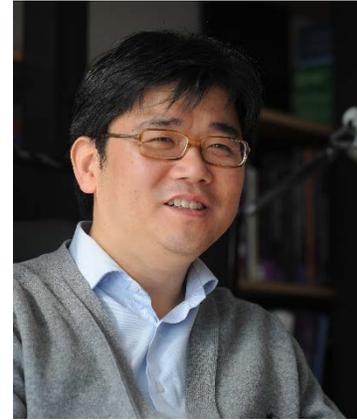


CURRICULUM VITAE

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Present Positions:

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- Director, KI for Health Science and Technology (KIHST)
- Director, Dr.M Smart Mobile Healthcare Center
- Director, Neuro-Vascular Disorder Research Center (NVRC)
- Director, Laboratory for Cognitive Neuroscience and NeuroImaging (cni.kaist.ac.kr)
- Faculty, Department of Neurology, KAIST Pappalardo Clinic
- Adjunct Professor,
Department of Neurology, Sungkyunkwan University, Samsung Medical Center



Research Field:

- Neurophysiology
- Cognitive Neuroscience and Neuropsychology
- Clinical Neurology (degenerative disease, vascular disease)
- Functional Neuroimaging
- Brain mapping and modeling
- Brain network
- Bioengineering (biosignals)

Education:

- Ph.D (in Neurophysiology), Yonsei University, Seoul, Korea, 1997
- Master in Science (MS), Yonsei University, Seoul, Korea, 1993
- MD, Yonsei University College of Medicine, Seoul, Korea, 1991

Professional Career

- Adjunct professor, Department of Neurology, Sungkyunkwan University Samsung Medical Center, September 1, 2005 – current
- Visiting Professor, Department of Bio and Brain Engineering, September 1, 2005 – May 31, 2007
- Research and Clinical Fellow, University of Florida, August 1, 2003 – August 31, 2005
- Research and Clinical Fellow, Samsung Medical Center, Sungkyunkwan University, Seoul, Korea, March 1, 2002 – July 31, 2003
- Neurology Residency, Severance Hospital, Yonsei Medical Center, Yonsei University College of Medicine, Seoul, Korea, March 1, 1998 - February 28, 2002
- Internship, Severance Hospital, Yonsei Medical Center, Yonsei University College of Medicine, Seoul, Korea, May 1, 1997 – February 28, 1998
- Researcher, National Institute of Toxicological Research, Korea Food and Drug Administration, April 28, 1994 - April 25, 1997
- Research and Teaching Assistant, Department of Physiology, Yonsei University College of Medicine, Seoul, Korea, March 1, 1991 – February 28, 1994

Degree and Qualification:

- Board of Neurology (No. 780), granted by Ministry of Health and Welfare, Korea, 2002
- ECFMG Certification (No.0-469-234-9), 1998
- Ph.D, conferred by Yonsei University, Seoul, Korea, 1997
- MS, conferred by Yonsei University, Seoul, Korea, 1993
- MD (No. 43694), granted by Ministry of Health and Welfare, Korea, 1991

Society Memberships and Services:

- Society for Neuroscience, member
- Organization for Human Brain Mapping, member
- Institute of Complex Medical Engineering, councilor
- Korean Neurological Association, Former Academic Committee
- Korean Dementia Association, Academic Committee
- Korean Human Brain Mapping Society, Director of Planning Committee
- The Korean Society for Cognitive Science, Organization Committee
- Korean Society of Medical and Biological Engineering, Academic Committee
- The Korean Society for Brain and Neural Science, Member
- Korean Society for Clinical Neurophysiology, Former Academic Committee
- IBEC 2015, Scientific Program Committee
- Biomag 2016, Organization Committee
- The 10th ICME International Conference on Complex Medical Engineering (ICME 2016), Organizing Committee Co-Chair
- OHBM Korea Chapter treasury
- OHBM 2018, LOC member

Academic and Public Services

- Journal of Alzheimer's disease, former Associate Editor
- World Journal of Radiology, Editorial Board
- Neuroscience and Biomedical Engineering, Editorial Board
- Korea Food and Drug Administration, Consultant on Biomedical Devices

- National Research Foundation of Korea, Review Board
- Institute of Civil-military Technology Cooperation, former Consultant
- Member, Ministry of Health and Welfare National Dementia Research Committee
- Member, Ministry of Science, Technology and ICT, National Brain Research Working Committee
- Member, Medical Instrument Safety Committee, KFDA

Awards

- Siemens Academic Excellence Award conferred by Korean Society of Human Brain Mapping, 2016
- Research Award conferred by Korea Clinical Neurophysiology Society, 2014
- President of Korea Medical Association Award, 1991

Publications:

International Journal

1. Ghahremani M, Yoo J, Chung SJ, Ye JC*, Jeong Y*. Alteration of local and global functional connectivity of resting state networks in Parkinson's disease. *J Mov Disord* (accepted)
2. Choung OH, Lee SW*, Jeong Y*. Exploring Feature Dimensions to Learn a New Policy in an Uninformed Reinforcement Learning Task. *Sci Rep* (accepted)
3. Kang M, Lee YB, Gohel B, Yoo K, Lee P, Chung J, Jeong Y*. Momentary level of slow default mode network activity is associated with distinct propagation and connectivity patterns in the anesthetized mouse cortex. *J Neurophysiol* (E-pub) doi: 10.1152/jn.00163.2017.
4. Lee ES, Yoon JH, Choi JY, Adndika, F, Lee T, Jeong Y*. A Mouse Model of Subcortical Vascular Dementia Reflecting Degeneration of Cerebral White Matter and Microcirculation. *J Cereb Blood Flow Metab.* (In press) doi: 10.1177/0271678X17736963.
5. Chung J, Yoo K, Lee P, Kim CM, Rho JH, Park JE, Kim SJ, Seo SW, Shin JH, Seong JK*, Jeong Y*. Normalization of Cortical Thickness Measurements across Different T1 Magnetic Resonance Imaging Protocols by Novel W-Score Standardization. *NeuroImage* 2017 Oct 1. 224-236 doi: 0.1016/j.neuroimage.2017.07.053
6. Lee H, Jung S, Lee P, Jeong Y*. Altered intrinsic functional connectivity in the latent period of epileptogenesis in a temporal lobe epilepsy model. *Exp Neurol.* 2017 Jul 17. pii: S0014-4886(17)30181-4. doi: 10.1016/j.expneurol.2017.07.007.
7. Gohel B, Lee P, Kim M-Y, Kim K, Jeong Y*. MEG based functional connectivity: Application of ICA to alleviate signal leakage. *IRBM*, 2017 June:38(3):127-137. doi: 10.1016/j.irbm.2017.03.002
8. Sohn WS, Lee TY, Yoo K, Yun J-Y, Hur J-W, Yoon YB, Seo SW, Na DL, Jeong Y*, Kwon JS*. Node Identification using Inter-Regional Correlation Analysis for Mapping Detailed Connections in Resting State Networks. *Front Neurosci*, 2017, 11:00238 doi: 10.3389/fnins.2017.00238

9. Choi JY, Jeong Y*. Elevated emotional contagion in a mouse model of Alzheimer's disease is associated with increased synchronization in the insula and amygdala. *Sci Rep*. 2017 April 07;7:46262. doi:10.1038/srep46262
10. Yoon JH, Lee ES, Jeong Y*. In vivo Imaging of the Cerebral Endothelial Glycocalyx in Mice. *J Vasc Res* 2017 April 01;54:59-67. Doi: 10.1159/000457799.
11. Lee P, Ryoo H, Park J*, Jeong Y*. Morphological and Microstructural Changes of the Hippocampus in Early MCI: ADNI study. *J Clin Neurol* 2017 April;13(2):144-154. doi:10.3988/jcn.2017.13.2.144
12. Park M, Jung H, Jeong Y, Jeong KH*. Plasmonic Schirmer Strip for Human Tear-Based Gouty Arthritis Diagnosis Using Surface-Enhanced Raman Scattering. *ACS Nano*. 2017 Jan 24;11(1):438-443. doi: 10.1021/acsnano.6b06196.
13. Yoo K, Lee P, Chung MK, Sohn WS, Chung SJ, Na DL, Ju D, Jeong Y*. Degree-based statistic and center persistency for brain connectivity analysis. *Hum Brain Mapp*. 2017 Jan;38(1):165-181. doi: 10.1002/hbm.23352.
14. Yu H, Lee P, Jo YJ, Lee KR, Tuchin V, Jeong Y, Park YK*. Collaborative effects of wavefront shaping and optical clearing agent in optical coherence tomography. *J Biomed Opt*. 21(12), 121510 (Oct 28, 2016). doi:10.1117/1.JBO.21.12.121510
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22. Lee BH, Lim TH, Yoon YW, Yenari MA, Jeong Y. Post-injury neuroplasticity in central neural networks. (Editorial) *Neural Plasticity*. vol. 2015, Article ID 857085, 2 pages, 2015. doi:10.1155/2015/857085
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47. Chung J, Yoo KS, Kim EJ, Na DL, Jeong Y. Glucose metabolic brain networks in early onset versus late onset Alzheimer's disease. Presented at Organization for Human Brain Mapping's 2015 Annual Meeting, Honolulu, USA, June 17, 2015
48. Yoo KS, Ju D, Sohn WS, Jeong Y. Degree-based statistics (DBS): a cluster-wise correction for multiple testing of connectivity matrix. Presented at Organization for Human Brain Mapping's 2015 Annual Meeting, Honolulu, USA, June 16, 2015
49. Kang M, Lee YB, Gohel B, Jeong Y. Graph theoretical analysis of large-scale voltage sensitive dye imaging data in vivo. Presented at the 2015 meeting on Wiring the Brain, Cold Spring Harbor, USA, Mar 25, 2015
50. Jeong Y., Kim J, Kang M. In vivo optical imaging for neuronal dynamics and cerebral hemodynamics study in brain diseases. Presented in the 2nd SPIE's International Conference on Nano-Bio Sensing, Imaging & Spectroscopy (NBSIS 2015), Jeju, Korea, Feb. 27, 2015 (invited talk)
51. Yoon HJ, Lee ES, Kang M, Jeong Y., Park JH. In vivo multi-photon luminescence imaging of blood-brain barrier integrity in a mouse model of stroke using gold nanoparticles. Presented at International Biomedical Engineering Conference 2014. Gwangju, Korea, Nov.22, 2014
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53. Yoo K, Sohn WS, Ju D, Jeong Y. Degree-based statistics (DBS) with hub-detection" a correction method for mass-univariate hypothesis testing of the brain connectivity matrix. Presented at 2014 Annual Meeting of Korean Society for Human Brain Mapping, Seoul, Korea, Nov 7, 2014 (Poster number: Disorders of Nervous System section 4) (selected as a best poster)
54. Chung J, Yoo K, Kim EJ, Na DL, Jeong Y. Glucose metabolic brain networks in early onset versus late onset Alzheimer's disease. Presented at 2014 Annual Meeting of Korean Society for Human Brain Mapping, Seoul, Korea, Nov 7, 2014 (Poster number: Disorders of Nervous System section 14) (selected as a best poster)

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56. Lee ES, Yoo K, Lee YB, Chung J, Lim JE, Yoon B, Jeong Y. Disruption of default mode network connectivity occurs in the late-stage but not in the early-stage of MCI: Results from ADNI. Presented at 2014 Annual Fall Conference of Korean Neurological Association, Seoul, Korea Oct.31, 2014. (Abst, I-2-2, p4)
57. Lee E-S, Yoo K, Jeong Y. The ADNI. Progressive Deterioration of Default-mode Functional Connectivity within Mild Cognitive Impairment. Presented at the 20th Annual Meeting of the Organization for Human Brain Mapping, Hamburg, Germany, June 8-12, 2014 (Poster number, 1118)
58. Sohn W, Lee Y-B, Yoo K, Na DL, Jeong Y. The case for personal connectomics: Alzheimer's disease classification using subject specific ROIs. Presented at the 20th Annual Meeting of the Organization for Human Brain Mapping, Hamburg, Germany, June 8-12, 2014 (Poster number, 1775)
59. Ghahremani M, Jeong Y, Ye JC. Functional Connectivity of the Default Mode Network in Parkinson's Disease with Cognitive Impairment. Presented at the 20th Annual Meeting of the Organization for Human Brain Mapping, Hamburg, Germany, June 8-12, 2014 (Poster number, 1843)
60. Jeong Y. Resting brain networks and their implications. Present at 2014 the 18th Spring Conference of Korean Clinical Neurophysiology Society. Seoul, Korea, March 28-29, 2014 (Plenary talk)
61. Yoo K, Choung O, Chung SJ, Lee Y-B, You S, Kim M-J, Jeong Y. Intrinsic functional connectivity with Parkinson rating in relevance to asymmetric motor symptoms. Presented at the 20th Annual Meeting of the Organization for Human Brain Mapping, Hamburg, Germany, June 8-12, 2014 (Poster number, 3269)
62. Jeong Y. Subject-specific ROIs of Default-mode Network for Alzheimer's Disease Classification. Present at the 2nd International Congress on Magnetic Resonance Imaging (ICMRI 2014) and the 19th Annual Scientific Meeting of KSMRM (KSMRM 2014). Seoul, Korea, March 28-29, 2014 (Invited talk)
63. Yoon HJ, Lee E, Kang M, Jeong Y, Park JH. In Vivo Multi-Photon Luminescence Imaging of Gold Nanoparticles to Visualize Morphology and Permeability of Mouse Brain Vasculature. ASME 2014 3rd Global Congress on NanoEngineering for Medicine and Biology
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66. Yoo K, Chung SJ, Choung O, Lee YB, You S, Kim MJ, Jeong Y. Neural connectivity substrates of cognitive and motor dysfunction in Parkinson's disease. Presented at 2013 Annual Meeting of Korean Society for Human Brain Mapping, Seoul, Korea, Nov 1, 2013 (Poster number 4)
67. Kang M, Gohel B, Lee YB, Jeong Y. Mapping of intrinsic functional connectivity dynamics using large-scale voltage sensitive dye imaging in anesthetized mice. Presented at 2013 Annual Meeting of Korean Society for Human Brain Mapping, Seoul, Korea, Nov 1, 2013 (Poster number 28) (selected as a best poster)
68. Sohn, WS, Yoo K, Jeong Y. Intrinsic connectivity of the default mode network is affected by ROI selection. Presented at 2013 Annual Meeting of Korean Society for Human Brain Mapping, Seoul, Korea, Nov 1, 2013 (Poster number 34)
69. Gohel B, Jeong Y. Sensory modality specific EEG dynamics during continuous counting task. Presented at 2013 Annual Meeting of Korean Society for Human Brain Mapping, Seoul, Korea, Nov 1, 2013 (Poster number 41)
70. Lee J, Kim Y, Jeong Y, Na DL, Lee K-H, Lee D. Pathway-Based Classification of Brain Activities for Alzheimer's Disease Analysis. ACM 7th international workshop on data and text mining in biomedical informatics in conjunction with CIKMK, San Francisco, USA, Nov. 1, 2013
71. Kang M, Gohel B, Lee YB, Jeong Y. Mapping of intrinsic functional connectivity dynamics using large-scale voltage sensitive dye imaging in anesthetized mice. Presented at 16th Annual Meeting of the Korean Society for Brain and Neural Science, Seoul, Korea, Sep 25-26, 2013 (Poster number H-10). *Exp Neurobiol.* 22(2);Supple 2013 p165.(selected as a best poster)
72. Yoo K, Chung SJ, You S, Kim MJ, Sohn WS, Lee YB, Jeong Y. Intrinsic functional connectivity of motor network and laterality of motor symptoms in PD. Presented at the 19th Annual Meeting of the Organization for Human Brain Mapping, Seattle, WA, USA, June 16-20. 2013 (Poster number, MT1205)
73. Lee YB, Yoo K, Sohn WS, Jeong Y. Classification of resting fMRI of Alzheimer's disease using multivariate pattern analysis with cluster. Presented at the 19th Annual Meeting of the Organization for Human Brain Mapping, Seattle, WA, USA, June 16-20. 2013 (Poster number, MT1638)
74. Sohn WS, Yoo K, Jeong Y. Localized independent component analysis for mapping functional sub-networks. Presented at the 19th Annual Meeting of the Organization for Human Brain Mapping, Seattle, WA, USA, June 16-20. 2013 (Poster number, MT 2023)
75. Sohn WS, Yoo K, Jeong Y. Methods for ROI selection affects measured intrinsic connectivity of resting state network. Presented at the 19th Annual Meeting of the

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76. Kim J, Jeong Y. Augmentation of the sensory-evoked hemodynamic response in an early Alzheimer's disease model mouse. Presented at XXVIth International Symposium on cerebral blood flow, metabolism and function & XIth International Conference on Quantification of brain function with PET, Shanghai, China, May 23, 2013 (Abst, Thursday 51, p116)
77. Yoo K, Kim H, Na DL, Jeong J, Jeong Y. Dynamics of the network properties with Progression of Alzheimer's Disease using resting state fMRI. Presented at 2012 Annual Fall Conference of Korean Neurological Association, Seoul, Korea Nov. 1, 2012. (Abst, P-I-88, p63)
78. Noh HJ, Seo SW, Park JE, Jeong Y, Kim GH, Noh Y, Cho H, Kim HJ, Yoon CW, Ye BS, Na DL. Blood viscosity in subcortical vascular mild cognitive impairments with versus without amyloid burden. Presented at 2012 Annual Fall Conference of Korean Neurological Association, Seoul, Korea Nov. 1, 2012. (Abst, P-I-106, p69)
79. Sohn WS, Sailamul P, Kang JK, Jeong Y. Localized Independent Component Analysis of fMRI for identifying Epileptic Focus. Presented at 2012 Annual Fall Conference of Korean Neurological Association, Seoul, Korea Nov. 3, 2012. (Abst, P-II-141, p183)
80. Lee E, Lee JE, Yoo K, Lee PH, Jeong Y, Sohn YH, Kang SY. Neural substrates of sequence effect in Parkinson's disease. Presented at 2012 Annual Fall Conference of Korean Neurological Association, Seoul, Korea Nov. 3, 2012. (Abst, P-II-194, p200)
81. Gohel B, Jeong Y. Frequency-morphological analysis of EEG waveform during seizure onset. Presented at 2012 Annual Fall Conference of Korean Neurological Association, Seoul, Korea Nov. 3, 2012. (Abst, P-II-284, p229)
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83. Yoo K, Kim H, Na DL, Seo SW, Jeong J, Jeong Y. Reorganization of the Brain Network with Progression of Alzheimer's Disease using resting state fMRI. Presented at 2012 Annual Fall Conference of Korean Society for Human Brain Mapping, Seoul, Korea Nov. 2, 2012.
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92. Sohn WS, Yoo KS, Jeong Y. Localized independent component analysis (LICA) for mapping motor network. Presented at the 18th Annual Meeting of the Organization for Human Brain Mapping (7363 MT), Beijing, China, June 10-14, 2012
93. Yoo KS, Sohn WS, Jeong Y. Experience-dependent changes in intrinsic functional connectivity: Tool-use and supramarginal gyrus. Presented at the 18th Annual Meeting of the Organization for Human Brain Mapping (874 WTh), Beijing, China, June 10-14, 2012
94. Gohel B, Jeong Y. Analyze empirical morphometric characteristics of EEG waveform in epilepsy. Presented at The Korean Epilepsy Congress 2012 (OP4-2), Incheon, Korea June 7-9.
95. Sohn WS, Sailamul P, Kang JK, Jeong Y. Localized independent component analysis for identifying epileptic focus. Presented at The Korean Epilepsy Congress 2012 (PO-40), Incheon, Korea June 7-9. (Selected as a Best Poster Award)
96. Suh M, Na DL, Seo SW, Kim H, Jeong Y. Neuroanatomical correlates of dysphagia in patients with subcortical vascular mild cognitive impairment and subcortical vascular dementia. Program No. 243.02. 2011 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2011. Online.
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101. Yoo KS, Sohn WS, Jeong Y. Tool-use practice-induced changes in intrinsic functional connectivity of parietal lobe. Presented at 2011 Annual Fall Conference of Korean Society for Human Brain Mapping, Seoul, Korea Nov. 4, 2011.
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105. Kim J, Chang S, Jo Y, Jeong Y. Augmented hemodynamic response in early Alzheimer's disease model mice. Exp Neurobiol. 2012 September;20(2 Supple): 139.
106. Chang S, Kim J, Jeong Y. The effect of anesthetics on low-frequency oscillation of blood in the resting state brain. Exp Neurobiol. 2012 September;20(2 Supple): 169.
107. Sohn WS, Yoo K, Jeong Y. Establishing Methodology for Resting State ROI Analysis to Distinguish Task Specific Motor Networks. Presented at 17th Annual Meeting of the Organization for Human Brain Mapping, Quebec City, Canada June 26-30, 2011.
108. Jeong Y. Network approach of the brain and neurological disease. J Korean Neurol Assoc. 2011 April;29 (Suppl. 1):13. (Invited talk)
109. Jeong Y. Neurovascular coupling and its dysfunction in subcortical vascular dementia. Presented at 2011 Spring Conference of Korean Dementia Assoc. April 1, 2011 (Invited talk)
110. Jeong Y. In vivo imaging using intravital and two-photon microscopy for neurovascular coupling study. Presented at 2011 Spring meeting of Korean Society of Molecular Imaging. April 30, 2011 (Invited talk)
111. Sohn WS, Yoo K, Na DL, Jeong Y. Changes in Hippocampal Network in amnesic Mild Cognitive Impairment and Alzheimer's disease. The 14th spring meeting of Korean Society

- of Clinical Neurophysiology, Seoul, Korea April 8-9, 2011. J Korean Society of Clinical Neurophysiology 13(1 suppl):57, 2011 (Selected as excellent research award)
112. Yoo K, Sohn WS, Jeong Y. Training-induced changes in resting state sensory-motor network. The 14th spring meeting of Korean Society of Clinical Neurophysiology, Seoul, Korea April 8-9, 2011. J Korean Society of Clinical Neurophysiology 13(1 suppl):80-81, 2011
 113. Sohn WS, Yoo K, Na DL, Jeong Y. Changes of Hippocampal Networks in Patients with Mild Cognitive Impairment and Alzheimer's disease. Presented at 16th Annual Meeting of the Organization for Human Brain Mapping, Barcelona, Spain June 6-10, 2010
 114. Sohn WS, Yoo K, Na DL, Jeong Y. Changes of resting state motor networks according to seeding regions and their relationship with task activated fMRI. Presented at 16th Annual Meeting of the Organization for Human Brain Mapping, Barcelona, Spain June 6-10, 2010.
 115. Tak S, Yoon SJ, Jeong Y, Ye JC. Quantitative Analysis of Subcortical Vascular Cognitive Impairment using Simultaneous NIRS and fMRI. Presented at 16th Annual Meeting of the Organization for Human Brain Mapping, Barcelona, Spain June 6-10, 2010.
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 117. Sohn W, Jeong Y. Differences in Left and Right Hippocampal Networks with Mild Cognitive Impairment and Alzheimer's disease. Presented at 2010 Spring Conference of Korean Dementia Assoc. April 3, 2010
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 119. Park SG, Oh YJ, Jang H, Kim J, Min DH, Jeong Y, Jeong KH. Neurochemical Detection through Biocompatible Surface Enhanced Raman Scattering Biopatch. Presented in 2009 Annual Fall Meeting of the Korean Biochip Society. Seoul, Oct. 8~9, 2009.
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Other Activities

1. Chair. KAIST Workshop on Neuroimaging and Brain Mapping. Dec. 3 2010 KAIST, Daejeon, Korea
2. Organization and Scientific Committee. KAIST-NTU-Technion Tripartite Workshop on Biomedicine. Sep. 7 2016 KAIST, Daejeon, Korea