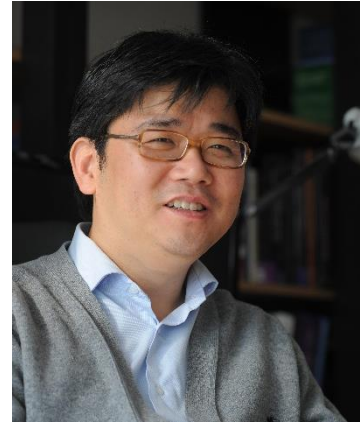


# CURRICULUM VITAE

Yong Jeong, MD, Ph.D

## Present Positions:

- Associate Professor, KAIST  
Department of Bio and Brain Engineering,  
Program of Brain and Cognitive Engineering  
Graduate School of Medical Science and Engineering,  
Graduate Program for Future Strategy  
Tel : +82-42-350-4324  
Mobile: +82-10-8003-1225  
Fax : +82-42-350-7168  
E-mail: [yong@kaist.ac.kr](mailto:yong@kaist.ac.kr), [yong@kaist.edu](mailto:yong@kaist.edu)  
Lab: +82-42-350-4364  
Lab manager: +82-42-350-5364  
KIHST: +82-42-350-7264  
Google Scholar: <http://scholar.google.com/citations?user=zsVfq6sAAAAJ&hl=en>  
Research ID: <http://www.researcherid.com/rid/C-1677-2011>  
Mendely: <http://www.mendeley.com/profiles/yong-jeong2/>  
Orcid: <http://orcid.org/0000-0002-5907-3787>
- 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

## 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. 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.
2. 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
3. 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
4. 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
5. 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.
6. 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 \*co-correspondence
7. 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.
8. 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.
9. 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

10. Lee M, Lee E, Jung J, Yu H, Kim K, Yoon J, Lee S, Jeong Y\*, Park YK\*. Label-free optical quantification of structural alterations in Alzheimer's disease. *Sci Rep.* 2016 Aug 3;6:31034. doi: 10.1038/srep31034. PubMed PMID: 27485313. \*co-correspondence
11. 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
12. Gohel B, Lee P, Jeong Y\*. Modality-specific spectral dynamics in response to visual and tactile sequential shape information processing tasks: An MEG study using multivariate pattern classification analysis. *Brain Res.* 2016 Aug 1644:39-52.
13. Yu H, Lee P, Lee K, Jang J, Lim J, Jang W, Jeong Y\*, Park YK\*. In vivo deep tissue imaging using wavefront shaping optical coherence tomography. *J Biomed Opt.* 2016 Oct 1;21(10):101406. doi: 10.1117/1.JBO.21.10.101406. \*co-correspondence
14. Lee ES, Yoo K, Lee YB, Chung J, Lim JE, Yoon B, Jeong Y\*; Alzheimer's Disease Neuroimaging Initiative. Default Mode Network Functional Connectivity in Early and Late Mild Cognitive Impairment: Results From the Alzheimer's Disease Neuroimaging Initiative. *Alzheimer Dis Assoc Disord.* 2016 Oct-Dec;30(4):289-296.
15. Kim S, Kim S, Khalid A, Jeong Y, Jeong B, Lee ST, Jung KH, Chu K, Lee SK, Jeon D. Rhythmical Photic Stimulation at Alpha Frequencies Produces Antidepressant-Like Effects in a Mouse Model of Depression. *PLoS One.* 2016 Jan 4;11(1):e0145374. doi: 10.1371/journal.pone.0145374. eCollection 2016.
16. Lee YB, Lee J, Tak S, Lee K, Na DL, Seo SW, Jeong Y\*, Ye JC\*. Alzheimer's Disease Neuroimaging Initiative. Sparse SPM: Group Sparse-dictionary learning in SPM framework for resting-state functional connectivity MRI analysis. *Neuroimage.* 2016 Jan 15;125:1032-45. doi: 10.1016/j.neuroimage.2015.10.081. Epub 2015 Oct 31 \*co-correspondence
17. 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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20. Kim H, Yoo K, Na DL, Seo SW, Jeong J\*, Jeong Y\*. Non-monotonic reorganization of brain networks with Alzheimer's disease progression. *Front Aging Neurosci.* 2015 Jun 9;7:111. doi: 10.3389/fnagi.2015.00111. eCollection 2015. \*co-correspondence
21. Finney GR, Williamson JB, Burtis B, Drago V, Mizuno T, Jeong Y, Crucian GP, Haque S, Heilman KM. The Effects of Chronic Right Hemispheric Damage on the Allocation of Spatial Attention: Alterations of Accuracy and Reliability. *J Int Neuropsychol Soc.* 2015 Jun 21:1-5

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23. Jung S, Jeong Y\*, Jeon D\*. Epileptic activity during early postnatal life in the AY-9944 model of atypical absence epilepsy. Cell Calcium. 2015 May;57(5-6):376-84. doi:10.1016/j.ceca.2015.04.001. Epub 2015 Apr 8. \*co-correspondence
24. Lee J, Kim Y, Jeong Y, Na DL, Kim JW, Lee KH, Lee D. Inference of brain pathway activities for Alzheimer's disease classification. BMC Med Inform Decis Mak. 2015;15 Suppl 1:S1. doi: 10.1186/1472-6947-15-S1. Epub 2015 May 20. PubMed PMID: 26044913; PubMed Central PMCID: PMC4460780.
25. Yoo K, Chung SJ, Kim HS, Choung OH, Lee YB, Kim MJ, You S, Jeong Y\*. Neural substrates of motor and non-motor symptoms in Parkinson's disease: a resting FMRI study. PLoS One. 2015 Apr 24;10(4):e0125455. doi: 10.1371/journal.pone.0125455. eCollection 2015. PubMed PMID: 25909812.
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27. Kim J, Jeong Y\*. *In vivo* image of cerebral amyloid angiopathy in Alzheimer's disease mouse model. J Stroke 2015 Jan 30;17(1):87-88. Doi: 10.5853/jos.2015.17.1.87
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41. Kim EJ, Cho SS, Jeong BH, Kim YS, Seo SW, Na DL, Geschwind MD, Jeong Y\*. Glucose metabolism in sporadic Creutzfeldt-Jakob disease: an SPM Analysis of 18F-FDG PET. *European Journal of Neurology*. 2012 Mar;19(3):488-493. doi: 10.1111/j.1468-1331.2011.03570.x. Epub 2011 Nov 4.
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45. Tak S, Yoon SJ, Jang J, Yoo K, Jeong Y\*, Ye JC\*. Quantitative analysis of hemodynamic and metabolic changes in subcortical vascular dementia using simultaneous near-infrared spectroscopy and fMRI measurements. *NeuroImage* 2011 Mar 1;55(1):176-84. [Epub 2010 Nov 20.] \* co-correspondence
46. Kim YK, Na HK, Kwack SJ, Ryoo SR, Lee Y, Hong S, Hong S, Jeong Y, Min DH. Synergistic Effect of Graphene Oxide/MWCNT Films in Laser Desorption/Ionization Mass Spectrometry of Small Molecules and Tissue Imaging. *American Chemical Society Nano*. 2011 Jun 28;5(6):4550-61.
47. Lyoo CH, Jeong Y, Ryu YH, Rinne JO, Lee MS. Cerebral Glucose Metabolism of Parkinson's Disease Patients with Mild Cognitive Impairment. *Eur Neurol*. 2010 Jul 1;64(2):65-73. [Epub 2010 Jul 1]
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49. Jang KE, Tak S, Jung J, Jang J, Jeong Y\*, Ye JC\*. Wavelet minimum description length detrending for near-infrared spectroscopy. *J Biomed Opt*. 2009 May-Jun;14(3):034004.
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52. Drago V, Finney GR, Foster PS, Amengual A, Jeong Y, Mizuno T, Crucian GP, Heilman KM. Spatial-attention and emotional evocation: Line bisection performance and visual art emotional evocation. *Brain Cogn*. 2008 Mar;66(2):140-144. Epub 2007 Aug 2.
53. Choi KM, Lee BH, Lee SC, Ku BD, Kim EJ, Suh MK, Jeong Y, Heilman KM, Na DL. Influence of moving background on line bisection performance in the normal elderly versus patients with hemispatial neglect. *Am J Phys Med Rehabil*. 2007 Jul;86(7):515-526.
54. FitzGerald DB, Jeong Y, Chang YL, White KD, Heilman KM. Asymmetrical alien hands in corticobasal degeneration. *Mov Disord*. 2007 Mar;22(4):581-584.
55. Ghacibeh GA, Mirpuri R, Drago V, Jeong Y, Heilman KM, Triggs WJ. Ipsilateral motor activation during unimanual and bimanual motor tasks. *Clin Neurophysiol*. 2007 Feb;118(2):325-332.
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57. Mizuno T, Crucian GP, Finney GR, Jeong Y, Drago V, Heilman KM. Incremental limb hypometria. *J Neurol Neurosurg Psychiatr*. 2006 Jun;77(6):793-795.
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### *Proceedings*

1. Lee M, Jung JH, Lee ES, Jeong Y, Park YK. Identification of amyloid plaques in mouse brain tissue slides using quantitative phase imaging. The 11<sup>th</sup> Conference on Lasers and Electro-Optics Pacific Rim (CLEO-PR 2015), Busan, Korea, Aug 24-28. 2015
2. Lee J, Kim Y, Jeong Y, Na DL, Kim JW, Lee KH, Lee D. Discriminatory analysis of Alzheimer's disease through pathway activity inference in the resting-state brain. Proceedings of the ACM 8th International Workshop on Data and Text Mining in Bioinformatics. p11. ACM, Nov 7, 2014

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4. Lee J, Jeong Y, Ye JC. Group sparse dictionary learning and inference for resting-state fMRI analysis of Alzheimer's disease. Biomedical Imaging (ISBI), 2013 pp.540-543. 2013 IEEE 10th International Symposium on Biomedical Imaging:From Nano to Macro. San Francisco, CA, USA, April 7-11, 2013
5. Sohn WS, Yoo KS, Kim J, Jeong Y. Resting state brain networks and their implications in neurodegenerative disease. Proc. SPIE 8548, , 85483Z (October 24, 2012); doi:10.1117/12.2000254
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#### *Domestic Journals*

1. Jeong Y. Physiology and Function of Cerebral Cortex. Journal of the Korean Society for Clinical Neurophysiology 2010;12(1):8-12.
2. Jeong Y. Neuroanatomical Basis of Apraxia. Brain NeuroRehab 2009;2(1):57-63.
3. Kim J, Jeong Y. Neurovascular coupling and its involvement in Alzheimer's disease. Vascular Neurol 2009;1(1):38-47.
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5. Kim EJ, Suh MK, Park KC, Jeong Y, Chin J, Lee WY, Na DL. A Case of Idiopathic Parkinson's Disease Combined with Progressive Nonfluent Aphasia. J Korean Neurol Assoc. 2004;22(2):152-156.
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2. Jeong Y. Chapter 2. Introduction of Bioelectricity. In: Yoo HJ and C. van Hoof Eds. CMOS Bio-Medical ICs. pp13-29. Springer, 2011, ISBN: 1441965963
3. Kim J, Jeong Y. Chapter 31. In Vivo Optical Imaging of Brain and its Application in Alzheimer's Disease. In: Wu Jinglong Ed. Early Detection and Rehabilitation Technologies for Dementia: Neuroscience and Biomedical Applications. pp236-242. IGI Global, 2011 May ISBN: 1609605594
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#### **Presentation and Exhibition:**

1. Kim HR, Seo SW, Roh JH, Oh M, Oh J, Oh SJ, Kim JS, Jeong Y. Prediction Model of Tau Propagation in AD Spectrum Using Functional Network. Presented at Alzheimer's Association International Conference (AAIC) 2017, London, UK, July 16, 2017 (P1-129)
2. Chung J, Yoo K, Lee P, Roh JH, Park JE, Kim SJ, Shin JH, Seong JK, Seo SW, Jeong Y. 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)
3. 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

4. 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.
5. 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.
6. 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.
7. 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.
8. 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.
9. 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.
10. 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)
11. 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)
12. 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)
13. 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)
14. 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)

15. 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)
16. 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)
17. 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)
18. 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)
19. 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)
20. 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
21. 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
22. 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
23. 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
24. 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)
25. 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

26. 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)
27. 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)
28. 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)
29. 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
30. 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
31. 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
32. 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
33. Jeong Y. MRI-based cortical anatomy. Presented in 2015 Fall conference of Korean Dementia Association. Seoul, Korea, Nov 6, 2015 (invited talk)
34. 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)
35. 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
36. 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
37. 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

38. 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
39. 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
40. 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)
41. 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
42. 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)
43. 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)
44. 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)
45. 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) (selected as a best poster)
46. 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)
47. 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)
48. 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)

49. 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)
50. 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)
51. 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)
52. 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)
53. 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
54. 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
55. 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)
56. 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)
57. 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)
58. 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)

59. 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)
60. 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
61. 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)
62. 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)
63. 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)
64. 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)
65. 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)
66. 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)
67. 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)
68. 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)

69. 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)
70. 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)
71. 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)
72. 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.
73. 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.
74. 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.
75. 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.
76. 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.
77. 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.
78. 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.
79. 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, suppl2012) p84.
80. 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, suppl2012) p87

81. 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
82. 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
83. 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
84. 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.
85. 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)
86. 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.
87. 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. (Selected as an AKN award)
88. 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.
89. 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.
90. 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. (Selected as an Excellent poster award)
91. 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.
92. 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.

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94. 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. (Selected as a Best Poster Award)
95. 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.
96. 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.
97. 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.
98. Jeong Y. Network approach of the brain and neurological disease. J Korean Neurol Assoc. 2011 April;29 (Suppl. 1):13. (Invited talk)
99. 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)
100. 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)
101. 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 (Selected as excellent research award)
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103. 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
104. 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.
105. 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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#### 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