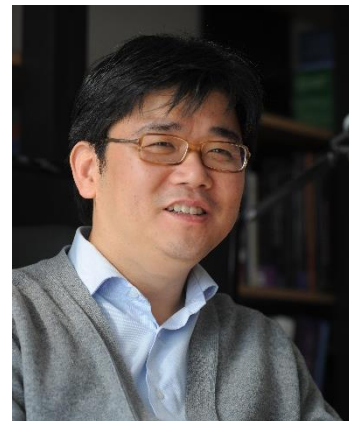


## CURRICULUM VITAE

Yong Jeong, MD, Ph.D

### Present Positions:

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- Director, KI for Health Science and Technology (KIHST)
- Director, Laboratory for Cognitive Neuroscience and NeuroImaging ([ibrain.kaist.ac.kr](http://ibrain.kaist.ac.kr))
- Director, LG Electronics-KAIST Digital Healthcare Center
- Director, Dr.M Smart Mobile Healthcare Center
- Director, Future Smart Home Research Center (FuSH)
- Faculty, Department of Neurology, KAIST Pappalardo Clinic



### Research Field:

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

### Education:

- Ph.D (in Neurophysiology), Yonsei University, Seoul, Korea, 1997
- MS (in Neurophysiology), 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

- 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
- MD (No. 43694), granted by Ministry of Health and Welfare, Korea, 1991

**Society Memberships and Services:**

- International
  - Society for Neuroscience (SfN), member
  - Organization for Human Brain Mapping (OHBM), member
  - Institute of Complex Medical Engineering, Director
  - IBEC 2015, Scientific Program Committee
  - Biomag 2016, Organization Committee
  - The 10th ICME International Conference on Complex Medical Engineering (ICME 2016), Organizing Committee
  - The 2019 International Conference of Korean Dementia Association (IC-KDA 2019), Academic advisory committee
  - 2021 Organization for Human Brain Mapping (OHBM) annual meeting, Local Organization Co-chair
- Domestic
  - Korean Human Brain Mapping Society (KHBM), Current Board of Director, Former chair of international relation, general affairs committee, academic and strategy committee
  - Korean Dementia Association, Board of Director
  - The Korean Society for Neurodegenerative Disease, Chair of Planning, Former chair of Academic committee
  - Korean Society of Medical and Biological Engineering, former Academic committee
  - The Korean Society for Brain and Neural Science, member
  - Korean Neurological Association, member, former Academic committee
  - The Korean Society for Cognitive Science, former Organization committee
  - Korean Society for Clinical Neurophysiology, former academic committee
  - Korean Brain Society, former Chair of Planning Committee

**Academic and Public Services**

- Journal of Alzheimer's disease, former Associate Editor
- Experimental Neurobiology, Associate Editor
- Journal of Clinical Neurology, Associate Editor

- Yonsei Medical Journal, Editorial board
- Journal of Biomedical Engineering and Neuroscience, Editorial board
- Korea National Dementia Research Center, Steering Committee
- Organization of Human Brain Mapping, OHBM 2021 Local Organization Committee Chair
- Ministry of Health and Welfare, National Dementia Research Committee, member
- Ministry of Science, Technology and ICT, National Brain Research Working Committee, member
- Korea Food and Drug Administration, former Consultant on Biomedical Devices
- National Research Foundation of Korea, former Review Board
- Institute of Civil-military Technology Cooperation, former Consultant

### **Awards**

- Technology Innovation Awards, College of Engineering, KAIST, 2021
- Convergence Research Awards, KAIST, 2020
- Best lecturer award, Department of Bio and Brain Engineering, KAIST, 2019
- 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:**

#### *Preprinting*

1. Yoon JH, Shin P, Joo J, Kim GS, Oh WY\*, Jeong Y\*. Increased capillary stalling is associated with endothelial glycocalyx loss in subcortical vascular dementia. bioRxiv 2020.04.08.031187; doi: <https://doi.org/10.1101/2020.04.08.031187>
2. Byun J, Jeong Y\*. Graph neural network based heterogeneous propagation scheme for classifying Alzheimer's disease. bioRxiv 2021.01.21.427712; doi: <https://doi.org/10.1101/2021.01.21.427712>

#### *International Journal*

### **2022**

1. Chung SJ, Kim YJ, Jung JH, Lee HS, Ye BS, Sohn YH, Jeong Y\*, Lee PH\*. Association between white matter connectivity and early dementia in patients with Parkinson's disease. Neurology (accepted)
2. Yoon JH, Shin P, Joo JY, Kim G, Oh WY, Jeong Y\*. Increased capillary stalling is associated with endothelial glycocalyx loss in subcortical vascular dementia. J Cereb Blood Flow Metab. (in press)
3. Lee DH, Seo SW, Rho JH, Oh M, Oh JS, Oh SJ, Kim JS, Jeong Y\*. Effect of Cognitive Reserve in Alzheimer's disease and cognitively unimpaired individuals. Front Aging Neurosci 2022 Feb;13:784504 doi:10.3389/fnagi.2021.784054
4. Lee J, Kim JG, Hong S, Kim YS, Ahn S, Kim R, Chun H, Park KD, Jeong Y, Kim DE, Lee CJ, Ku T, Kim P\*. Longitudinal intravital imaging of cerebral microinfarction reveals a

dynamic astrocyte reaction leading to glial scar formation. *Glia* 2022 Jan;1-14 doi: 10.1002/glia.24151

5. Seo Y, Bang S, Son J, Kim D, Jeong Y, Kim P, Yang J, Eom JH, Choi N, Kim HN\*. Brain physiome: A concept bridging in vitro 3D brain models and in silico models for predicting drug toxicity in the brain. *Bioact Mat*. doi.org/10.1016/j.bioactmat.2021.11.009 (in press)

## 2021

6. Yang H, Jeong Y\*. Correlation between Alteration of Sharp-wave Ripple Coupled Cortical Oscillation and Long-term Memory deficit in Alzheimer's Disease Models Mice. *Exp Neurol*. 2021 Dec;30(6):430-440. doi: 10.5607/en21046
7. Jung JH, Kim YJ, Chung SJ, Yoo HS, Lee YH, Baik K, Jeong SH, Lee YG, Lee HS, Ye BS, Sohn YH, Jeong Y\*, Lee PH\*. White matter connectivity networks predict levodopa-induced dyskinesia in Parkinson's disease. *J Neurol*. 2021 Nov 11. doi: 10.1007/s00415-021-10883-1
8. Kim GS, Lee H, Jeong Y\*. Altered Dorsal Cortical Functional Connectivity After Post-weaning Social Isolation and Resocialization in Mice. *Neuroimage* 2021. Dec 15; 245:118740. doi: 10.1016/j.neuroimage.2021.118740
9. Kwon YH, Yoo K\*, Nguyen H, Jeong Y\*, Chun MM\*. Predicting multilingual effects on executive function and individual connectomes in children: an ABCD study. *Proc Natl Acad Sci U S A*. 2021 Dec 7; 118(49):e2110811118. doi.org/10.1073/pnas.2110811118.
10. Song HY, Shin DW, Jung SM, Jeong Y, Jeong B, Park CS\*. Feasibility study on transcutaneous auricular vagus nerve stimulation using millimeter waves. *Biomed Phys Eng Express*. 2021 Oct 13;7(6) doi: 10.1088/2057-1976/ac2c54.
11. Kim S, Lee P, Oh KT, Byun MS, Yi D, Lee JH, Kim YK, Ye BS, Yun MJ, Lee DY, Jeong Y\*; Alzheimer's Disease Neuroimaging Initiative; KBASE Research Group. Deep learning-based amyloid PET positivity classification model in the Alzheimer's disease continuum by using 2-[18F]FDG PET. *EJNMMI Res*. 2021 Jun 10;11(1):56. doi: 10.1186/s13550-021-00798-3.
12. Chun S, Lim JS, Yoo Y, Choi Y, Jung SJ, Jang D, Lee G, Song KI, Nam KS, Youn I, Son D, Pang C, Jeong Y, Jung H, Kim YJ, Choi BD, Kim J, Kim SP, Park W, Park S\*. An Artificial Neural Tactile Sensing System. *Nat Electron* 2021 June 4;4:429–438. <https://doi.org/10.1038/s41928-021-00585-x>
13. Andika FR, Yoon JH, Kim GS, Jeong Y\*. Intermittent Fasting Alleviates Cognitive Impairments and Hippocampal Neuronal Loss but Enhances Astrocytosis in Mice with Subcortical Vascular Dementia. *J Nutr*. 2021 Mar 11;151(3):722-730. doi: 10.1093/jn/nxaa384.
14. Kim HR, Lee T, Choi JK, Jeong Y\*. Alzheimer's Disease Neuroimaging Initiative. Polymorphism in the MAGI2 Gene Modifies the Effect of Amyloid  $\beta$  on Neurodegeneration.

Alzheimer Dis Assoc Disord. 2021 Apr-Jun 01;35(2):114-120. doi: 10.1097/WAD.0000000000000422.

15. Lee W, Kang BH, Yang H, Park M, Kwak JH, Chung T, Jeong Y, Kim BK, Jeong KH. Spread spectrum SERS allows label-free detection of attomolar neurotransmitters. *Nat Commun*. 2021 Jan 8;12(1):159. doi: 10.1038/s41467-020-20413-8.

## 2020

16. Kim SH, Ahn JH, Yang H, Lee P, Koh GY, Jeong Y\*. Cerebral amyloid angiopathy aggravates perivascular clearance impairment in an Alzheimer's disease mouse model. *Acta Neuropathol Commun*. 2020 Nov 5;8(1):181. doi: 10.1186/s40478-020-01042-0
17. Lee P, Kim HR, Jeong Y\*. Alzheimer's Disease Neuroimaging Initiative. Detection of gray matter microstructural changes in Alzheimer's disease continuum using fiber orientation. *BMC Neurol*. 2020;20:362. doi:10.1186/s12883-020-01939-2
18. Shin P, Yoon JH, Jeong Y\*, Oh WY\*. High-speed optical coherence tomography angiography for the measurement of stimulus-induced retrograde vasodilation of cerebral pial arteries in awake mice. *Neurophotonics*. 2020 Sep;7(3):030502. doi: 10.1117/1.NPh.7.3.030502
19. Park CY, Cha N, Kang S, Kim A, Khandoker A, Hadjileontiadis L, Oh A, Jeong Y, Lee U. K-EmoCon, a multimodal sensor dataset for continuous emotion recognition in naturalistic conversations. *Scientific Data*. 2020 7:293. doi: 10.1038/s41597-020-00630-y
20. Kim HR, Lee T, Choi JK, Jeong Y\*; Alzheimer's Disease Neuroimaging Initiative. Genetic variants beyond amyloid and tau associated with cognitive decline: A cohort study. *Neurology*. 2020 Oct 27;95(17):e2366-e2377. doi: 10.1212/WNL.0000000000010724.
21. Chung SJ, Kim HR, Jung JH, Lee PH, Jeong Y\*, Sohn YH\*. Identifying the Functional Brain Network of Motor Reserve in Early Parkinson's Disease. *Mov Disord*. 2020;35(4):577-586. doi:10.1002/mds.28012

## 2019

22. Park M, Chung J, Kim JK, Jeong Y\*, Moon WJ\*. Altered Functional Brain Networks in Patients with Traumatic Anosmia: Resting-State Functional MRI Based on Graph Theoretical Analysis. *Korean J Radiol*. 2019 Nov;20(11):1536-1545. doi:10.3348/kjr.2019.0104.
23. Ahn JH, Cho H, Kim JH, Kim SH, Ham JS, Park I, Suh SH, Hong SP, Song JH, Hong YK, Jeong Y, Park SH\*, Koh GY\*. Meningeal lymphatic vessels at the skull base drain cerebrospinal fluid. *Nature*. 2019 Aug;572(7767):62-66. doi:10.1038/s41586-019-1419-5.

24. Lee YB, Yoo K, Roh JH, Moon WJ, Jeong Y\*. Brain-State Extraction Algorithm Based on the State Transition (BEST): A Dynamic Functional Brain Network Analysis in fMRI Study. *Brain Topogr.* 2019 Sep;32(5):897-913. doi:10.1007/s10548-019-00719-7.
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26. Kim DY, Hwang K, Ahn J, Seo YH, Kim JB, Lee S, Yoon JH, Kong E, Jeong Y, Jon S, Kim P, Jeong KH\*. Lissajous Scanning Two-photon Endomicroscope for in vivo Tissue Imaging. *Sci Rep.* 2019 March 05:9:3560. <https://doi.org/10.1038/s41598-019-38762-w>
27. 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.* 2019 Jan;39(1):44-57. doi: 10.1177/0271678X17736963.
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## 2018

29. Lee DH, Lee P, Seo SW, Roh JH, Oh M, Oh JS, Oh SJ, Kim JS, Jeong Y\*. Neural substrates of cognitive reserve in Alzheimer's disease spectrum and normal aging. *Neuroimage.* 2018 Nov 29;186:690-702. doi: 10.1016/j.neuroimage.2018.11.053.
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35. Choung OH, Lee SW\*, Jeong Y\*. Exploring Feature Dimensions to Learn a New Policy in an Uninformed Reinforcement Learning Task. *Sci Rep*. 2017 Dec 15;7:17676. doi:10.1038/s41598-017-17687-2
36. 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
37. 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.
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41. 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.
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43. 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.
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45. 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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47. Chung J, Yoo KS, Kim EJ, Na DL, Jeong Y\*. Glucose Metabolic Brain Networks in Early-Onset vs. Late-Onset Alzheimer's Disease. *Front. Aging Neurosci.*, 30 June 2016 8:00159 doi: 10.3389/fnagi.2016.00159
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53. 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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#### **Presentation and Exhibition:**

1. Byun J, Jeong Y. Graph Neural Network Approach for Classification of Alzheimer's Disease using resting-state fMRI. Presented in ASMRM & ICMRI 2020, Virtual, Nov. 2-3, 2020 (Poster. 2020\_KA-057). \*Best Poster Award
2. Kim YJ, Chung SJ, Jung JH, Lee PH, Jeong Y. Baseline white matter microstructural changes predict the development of dementia in early-stage Parkinson's disease. Presented at 2020 Fall conference of Korean Dementia Association. Seoul, Korea, Nov 14, 2020. (F04 and B01, Abst. p.50 and 392). \*Featured poster and Best Poster award
3. Kim S, Jeong Y. Deep learning based Amyloid pathology prediction model in Alzheimer's continuum by using <sup>18</sup>F-FDG-PET. Presented at 2020 Fall conference of Korean Dementia Association. Seoul, Korea, Nov 14, 2020. (F05 and B04, Abst. p51 and 395). \*Featured poster
4. Byun J, Jeong Y. The impact of SNPs on Alzheimer's disease classification based on resting state fMRI. Presented at 2020 Fall conference of Korean Dementia Association. Seoul, Korea, Nov 14, 2020. (A13 Abst. p390).
5. Byun J, Jeong Y. Classification of Alzheimer's disease based on resting state functional MRI and SNPs. Presented at 2020 Annual Meeting of Korean Society for Human Brain Mapping, Online, Nov 6, 2020 (Abst. p. 58)
6. Kim S, Lee DY, Yun MJ, Jeong Y. Deep learning and <sup>18</sup>F-FDG-PET based amyloid positivity prediction model in Alzheimer's continuum. Presented at 2020 Annual Meeting of Korean Society for Human Brain Mapping, Online, Nov 6, 2020 (Abst. p. 60). \*Best Poster Award
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36. Lee YB, Yoo K, Rho JH, Moon WJ, Jeong Y. Dynamic functional connectivity analysis for decoding brain-states using transition patterns. Presented at 2017 Annual Meeting of Korean Society for Human Brain Mapping, Seoul, Korea, Nov 3, 2017 (p. 151)
37. Chung J, Lee P, Lee YB, Jeong Y. The supply and allocation of neuronal resource: A Neuro-marker for arousal and attentional process. Presented at 2017 Annual Meeting of Korean Society for Human Brain Mapping, Seoul, Korea, Nov 3, 2017 (p. 167)
38. Jeong Y. In vivo optical imaging for neuronal dynamics and cerebral hemodynamics study. Presented at Mouse Genetics Symposium, Seoul, Korea, Oct 18, 2017 (Invited talk)
39. Chung J, Yoo K, Lee P, Kim CM, Roh 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. Presented at the 20th Annual Meeting of the Korean Society for Brain and Neural Science, Seoul, Korea, August 30, 2017 (P1-171)
40. Kim HR, Lee P, Seo SW, Roh JH, Oh M, Oh J, Oh SJ, Kim JS, Jeong Y. Predicting the distribution of Alzheimer's disease-associated proteins using the Brain Network. Presented at the 20th Annual Meeting of the Korean Society for Brain and Neural Science, Seoul, Korea, August 30, 2017 (P1-172)
41. Lee YB, Yoo K, Rho JH, Moon WJ, Jeong Y. The Brain-state Extraction Algorithm based on the State Transition (BEST): a Dynamic Functional Brain Network Analysis in fMRI Study. Presented at the 20th Annual Meeting of the Korean Society for Brain and Neural Science, Seoul, Korea, August 30, 2017 (P1-177)
42. Park SA, Im JY, Ahn SI, Kim S, Choe YG, Jeong Y, Choi KS, Lee HS. A Critical role of the TRAF6-binding domain in p62-mediated tau degradation. Presented at the 20th Annual Meeting of the Korean Society for Brain and Neural Science, Seoul, Korea, August 31, 2017 (P3-038)

43. Yoon JH, Lee ES, Andika FR, Jeong Y. Cerebral Endothelial Glycocalyx Degradation Does Not Influence on Blood-Brain Barrier Integrity. Presented at the 20th Annual Meeting of the Korean Society for Brain and Neural Science, Seoul, Korea, August 31, 2017 (P3-072)
44. Lee ES, Yoon JH, Choi JY, Andika FR, Lee TK, Jeong Y. Presented at the 20th Annual Meeting of the Korean Society for Brain and Neural Science, Seoul, Korea, August 31, 2017 (P3-075)
45. Kang M, Yang HW, Jeong Y. Visual cortex activation modulated by relative head direction change is stronger in secondary areas. Presented at the 20th Annual Meeting of the Korean Society for Brain and Neural Science, Seoul, Korea, August 31, 2017 (P3-115)
46. Choi J, Jeong Y. Neural Mechanism of Working Memory Deficit in Anxious State. Presented at the 20th Annual Meeting of the Korean Society for Brain and Neural Science, Seoul, Korea, August 31, 2017 (P3-139)
47. Chung J, Yoo K, Lee P, Roh JH, Park JE, Kim SJ, Shin JH, Seong JK, Seo SW, Jeong Y. Improvement of Cortical Thickness Compatibility Between Different MRI T1 Protocols By W-Score Standardization. Presented at Alzheimer's Association International Conference (AAIC) 2017, London, UK, July 16, 2017 (P1-132)
48. Kim H, Jeong Y. KAIST Dr.M-Mobile Healthcare System and Utilization of Testbed for Large-scaled Research. Presented at International Conference on Biomedical and Health Informatics (BHI). Orlando, FL: IEEE Engineering in Medicine and Biology Society (EMBS), Feb. 18 2017
49. Song M, Kang M, Lee H, Lee H, Jeong Y., Paik SB. Spatio-temporal classification of neural activity patterns in dynamic brain imaging data. Program No. 756.08. 2016 Neuroscience Meeting Planner. San Diego, CA: Society for Neuroscience, 2016.
50. Choung OH, Jeong Y. Sequential integration of task-related dimensional components during multi-dimensional reinforcement learning task. Program No. 645.25. 2016 Neuroscience Meeting Planner. San Diego, CA: Society for Neuroscience, 2016.
51. Choi J, Jeong Y. Heightened emotional contagion in the mouse model of Alzheimer's disease. Program No. 599.13. 2016 Neuroscience Meeting Planner. San Diego, CA: Society for Neuroscience, 2016.
52. Lee H, Chung S, Lee P, Jeong Y. Disruptions of intrinsic functional connectivity during epileptogenesis in a mouse model of temporal lobe epilepsy. Program No. 593.17. 2016 Neuroscience Meeting Planner. San Diego, CA: Society for Neuroscience, 2016.
53. Kang M, Lee YB, Gohel B, Jeong Y. Characterizing the large-scale network structure of spontaneous brain activity in mouse neocortex with voltage-sensitive dye imaging. Program No. 507.08. 2016 Neuroscience Meeting Planner. San Diego, CA: Society for Neuroscience, 2016.
54. Kim S, Lee P, Kim J, Jeong Y. In vivo wide-field imaging and quantitative analysis reveals decrease of perivascular drainage in Alzheimer's disease. Program No. 40.19. 2016 Neuroscience Meeting Planner. San Diego, CA: Society for Neuroscience, 2016.

55. Yoo K, Lee P, Chung MK, Sohn WS, Chung SJ, Na DL, Ju D, Jeong Y. Degree-based statistics and center persistency for brain connectivity analysis. Presented at 2016 Annual Meeting of Korean Society for Human Brain Mapping, Seoul, Korea, Nov 4, 2016 (p. 31) (selected as 'the Best Research Presentation Award)
56. Choung OH, Jeong Y. Sequential integration of value learning is occurred along with exploration of unknown information in uniformed reward learning task. Presented at 2016 Annual Meeting of Korean Society for Human Brain Mapping, Seoul, Korea, Nov 4, 2016 (p. 74)
57. Chung J, Yoo K, Lee P, Jeong Y. MRI T1 compatibility between different protocol can be improved by w-score standardization in cortical thickness analysis. Presented at 2016 Annual Meeting of Korean Society for Human Brain Mapping, Seoul, Korea, Nov 4, 2016 (p. 103)
58. Kim S, Lee P, Kim J, Jeong Y. In vivo wide-field imaging and quantitative analysis reveals decrease of perivascular drainage in Alzheimer's disease. Presented at Annual Biophotonics Conference 2016, Daejeon, Nov 4-5, 2016 (Tissue Biophotonics 35, p35)
59. Lee H, Chung S, Lee P, Jeong Y. Alterations of functional connectivity during epileptogenesis in a mouse model of temporal lobe epilepsy using intrinsic optical signal imaging. Presented at Annual Biophotonics Conference 2016, Daejeon, Nov 4-5, 2016 (Tissue Biophotonics 36, p35)
60. Kang M, Lee YB, Gohel B, Jeong Y. Characterization of the large-scale network structure of spontaneous brain activity in mouse neocortex with voltage-sensitive dye imaging. Presented at Annual Biophotonics Conference 2016, Daejeon, Nov 4-5, 2016 (Tissue Biophotonics 37, p35)
61. Lee H, Jung S, Lee. PJ, Jeong Y. Alteration of intrinsic functional connectivity during epileptogenesis in a mouse model of temporal lobe epilepsy. Presented at 19th Korean Society for Brain and Neural Science Annual Meeting, Goyang, Sep 28-29, 2016 (E-05, p165) Presented at Annual Biophotonics Conference 2016, Daejeon, Nov 4-5, 2016 (p35)
62. Choi J, Jeong Y. Increased synchronized oscillation in salience network like regions is associated with the heightened emotional contagion in the mouse model of Alzheimer's disease. Presented at 19th Korean Society for Brain and Neural Science Annual Meeting, Goyang, Sep 28-29, 2016 (CB-22, p183)
63. Kim S, Jeong Y. Quantification of perivascular drainage in mouse cerebral cortex for the study of its role in Alzheimer's disease. Presented at the 30<sup>th</sup> CINP World Congress of Neuropsychopharmacology, Seoul, July 3-5, 2016 (PT571, p90)
64. Lee H, Jeong Y, Jung S. Alteration of functional connectivity in pilocarpine-induced mouse model of temporal lobe epilepsy in latent period. Presented at the 30<sup>th</sup> CINP World Congress of Neuropsychopharmacology, Seoul, July 3-5, 2016 (PT605, p94)
65. Jung S, Jeon D, Jeong Y, Yang H. Development of behavioral dysfunction in mice cohabit with brain disordered cage-mate. Presented at the 30<sup>th</sup> CINP World Congress of Neuropsychopharmacology, Seoul, July 3-5, 2016 (PT668, p44).

66. Choung O, Jeong Y. Incremental dimensional exploratory reasoning under multi-dimensional environment. Presented at 25<sup>th</sup> Annual Computational Neuroscience Meeting, Jeju, Korea, July 2-7, 2016
67. Lee YB, Jeong Y. Semi-automated network analysis of functional connectivity dynamics during fMRI task. Presented at Organization for Human Brain Mapping's 2016 Annual Meeting, Geneva, Swiss, July25-30, 2016
68. Chung J, Yoo K, Jeong Y. Neural Substrates of Visual Spatial and Non-spatial Top-down Attentional Process; an MVPA study. Presented at Organization for Human Brain Mapping's 2016 Annual Meeting, Geneva, Swiss, July25-30, 2016
69. Yoo K, Lee P, Lee YB, Na DL, Seo SW, Jeong Y. Resting fMRI-based classification of amyloid positive and negative aMCI patients. Presented at Organization for Human Brain Mapping's 2016 Annual Meeting, Geneva, Swiss, July25-30, 2016
70. Kim S, Lee PJ, Kim J, Jeong Y. In vivo quantification of perivascular drainage in mouse cerebral cortex and its role in Alzheimer's disease. Presented at 4<sup>th</sup> International Conference on Molecular Neurodegeneration, Seoul, Korea, May 9-11, 2016 (Abst, P1-D14, p74)
71. Yu HS, Lee JH, Lee KR, Jeong Y, Park YK. In vivo mouse tissue imaging by depth-enhanced optical coherence tomography using complex wavefront shaping. Presented at Asia Communications and Photonics Conference 2016, Hong Kong, Nov 19-23, 2016
72. Kim S, Lee PJ, Kim J, Jeong Y. Quantification of perivascular drainage in mouse cerebral cortex and its role in Alzheimer's disease. Presented at 34<sup>th</sup> Annual Meeting of the Korean Neurological Association, Seoul, Korea, Nov 13-14, 2015 (Abst, P-1-77, p65)
73. Lee PJ, Ryoo H, Park J, Jeong Y. Differences in hippocampal surface and white matter structure in early and Late MCA: ADNI Study. Presented at 34<sup>th</sup> Annual Meeting of the Korean Neurological Association, Seoul, Korea, Nov 13-14, 2015 (Abst, P-2-94, p181)
74. Lee E, Yoon J, Choi J, Yang H, Jeong Y. Apolipoprotein E deficiency worsens small vessel pathology and cognitive dysfunction in a mouse model of subcortical vascular dementia. Presented at 34<sup>th</sup> Annual Meeting of the Korean Neurological Association, Seoul, Korea, Nov 13-14, 2015 (Abst, P-2-296, p248)
75. Gohel B, Lee PJ, Kim MY, Kim KW, Jeong Y. MEG based functional connectivity: Application of ICA to eliminate power leakage. Presented at 2014 Annual Meeting of Korean Society for Human Brain Mapping, Seoul, Korea, Nov 6, 2015
76. Lee PJ, Ryoo H, Park J, Jeong Y. Hippocampal structural differences in early versus late MCI. Presented at 2015 Annual Meeting of Korean Society for Human Brain Mapping, Seoul, Korea, Nov 6, 2015
77. Lee YB, Jeong Y. Systemic network aggregation and segregation of time-varying connectivity with the task related network. Presented at 2015 Annual Meeting of Korean Society for Human Brain Mapping, Seoul, Korea, Nov 6, 2015

78. Leem Y, Lee E, Lee YB, Yoo K, Choung OH, Jeong Y. Predictive coding explains neural population responses during perceptual expectation. Presented at 2015 Annual Meeting of Korean Society for Human Brain Mapping, Seoul, Korea, Nov 6, 2015
79. Jeong Y. MRI-based cortical anatomy. Presented at 2015 Fall conference of Korean Dementia Association. Seoul, Korea, Nov 6, 2015 (invited talk)
80. Jeong Y. In vivo optical imaging for neuronal dynamics and cerebral hemodynamics study in brain diseases. Presented at Annual Biophotonics Conference 2015, Seoul, Korea, Oct. 31, 2015 (invited talk)
81. Yu H, Lee J, Lee KR, Jeong Y, Park YK. In vivo tissue imaging using depth-enhanced optical coherence tomography. Presented at Annual Biophotonics Conference 2015, Seoul, Korea Oct. 30-31, 2015
82. Yoon J, Lee ES, Jeong Y. Effect of endothelial glycocalyx disruption on blood-brain barrier integrity in mice. Presented at 27<sup>th</sup> International Symposium on Cerebral Blood Flow, Metabolism and Function & 12<sup>th</sup> International Conference on Quantification of Brain Function with PET, Vancouver, Canada, June 27-30, 2015
83. 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
84. 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
85. 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
86. 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)
87. 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
88. Jeong Y. Resting state network in dementia. Presented at 2014 53th Annual Meeting of Korean Society of Nuclear Medicine. (invited talk) Seoul, Korea, Nov 8, 2014. Nucl Med Mol Imaging 48(Supple 2)
89. 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)



90. 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)
91. Lee YB, Lee J, Tak S, Lee K, Jeong Y, Ye JC. A sparse graph model can directly identify resting-state functional connectivity of Alzheimer's disease in fMRI. Presented at 2014 Annual Meeting of Korean Society for Human Brain Mapping, Seoul, Korea, Nov 7, 2014 (Poster number: Modeling and Analysis Methods Neuroanatomy section 4) \* Best poster award
92. 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)
93. 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)
94. 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)
95. 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)
96. 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)
97. 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)
98. 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)
99. 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

100. Sohn WS, Lee YB, Yoo K, N DL, Jeong Y. Subject specific ROIs for resting state Alzheimer's disease classification. Presented at 2013 Annual Meeting of Korean Society for Human Brain Mapping, Seoul, Korea, Nov 1, 2013
101. Lee YB, Yoo K, Sohn WS, Jeong Y. Classification of Alzheimer's disease with resting state brain network using multivariate pattern analysis. Presented at 2013 Annual Meeting of Korean Society for Human Brain Mapping, Seoul, Korea, Nov 1, 2013 (Poster number 3)
102. 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)
103. 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)
104. 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)
105. 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)
106. 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
107. 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)
108. 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)
109. 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)
110. 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)

111. 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 Organization for Human Brain Mapping, Seattle, WA, USA, June 16-20. 2013 (Poster number, MT 2026)
112. 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)
113. 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)
114. 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)
115. 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)
116. 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)
117. 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)
118. Sohn WS, Sailamul P, Kang JK, Jeong Y. Isolation of Epileptic Focus using Localized Independent Component Analysis. Presented at 2012 Annual Fall Conference of Korean Society for Human Brain Mapping, Seoul, Korea Nov. 2, 2012.
119. 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.
120. Ghahremani M, Yoo K, Chung SJ, Jeong Y., Ye, JC. Brain resting state network connectivity in patients with Parkinson's disease and cognitive impairment. Presented at 2012 Annual Fall Conference of Korean Society for Human Brain Mapping, Seoul, Korea Nov. 2, 2012.
121. Lee E, Lee JE, Yoo K, Lee PH, Jeong Y., Kang SY. Neural substrates of sequence effect in Parkinson's disease. Presented at 2012 Annual Fall Conference of Korean Society for Human Brain Mapping, Seoul, Korea Nov. 2, 2012.

122. Lee YB, Hong H, Jeong Y. Detection of Implicit thought with eye tracking: Modified Implicit Association Test Reveals the subsistent of implicit intention. Presented at 2012 Annual Fall Conference of Korean Society for Human Brain Mapping, Seoul, Korea Nov. 2, 2012.
123. Sohn WS, Yoo K, Jeong Y. Localized independent component analysis for mapping functional sub-networks. Presented at 2012 Annual Fall Conference of Korean Society for Human Brain Mapping, Seoul, Korea Nov. 2, 2012.
124. Bakul G, Jeong Y. Morphological modulation in EEG waveform during Motor Imagery. Presented at 2012 Annual Fall Conference of Korean Society for Human Brain Mapping, Seoul, Korea Nov. 2, 2012.
125. Han YH, Kim JH, Jeong Y. Study of perivascular drainage in mouse brain and relationship with Alzheimer's disease. Presented at the 15<sup>th</sup> Annual Meeting of the Korean Society for Brain and Neural Science (CB-8), Seoul, Korea, Sep.25-26. Experimental Neurobiology 21(2, supple2012) p84.
126. Lee YB, Park DH, Jeong Y. Effect of rTMS on Broca's area on verbal memory performance. Presented at the 15<sup>th</sup> Annual Meeting of the Korean Society for Brain and Neural Science (CB-13), Seoul, Korea, Sep.25-26. Experimental Neurobiology 21(2, supple2012) p87
127. Yoo KS, Chung SJ, Kim MJ, You S, Sohn WS, Jeong Y. Intrinsic functional connectivity of subcortical motor circuit in patients with Parkinson's disease. Presented at the 18th Annual Meeting of the Organization for Human Brain Mapping (292 WTh), Beijing, China, June 10-14
128. 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
129. 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
130. 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.
131. 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. \*Best Poster Award
132. 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.

133. Kim J, Jeong Y. Augmented hemodynamic responses in early Alzheimer's disease model mice. Program No. 875.12. 2011 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2011. Online. \* AKN award
134. Sohn WS Yoo KS, Na DL, Jeong Y. Progressive changes in hippocampal resting state functional connectivity in amnesic mild cognitive impairment and Alzheimer's disease. Presented at 2011 Annual Fall Conference of Korean Society for Human Brain Mapping, Seoul, Korea Nov. 4, 2011.
135. Yoo KS, Chung SJ, You S, Kim M-J, Jeong Y. Changes in intrinsic functional network connectivity in patients with Parkinson's disease. Presented at 2011 Annual Fall Conference of Korean Society for Human Brain Mapping, Seoul, Korea Nov. 4, 2011.
136. Sohn WS Yoo KS, Jeong Y. Localized independent component analysis (LICA) for mapping task specific motor network. Presented at 2011 Annual Fall Conference of Korean Society for Human Brain Mapping, Seoul, Korea Nov. 4, 2011. \*Best Poster Award
137. 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.
138. Sohn WS, Sailamul P, Kang JK, Lee EM, Jeong Y. Localization of interictal epileptiform discharges using fMRI-EEG. J Korean Neurol Assoc. 2011 October;29 (Suppl. 1):103.
139. Kim EJ, Cho SS, Jeong BH, Kim YS, Seo SW, Na DL, Geschwind MD, Jeong Y. Specific brain regions preferentially affected in sporadic Creutzfeldt-Jacob disease: an SPM analysis of 18F-FDG PET. J Korean Neurol Assoc. 2011 October;29 (Suppl. 1):168.
140. Yoo KS, Chung SJ, You S, Kim MJ, Sohn WS, Jeong Y. Resting state sensory motor network in patients in Parkinson's disease. J Korean Neurol Assoc. 2011 October;29 (Suppl. 1):183. \*Best Poster Award
141. 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.
142. 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.
143. 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.
144. Jeong Y. Network approach of the brain and neurological disease. J Korean Neurol Assoc. 2011 April;29 (Suppl. 1):13. (Invited talk)
145. 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)

146. 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)
147. Sohn WS, Yoo K, Na DL, Jeong Y. Changes in Hippocampal Network in amnesic Mild Cognitive Impairment and Alzheimer's disease. The 14<sup>th</sup> 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. \*Excellent research award
148. Yoo K, Sohn WS, Jeong Y. Training-induced changes in resting state sensory-motor network. The 14<sup>th</sup> 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
149. 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
150. 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.
151. 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.
152. Jeong Y. Physiology and Function of Cerebral Cortex. Presented at 13th Spring meeting of Korean Society for Clinical Neurophysiology. April 2, 2010 (Lecture course)
153. 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
154. Kim J, Jeong Y. In vivo brain imaging of Alzheimer's disease and other dementia. Presented in DRD2009. Oct 21-23, Okayama, December 11, 2009 (Invited talk)
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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