Abou Elseoud A, Nissilä J, Liettu A, Remes J, Jokelainen J, Takala T, Aunio A, Starck T, Nikkinen J, Koponen H, **Zang YF**, Tervonen O, Timonen M, Kiviniemi V. Altered resting-state activity in seasonal affective disorder. *Hum Brain Mapp*. 2012 Sep 15. doi: 10.1002/hbm.22164. [Epub ahead of print]
- Wu T, Wang C, Wang J, Hallett M, **Zang Y**, Chan P. Preclinical and clinical neural network changes in SCA2 parkinsonism. *Parkinsonism Relat Disord*. 2012 Sep 20. pii: S1353-8020(12)00336-7. doi: 10.1016/j.parkreldis.2012.08.011.
- Yan H, Tian L, Yan J, Sun W, Liu Q, Zhang YB, Li XM, **Zang YF**, Zhang D. Functional and Anatomical Connectivity Abnormalities in Cognitive Division of Anterior Cingulate Cortex in Schizophrenia . *PLoS ONE*. 2012;7 (9), e45659.
- Wang DY, Liu DQ, Li SF, **Zang YF***. Increased local synchronization of resting-state fMRI signal after episodic memory encoding reflects off-line memory consolidation. *Neuroreport*. 2012 Oct 24;23(15):873-8.
- Li Y, Booth JR, Peng D, **Zang Y**, Li J, Yan C, Ding G. Altered Intra- and Inter-Regional Synchronization of Superior Temporal Cortex in Deaf People. *Cereb Cortex*. 2012 Jul 5. doi: 10.1093/cercor/bhs185 [Epub ahead of print]
- Zuo XN, Xu T, Jiang L, Yang Z, Cao XY, He Y, Zang YF, Castellanos FX, Milham MP. Toward reliable characterization of functional homogeneity in the human brain: Preprocessing, scan duration, imaging resolution and computational space. *Neuroimage*. 2012 Oct 17. doi:pii: S1053-8119(12)01020-8. 10.1016/j.neuroimage.2012.10.017
- Dong ZY, Liu DQ, Wang J, Qing Z, Zang ZX, Yan CG, Zang YF. Low-frequency fluctuation in continuous real-time feedback of finger force: a new paradigm for sustained attention. *Neurosci Bull*. 2012 Aug;28(4):456-67.
- Wurina, Zang YF, Zhao SG. Resting-state fMRI studies in epilepsy. *Neurosci Bull*. 2012 Aug;28(4):449-55.

- Zou Q, Ross TJ, Gu H, Geng X, Zuo XN, Hong LE, Gao JH, Stein EA, Zang YF, Yang Y. Intrinsic resting-state activity predicts working memory brain activation and behavioral performance. *Hum Brain Mapp*. 2012 Jun 19. doi: 10.1002/hbm.22136.
- Wang L, Shen H, Tang F, Zang Y, Hu D. Combined structural and resting-state functional MRI analysis of sexual dimorphism in the young adult human brain: An MVPA approach. *Neuroimage*. 2012 Apr 3. [Epub ahead of print]
- Wu T, Wang J, Wang C, Hallett M, Zang Y, Wu X, Chan P. Basal ganglia circuits changes in Parkinson's disease patients. *Neurosci Lett*. 2012 Jul 17. [Epub ahead of print]
- Li S, Zou Q, Li J, Li J, Wang D, Yan C, Dong Q, **Zang YF**. 5-HTTLPR polymorphism impacts task-evoked and resting-state activities of the amygdala in Han Chinese. *PLoS One*. 2012;7(5):e36513. Epub 2012 May 4.
- Sun L, Cao Q, Long X, Sui M, Cao X, Zhu C, Zuo X, An L, Song Y, **Zang Y**, Wang Y. Abnormal functional connectivity between the anterior cingulate and the default mode network in drug-naïve boys with attention deficit hyperactivity disorder. *Psychiatry Res*. 2012 Feb 28;201(2):120-7.
- Wei T, Liang X, He Y, **Zang Y**, Han Z, Caramazza A, Bi Y. Predicting conceptual processing capacity from spontaneous neuronal activity of the left middle temporal gyrus. *J Neurosci*. 2012 Jan 11;32(2):481-9.
- Tian L, Ren J, **Zang Y**. Regional homogeneity of resting state fMRI signals predicts Stop signal task performance. *Neuroimage*. 2011 Dec 10;60(1):539-544.
- Zang ZX, Yan CG, Dong ZY, Huang J, **Zang YF**. Granger causality analysis implementation on MATLAB: A graphic user interface toolkit for fMRI data processing. *J Neurosci Methods*. 2012 Jan 30;203(2):418-26.
- Song XW, Dong ZY, Long XY, Li SF, Zuo XN, Zhu CZ, He Y, Yan CG, **Zang YF**. REST: a toolkit for resting-state functional magnetic resonance imaging data processing. *PLoS ONE* 6(9): e25031. doi:10.1371/journal.pone.0025031.
- Lv SY, Zou QH, Cui JL, Zhao N, Hu J, Long XY, Sun YC, He J, Zhu CZ, He Y, **Zang YF**. Decreased gray matter concentration and local synchronization of spontaneous activity in the motor cortex in Duchenne muscular dystrophy. *AJNR Am J Neuroradiol*. 2011 Dec;32(11):2196-200.
- You H, Wang J, Wang H, **Zang YF**, Zheng FL, Meng CL, Feng F. Altered regional homogeneity in motor cortices in patients with multiple system atrophy. *Neurosci Lett*. 2011 Sep 8;502(1):18-23. Epub 2011 Jul 20.
- Li Q, Sun J, Guo L, Zang Y, Feng Z, Huang X, Yang H, Lv Y, Huang M, Gong Q. Increased fractional anisotropy in white matter of the right frontal region in children with attention-deficit/hyperactivity disorder: a diffusion tensor imaging study. *Neuro Endocrinol Lett*. 2010;31(6):747-53.
- Li Y, Ding G, Booth JR, Huang R, Lv Y, **Zang Y**, He Y, Peng D. Sensitive period for white-matter connectivity of superior temporal cortex in deaf people. *Hum Brain Mapp*. 2011 Mar 9. doi: 10.1002/hbm.21215. [Epub ahead of print]

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- Mankinen K, Long XY, Paakki JJ, Harila M, Rytty S, Tervonen O, Nikkinen J, Starck T, Remes J, Rantala H, **Zang YF**, Kiviniemi V. Alterations in Regional Homogeneity of Baseline Brain Activity in Pediatric Temporal Lobe Epilepsy. *Brain Res*. 2010 Dec 9. [Epub ahead of print]
- Wu T, Long X, Wang L, Hallett M, **Zang Y**, Li K, Chan P. Functional connectivity of cortical motor areas in the resting state in Parkinson's disease. *Hum Brain Mapp*. 2010 Aug 25. [Epub ahead of print]
- Zhang YJ, Lu CM, Biswal BB, **Zang YF**, Peng DL, Zhu CZ. Detecting resting-state functional connectivity in the language system using functional near-infrared spectroscopy. *J Biomed Opt*. 2010 Jul-Aug;15(4):047003.
- Zuo XN, Kelly C, Di Martino A, Mennes M, Margulies DS, Bangaru S, Grzadzinski R, Evans AC, **Zang YF**, Castellanos FX, Milham MP. Growing Together and Growing Apart: Regional and Sex Differences in the Lifespan Developmental Trajectories of Functional Homotopy. *J Neurosci*. 2010 Nov 10;30(45):15034-15043.
- Mennes M, Zuo XN, Kelly C, Di Martino A, **Zang YF**, Biswal B, Castellanos FX, Milham MP. Linking inter-Individual differences in neural activation and behavior to intrinsic brain dynamics. *Neuroimage*. 2010 Oct 23. [Epub ahead of print]
- Zhang T, Wang J, Yang Y, Wu Q, Li B, Chen L, Yue Q, Tang H, Yan C, Lui S, Huang X, Chan RC, **Zang Y**, He Y, Gong Q. Abnormal small-world architecture of top-down control networks in obsessive-compulsive disorder. *J Psychiatry Neurosci*. 2010 Nov 1. doi: 10.1503/jpn.100006. [Epub ahead of print]
- Liu D, Yan C, Ren J, Yao L, Kiviniemi VJ, **Zang Y**. Using coherence to measure regional homogeneity of resting-state fMRI signal. *Front. Syst. Neurosci*. 2010, 4:24. doi:10.3389/fnsys.2010.00024
- Yan C, **Zang Y**. DPARSF: a MATLAB toolbox for "pipeline" data analysis of resting-state fMRI. *Front. Syst. Neurosci*. 2010, 4:13. doi:10.3389/fnsys.2010.00013.
- Zhang H, Zuo XN, Ma SY, **Zang YF**, Milham MP, Zhu CZ. Subject order-independent group ICA (SOI-GICA) for functional MRI data analysis. *Neuroimage*. 2010 Jul 15;51(4):1414-24. Epub 2010 Mar 23.
- Zhang H, Zhang YJ, Lu CM, Ma SY, **Zang YF**, Zhu CZ. Functional connectivity as revealed by independent component analysis of resting-state fNIRS measurements. *Neuroimage*. 2010 Jul 1;51(3):1150-61. Epub 2010 Mar 6.
- Wang L, Yu C, Chen H, Qin W, He Y, Fan F, Zhang Y, Wang M, Li K, **Zang Y**, Woodward TS, Zhu C. Dynamic functional reorganization of the motor execution network after stroke. *Brain*. 2010 Apr;133(Pt 4):1224-38.
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- McMahon K, Monk CS, Mostofsky SH, Nagel BJ, Pekar JJ, Peltier SJ, Petersen SE, Riedl V, Rombouts SA, Rypma B, Schlaggar BL, Schmidt S, Seidler RD, Siegle GJ, Sorg C, Teng GJ, Veijola J, Villringer A, Walter M, Wang L, Weng XC, Whitfield-Gabrieli S, Williamson P, Windischberger C, **Zang YF**, Zhang HY, Castellanos FX, Milham MP. Toward discovery science of human brain function. *Proc Natl Acad Sci U S A*. 2010 Mar 9;107(10):4734-9.
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- Cao Q, Sun L, Gong G, Lv Y, Cao X, Shuai L, Zhu C, **Zang Y**, Wang Y. The macrostructural and microstructural abnormalities of corpus callosum in children with Attention Deficit/Hyperactivity Disorder: A combined morphometric and diffusion tensor MRI study. *Brain Res*. 2010 Jan 15;1310:172-80.
- Cao X, Cao Q, Long X, Sun L, Sui M, Zhu C, Zuo X, **Zang Y**, Wang Y. Abnormal resting-state functional connectivity patterns of the putamen in medication-naïve children with attention deficit hyperactivity disorder. *Brain Res*. 2009 Dec 15;1303:195-206.
- Zou Q, Wu C, Stein EA, **Zang Y**, Yang Y. Static and dynamic characteristics of cerebral blood flow during the resting state. *Neuroimage*. 2009 Nov 15;48(3):515-24.
- Li S, Han Y, Wang D, Yang H, Fan Y, Lv Y, Tang H, Gong Q, **Zang Y**, He Y. Mapping Surface Variability of the Central Sulcus in Musicians. *Cereb Cortex*. 2010 Jan;20(1):25-33.
- Yan H, Zuo XN, Wang D, Wang J, Zhu C, Milham MP, Zhang D, **Zang Y**. Hemispheric asymmetry in cognitive division of anterior cingulate cortex: a resting-state functional connectivity study. *Neuroimage*. 2009 Oct 1;47(4):1579-89.
- Kiviniemi V, Tuomo S, Remes J, Long X, Juha N, Marianne H, Juha V, Irma M, Isohanni M, **Zang Y**, Osmo T. Functional segmentation of the brain cortex using high model order group PICA. *Hum Brain Mapp*. 2009 Dec;30(12):3865-86.
- Yan C, Liu D, He Y, Zou Q, Zhu C, Zuo X, Long X, **Zang Y**. Spontaneous brain activity in the default mode network is sensitive to different resting-state conditions with limited cognitive load. *PLoS ONE*. 2009 May 29;4(5):e5743.
- Zou QH, Long XY, Zuo XN, Yan CG, Zhu CZ, Yang YH, Liu DQ, He Y, **Zang YF**. Functional connectivity between the thalamus and visual cortex under eyes closed and eyes open conditions: a resting-state fMRI study. *Human Brain Mapping*, 2009 Sep;30(9):3066-78.
- Zang ZX, Han ZZ, **Zang YF**. Effects of hand clasping and arm folding on academic performance. *Neural Regeneration Research*. 2008 Aug 3(8):914-7.
- Wang J, Wang L, **Zang Y**, Yang H, Tang H, Gong Q, Chen Z, Zhu C, He Y. Parcellation-dependent small-world brain functional networks: A resting-state fMRI study. *Hum Brain Mapp*. 2009 May;30(5):1511-23.

- Wu T, Long X, **Zang Y**, Wang L, Hallett M, Li K, Chan P. Regional homogeneity changes in patients with Parkinson's disease. *Hum Brain Mapp.* 2009 May;30(5):1502-10.
- Cao Q, **Zang Y**, Zhu C, Cao X, Sun L, Zhou X, Wang Y. Alerting deficits in children with attention deficit/hyperactivity disorder: Event-related fMRI evidence. *Brain Res.* 2008 Jul 11;1219:159-68.
- Zou QH, Zhu CZ, Yang Y, Zuo XN, Long XY, Cao QJ, Wang YF, **Zang YF**. An improved approach to detection of amplitude of low-frequency fluctuation (ALFF) for resting-state fMRI: Fractional ALFF. *J Neurosci Methods.* 2008 Jul 15;172(1):137-41.
- Long XY, Zuo XN, Kiviniemi V, Yang Y, Zou QH, Zhu CZ, Jiang TZ, Yang H, Gong QY, Wang L, Li KC, Xie S, **Zang YF**. Default mode network as revealed with multiple methods for resting-state functional MRI analysis. *J Neurosci Methods.* 2008 Jun 30;171(2):349-55.
- Lv YT, Yang H, Wang DY, Li SY, Han Y, Zhu CZ, He Y, Tang HH, Gong QY, **Zang YF**. Correlations in spontaneous activity and gray matter density between left and right sensorimotor areas of pianists. *Neuroreport.* 2008 Apr 16;19(6):631-4.
- Wang L, Zhu C, He Y, **Zang Y**, Cao Q, Zhang H, Zhong Q, Wang Y. Altered small-world brain functional networks in children with attention-deficit/hyperactivity disorder. *Hum Brain Mapp.* 2009 Feb;30(2):638-49.
- Zhu CZ, **Zang YF**, Cao QJ, Yan CG, He Y, Jiang TZ, Sui MQ, Wang YF. Fisher discriminative analysis of resting-state brain function for attention-deficit/hyperactivity disorder. *Neuroimage.* 2008 Mar 1;40(1):110-20.
- Tian L, Jiang T, Liang M, **Zang Y**, He Y, Sui M, Wang Y. Enhanced resting-state brain activities in ADHD patients: A fMRI study. *Brain Dev.* 2008 May;30(5):342-8.
- Wu T, **Zang Y**, Wang L, Long X, Li K, Chan P. Normal aging decreases regional homogeneity of the motor areas in the resting state. *Neurosci Lett.* 2007 Aug 23;423(3):189-193.
- Wu T, **Zang Y**, Wang L, Long X, Hallett M, Chen Y, Li K, Chan P. Aging influence on functional connectivity of the motor network in the resting state. *Neurosci Lett.* 2007 Jul 18;422(3):164-8.
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- He Y, Wang L, **Zang Y**, Tian L, Zhang X, Li K, Jiang T. Regional coherence changes in the early stages of Alzheimer's disease: A combined structural and resting-state functional MRI study. *Neuroimage.* 2007 Apr 1;35(2):488-500.
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- Cao Q, **Zang Y**, Sun L, Sui M, Long X, Zou Q, Wang Y. Abnormal neural activity in children with attention deficit hyperactivity disorder: a resting-state functional magnetic resonance imaging study. *Neuroreport.* 2006 Jul 17;17(10):1033-6.

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- Lu YL, Jiang TZ, and **Zang YF**, Single-Trial Variable Model for Event-Related fMRI Data Analysis, *IEEE Transactions on Medical Imaging*. 2005, 24:236-245
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- Jiang TZ*, Yong He Y*, **Zang YF*** and Weng XC. Modulation of functional connectivity during the resting state and the motor task. *Human Brain Mapping*, 2004, 22:63–71. (*: Equal contribution)
- Lu YL, Jiang TZ and **Zang YF**, Split-merge based region growing method for fMRI activation detection, *Human Brain Mapping*, 2004, 22(4):271-9.
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- Cui SZ, Li EZ, **Zang YF**, Weng XC, Ivry R, Wang JJ. Both sides of human cerebellum involved in preparation and execution of sequential movements. *NeuroReport* 2000; 11:3849-3853.

6. Invited talks (selected)

- 6.1. Title: Local activity of resting-state fMRI. Invited talk for the Second Biennial International Conference On Resting-State Connectivity. Date and Address: September 17-19, 2010, Milwaukee, Wisconsin

- 6.2. Title: Resting-state fMRI: computations and applications to clinical and cognitive neurosciences. Date and Address: September 14, 2010. National Institute on Drug Abuse, NIH.
- 6.3. Titles: (1) Resting-state fMRI data analysis; (2) Resting-state fMRI: Local abnormality in brain disorders. Date and Address: April 12-13, 2010. Center For Behavioral Brain Sciences, Otto v. Guericke University, Magdeburg.
- 6.4. Title: Resting-state fMRI: computations and applications to clinical and cognitive neurosciences. Date and address: August 21, 2009. Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig (<http://www.cbs.mpg.de/news/calendar/101>)
- 6.5. Title: Episodic memory consolidation, ApoE genotype and resting-state fMRI. (For video at <http://restingstate.stanford.edu/>). Advanced Resting-state fMRI symposium (2009.6.18, Stanford).