

CURRICULUM VITAE

Yong Jeong, MD, Ph.D

Present Positions:

- Associate Professor
Department of Bio and Brain Engineering,
Graduate School of Medical Science and Engineering,
Graduate Program for Future Strategy
Master of Intellectual Property Program,
Master of Science Journalism Program
KI Center of Optics for Health Science
KI Center of Disaster Studies
Department of Neurology, KAIST Pappalardo Clinic



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- Director
Laboratory for Cognitive Neuroscience and NeuroImaging (ibrain.kaist.ac.kr)
- 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 (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 Fellowship, University of Florida, August 1, 2003 – August 31, 2005
- Research and Clinical Fellowship, 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:

- 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, Head 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

Academic Service

- Journal of Alzheimer's disease, Associate Editor
- World Journal of Radiology, Editorial Board
- Neuroscience and Biomedical Engineering, Editorial Board
- National Research Foundation of Korea, R&D Planner,

Publications:

International Journal

1. 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
2. Sohn WS, Yoo K, Lee YB, Seo SW, Na DL, Jeong Y. Influence of ROI selection on Resting Functional Connectivity: An Individualized Approach for Resting fMRI Analysis. *Frontiers in Neuroscience*. 9:280. doi: 10.3389/fnins.2015.00280.
3. Yoo SW, Guevara P, Jeong Y, Yoo K, Shin JS, Mangin JF, Seong JK. An Example-Based Multi-Atlas Approach to Automatic Labeling of White Matter Tracts. *PLoS One*. 2015 Jul 30;7:e0133337. doi:10.1371/journal.pone.0133337.
4. 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
5. 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
6. Yoo SW, Han CE, Shin JS, Seo SW, Na DL, Kaiser M, Jeong Y*, Seong JK*, A Network flow-based analysis of cognitive reserve in normal ageing and Alzheimer's Disease. *Scientific Report*. 2015 May 20;5:10057. doi: 10.1038/srep10057. *co-correspondence
7. 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
8. 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-S1. Epub 2015 May 20. PubMed PMID: 26044913; PubMed Central PMCID: PMC4460780.
9. 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.
10. Yoon HJ, Lee ES, Kang M, Jeong Y*. Park JH*. In vivo multi-Photon luminescence imaging of cerebral vasculature and blood-brain barrier integrity using gold nanoparticles. *Journal of Materials Chemistry B*. 2015 Mar;3:2935-3938. doi: 10.1039/C4TB01759E *co-correspondence
11. 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

12. Lee E, Lee JE, Yoo K, Hong JY, Oh J, Sunwoo MK, Kim JS, Jeong Y, Lee PH, Sohn YH, Kang SY. Neural correlates of progressive reduction of bradykinesia in de novo Parkinson's disease. *Parkinsonism Relat Disord*. 2014 Dec;20(12):1376-81. doi: 10.1016/j.parkreldis.2014.09.027.
13. Park SG, Ahn MS, Oh YJ, Kang M, Jeong Y, Jeong KH. Nanoplasmonic Biopatch for in vivo Surface Enhanced Raman Spectroscopy. *Biochip J*. 2014 Dec 20;8(4):289-294. doi: 10.1007/s13206-014-8407-5.
14. Gohel B, Jeong Y. Sensory Modality Specific Spatio-temporal Dynamics in Response to Counting Task. *Neurosci Lett*. 2014 Aug 15;581:20-25. doi:10.1016/j.neulet.2014.08.015.
15. Kim TE, Lee DH, Kim YJ, Mok JO, Kim CH, Park JH, Lee TK, Yoo K, Jeong Y, Lee Y, Park SA. The relationship between cognitive performance and insulin resistance in non-diabetic patients with mild cognitive impairment. *Int J Geriatr Psychiatry*. 2014 Jul 25;30(6):551-557. doi: 10.1002/gps.4181.
16. Jo S, Yarishkin O, Hwang YJ, Chun YE, Park M, Woo DH, Bae JY, Kim T, Lee J, Chun H, Park HJ, Lee DY, Hong J, Kim HY, Oh SJ, Park SJ, Lee H, Yoon BE, Kim Y, Jeong Y, Shim I, Bae YC, Cho J, Kowall NW, Ryu H, Hwang E, Kim D, Lee CJ. GABA from reactive astrocytes impairs memory in mouse models of Alzheimer's disease. *Nat Med* 2014 Aug; 20(8): 886-896. doi: 10.1038/nm.3639. [Epub 2014 June 29]
17. Sohn WS, Yoo K, Na DL, Jeong Y. Progressive changes in hippocampal resting state connectivity across cognitive impairment: a cross-sectional study from normal to Alzheimer's disease. *Alzheimer Dis Assoc Disord*. 2014;28(3):239-46. doi: 10.1097/WAD.000000000000027. PubMed PMID: 24614267.
18. 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 Impairment with versus without cerebral amyloid burden. *J Stroke Cerebrovasc Dis* 2014 May-Jun;23(5):958-66. doi: 10.1016/j.jstrokecerebrovasdis.2013.08.004. Epub 2014 Feb 28.
19. Kim J, Jeong Y. Augmentation of sensory-evoked hemodynamic response in an early Alzheimer's disease mouse model. *J Alzheimer Dis*. 2013 Jan 1;37(4):857-868. doi: 10.3233/JAD-121900
20. Yoo KS, Sohn WS, Jeong Y. Tool-use practice induces changes in intrinsic functional connectivity of parietal areas. *Frontiers in Human Neuroscience*. 2013 Feb 26 7:49. doi: 10.3389/fnhum.2013.00049
21. Sohn WS, Yoo KS, Jeong Y. Independent Component Analysis of Localized Resting State fMRI Reveals Specific Motor Sub-Networks. *Brain Connectivity* 2012 Sep 20;2(4):218-224. [Epub 2012 Aug 9]
22. Lee W, Bae CY, Kwon S, Son J, Kim J, Jeong Y, Yoo SS, Park JK. Cellular Hydrogel Biopaper for Patterned 3D Cell Culture and Modular Tissue Reconstruction. *Advanced Healthcare Materials* 2012 Sep 14;1(5):635-639. doi.: 10.1002/adhm.201200158 [Epub Jul 25]

23. Lee PH, Lee JE, Kim HS, Song SK, Lee HS, Nam HS, Cheong JW, Jeong Y, Park HJ, Kim DJ, Nam CM, Lee JD, Kim HO, Sohn YH. A randomized trial of mesenchymal stem cells in multiple system atrophy. *Annals of Neurology* 2012 Jul 23;32-40. doi: 10.1002/ana.23612 72(1)
24. Park HC, Song C, Kang M, Jeong Y, Jeong KH. Forward imaging OCT endoscopic catheter based on MEMS lens scanning. *Optics Letter* 2012 July 1;37(13):2673-75.
25. 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.
26. Cho Y, Seong JK, Jeong Y, Shin SY. Individual Subject Classification for Alzheimer's Disease based on Incremental Learning Using a Spatial Frequency Representation of Cortical Thickness Data. *NeuroImage* 2012 Feb 1;59(3):2217-30. Epub 2011 Oct 8.
27. Cho Y, Seong JK, Shin SY, Jeong Y, Kim JH, Qiu A, Im K, Lee JM, Na DL. A Multi-Resolution Scheme for Distortion-Minimizing Mapping between Human Subcortical Structures based on Geodesic Construction on Riemannian Manifolds. *Neuroimage*. 2011 Aug 15;57(4):1376-92. Epub 2011 May 30.
28. Yoon JH, Suh MK, Jeong Y, Ahn HJ, Moon SY, Chin J, Seo SW, Na DL. Agraphia in Korean patients with early onset Alzheimer's disease. *Int Psychogeriatr*. 2011 Oct;23(8):1317-26. Epub 2011 May 27.
29. 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
30. 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.
31. 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]
32. Seo SW, Ahn J, Yoon U, Im K, Lee JM, Kim ST, Ahn HJ, Chin J, Jeong Y, Na DL. Cortical thinning in vascular mild cognitive impairment and vascular dementia of subcortical type. *J Neuroimaging*. 2010;20(1):37-45. [Epub 2009 Feb 10]
33. 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.
34. Lyoo, CH, Jeong Y, Ryu YH, Lee SY, Song TJ, Lee JH, Rinne JO, Lee MS. Effects of disease duration on the clinical features and brain glucose metabolism in patients with mixed type multiple system atrophy. *Brain* 2008 Feb;131(Pt 2):438-446. Epub 2008 Jan 4.

35. Drago V, Crucian GP, FitzGerald DB, Jeong Y, Finney GR, Heilman KM. Spatial attentional bias in normal people: Object or viewer-centered. *Cortex* 2008 Feb;44(2):196-199. Epub 2007 Nov 17.
36. 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.
37. 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.
38. FitzGerald DB, Jeong Y, Chang YL, White KD, Heilman KM. Asymmetrical alien hands in corticobasal degeneration. *Mov Disord.* 2007 Mar;22(4):581-584.
39. 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.
40. Jeong Y, Tsao JW, Efron DB, Heilman KM. Callosal neglect in hydrocephalus. *Neurocase*, 2006 Dec;12(6):346-9.
41. 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.
42. Drago V, Jeong Y, Crucian GP, FitzGerald DB, Finney GR, Mizuno T, Pisani F, Heilman KM. Ipsilesional attentional-approach neglect or crossover effect. *Neurocase.* 2006 Aug;12(4):207-211.
43. Jeong Y, Drago V, Heilman KM. Radial character line bisection. *Cogn Behav Neurol.* 2006 Jun;19(2):105-108.
44. Jeong Y, Song YM, Chung PW, Kim EJ, Kang SJ, Kim JM, Cho SS, Kim SE, Byun HS, Na DL. Correlation of Ventricular Asymmetry with Metabolic Asymmetry in Frontotemporal Dementia. *J Neuroradiol.* 2005 Sep;32(4):247-254.
45. Jeong Y, Cho SS, Park JM, Kang SJ, Lee JS, Kang E, Na DL, Kim SE. 18F-FDG PET Findings in Frontotemporal Dementia: An SPM Analysis of 29 Patients. *J Nucl Med.* 2005 Feb;46(2):233-239.
46. Kim EJ, Cho SS, Jeong Y, Park KC, Kang SJ, Kang E, Kim SE, Lee KH, Na DL. Glucose metabolism in early onset versus late onset Alzheimer's disease: an SPM analysis of 120 patients. *Brain.* 2005 Aug ;128(8):1790-1801. [Epub 2005 May 11]
47. Park KC, Jeong Y, Lee BH, Kim EJ, Kim GM, Heilman KM, Na DL. Left Hemispatial Visual Neglect Associated with a Combined Right Occipital and Splenial Lesion: Another Disconnection Syndrome. *Neurocase.* 2005 Oct;15(4):310-318.

48. Jeong Y, Park KC, Cho SS, Kim EJ, Kang SJ, Kim SE, Kang E, and Na DL. Pattern of glucose hypometabolism in frontotemporal dementia with motor neuron disease. *Neurology* 2005 Feb;64(4):734-737.
49. Choi KM, Jeong Y, Lee BH, Ahn HJ, Kang SJ, Chin J, Ku BD, Heilman KM, Na DL. The influence of illusory motion on line bisection performance in normal subjects. *J Int Neuropsychol Soc.* 2005 Nov;11(7):881-888.
50. Jeong Y, Lee BH, Ahn HJ, Park KC, Heilman KM, Na DL. Attentional Bias Induced by Viewing Actual or Illusory Movements. *Neurology.* 2004 Apr;62(8):1333-1337.
51. Kang SJ, Choi SH, Lee BH, Jeong Y, Hahm DS, Han IW, Cummings JL, Na DL. Caregiver-Administered Neuropsychiatric Inventory (CGA-NPI). *J Geriatr Psychiatry Neurol.* 2004 Mar;17(1):32-35.
52. Kang SJ, Jeong Y, Lee BH, Baek MJ, Kwon JC, Chin J, Na DL. How early are initial symptoms recognized in Korean patients with Alzheimer's disease? *Int J Geriatr Psychiatry.* 2004 Jul;19(7):699-700.
53. Kwon JC, Lee BH, Ji JM, Jeong Y, Kim BJ, Heilman KM, Na DL. Length perception and production of normal subjects in proximal versus distal peripersonal space. *J Int Neuropsychol Soc.* 2004 Oct;10(6):913-919.
54. Jeong Y, Chin J, Tae WS, Hong SB, Na DL. Serial PET Findings in a Patient with Hydrocephalic Dementia and Alzheimer's Disease. *J Neuroimaging.* 2004 Apr;14(2):170-175.
55. Heilman KM, Jeong Y, Finney GR. Spatial cognition. *Neurology.* 2004 Dec;63(11):1994-1996.
56. Lee BH, Jeong Y, Kang SJ, Baek MJ, Chin J, Adair JC, Na DL. Visual search pattern during the line quadrisection task in normal subjects. *Exp Brain Res.* 2004 Jun;156(4):487-494. Epub 2004 Feb 19.
57. Jeong Y, Kim GM, Song YM, Na DL. A Tiny Hippocampal Ischemic Lesion Associated with Transient Global Amnesia. *Cerebrovasc Dis.* 2003;16(4):439-442.
58. Choi SH, Lee BH, Kim S, Hahm DS, Jeong JH, Yoon SJ, Jeong Y, Ha CK, Na DL. Interchanging scores between clinical dementia rating scale and global deteriorating scale. *Alzheimer Dis Assoc Disord.* 2003 Apr-Jun;17(2):98-105.
59. Sohn YH, Jeong Y, Kim HS, Im JH, Kim JS. The brain lesion responsible for parkinsonism after carbon monoxide poisoning. *Arch Neurol.* 2000 Aug;57(8):1214-1218.
60. Jeong Y, Baik EJ, Nam TS, Paik KS. Effect of iontophoretically applied naloxone, picrotoxin and strychnine on dorsal horn neuron activities treated with high frequency conditioning stimulation in cats. *Yonsei Med J.* 1995;36(4):336-347.

61. Nam TS, Baik EJ, Shin YU, Jeong Y, Paik KS. Mechanism of transmission and modulation of renal pain in cats; effect of transcutaneous electrical nerve stimulation on renal pain. *Yonsei Med J.* 1995;36(2):187-201.
62. Baik EJ, Jeong Y, Nam TS, Kim WK, Paik KS. Mechanism of transmission and modulation of renal pain in cats: effect of nucleus raphe magnus stimulation on renal pain. *Yonsei Med J.* 1995;36(4):348-360.
63. Chung SM, Ahn DS, Seok HS, Jeong Y, Kang BS. Effects of vanadate on vascular contractility and membrane potential in the rabbit aorta. *Yonsei Med J.* 1992;33(1):14-23.

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 11th 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
3. Lee J, Kim Y, Jeong Y, Na DL, Lee K-H, Lee D. Pathway-Based Classification of Brain Activities for Alzheimer's Disease Analysis. *Proceedings of the 7th international workshop on Data and text mining in biomedical informatics.* p15-16. San Francisco, USA, Nov. 1, 2013
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
6. Tak S, Jang KE, Jung J, Jang J, Jeong Y, Ye JC. NIRS-SPM: statistical parametric mapping for near infrared spectroscopy. *Proceedings- SPIE The International Society for Optical Engineering.* p6850. Chicago, USA 2008

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.
4. Jeong Y. Function and dysfunction of parietal lobe. *Dementia Neurocog Dis*. 2008;7(Suppl):S30-S41.
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.
6. Park KC, Jeong Y, Kim EJ, Chin J, Kang SJ, Na DL. Clinical and Neuropsychological Findings in Frontotemporal Dementia with Motor Neuron Disease. *Korean Dementia Assoc*. 2003;2(1):36-41.
7. Jeong Y, Kang SJ, Chin J, Na DL. A Woman Who Believes That Her Left Plegic Arm Belongs to Her Baby: A Case Report. *Dementia Neurocog Dis*. 2003;2(1):79-83.
8. Jeong Y, Na DL. PET studies in Alzheimer disease and other degenerative dementias. *Korean J Nucl Med*. 2003;37(1):13-23.
9. Jeong Y, Han DH, Yi HY, Cho SS, Chin J, Kang SJ, Na DL. Neuropsychological and neuroimaging findings of frontal variant of Alzheimer's disease. *J Korean Neurol Assoc*. 2003;21(1):32-40.
10. Kwon JC, Kang KW, Jeong JH, Lee BH, Jeong Y, Cho SS, Kim SE, Na DL. FDG-PET Findings of Semantic Dementia: an Statistical Parametric Mapping Analysis. *Dementia Neurocog Dis*. 2003;2(1):29-35.
11. Jeong Y, Kang S, Na DL. Vascular dementia. *J Korean Acad Rehab Med*. 2002;26(6):639-646.
12. Kwon JC, Jeong Y, Na DL. Dementia with parkinsonism: Corticobasal degeneration. *Dementia Neurocog Dis*. 2002;1(2):83-89.
13. Kang SJ, Jeong Y, Chin J, Yoon SJ, Na DL. Three Cases of Capgras' syndrome in patients with Alzheimer's disease. *Dementia Neurocog Dis*. 2002;1(2):138-142.
14. Cho HI, Jeong Y, Kang SJ, Chin J, Yoon SJ, Seo DW, Na DL. A case of epileptic pseudodementia. *Dementia Neurocog Dis*. 2002;1(2):143-149.
15. Oh JY, Kwon JC, Chin J, Kim JI, Lee JH, Choi KG, Park KD, Jeong Y, Na DL. Retrograde amnesia following anterior thalamic infarction. *J Korean Neurol Assoc*. 2002;20(5):459-468.
16. Jeong Y, Na DL. Bedside evaluation of neurobehavioral disorders. *J Korean Neurol Assoc*. 2002;20(4):325-338.
17. Choi SH, Na DL, Lee BH, Hahm DS, Jeong JH, Jeong Y, Koo EJ, Ha CK, Ahn SS. The validity of the Korean version of global deterioration scale. *J Korean Neurol Assoc*. 2002;20(6):612-617.

18. Moon SY, Jeong Y, Kang SJ, Chin J, Na DL. A case of hepatic encephalopathy presenting bradykinesia and abulia. *Dementia Neurocog Dis.* 2002;1(1):48-52.
19. Jeong Y, Chin J, Kwon JC, Suh YL, Park JM, Kim SE, Na DL. Is brain biopsy rational in shunt operation of normal pressure hydrocephalus in elderly? *J Korean Neurol Assoc.* 2001;19(6):654-659.
20. Oh WS, Kim YD, Seo SW, Jeong Y, Park SA, Heo K, Lee BI. Generalized nonconvulsive status epilepticus in two patients with end-stage renal disease. *J Korean Neurol Assoc.* 2001;19(5):533-536.
21. Sohn YH, Jeong Y, Seo SW, Kim SH, Kim JS. Dihydroergocryptine in the treatment of Parkinson's disease. *Korean J Psychopharmacol.* 2000;11(2):145-150.
22. Jeong Y, Leem JW, Chung SS, Kim YS, Yoon DM, Nam TS, Paik KS. Mechanism of hyperalgesia following cutaneous inflammation by complete Freund adjuvant. *J Korean Pain Soc.* 2000;13(2):164-174.
23. Cho DH, Kim JG, Jeong Y, Lee BH, Kim EY, Kim JG, Cho TS, Kim JS, Moon HH. Neurotoxicity assessment of methamphetamine and cadmium using cultured cells of Long-Evans rats. *Korean J Toxicol.* 1996.12(1):69-79.
24. Cho DH, Jeong Y, Kim JG, Lee BH, Hwang SJ, Lee WY, Kim JG, Cho TS, Kim JS, Moon HH. The neurotoxicological alterations induced by narcotic drugs and industrial chemicals in the rat are associated with quantitative changes of glial fibrillary acidic protein. *Korean J Toxicol.* 1995;11(2):315-327.
25. Baik EJ, Jeong Y, Seok HS, Nam TS, Paik KS. Effect of TENS on acute renal pain in the rat. *Exp Neurobiol.* 2(1):49-55, 1993.

Books & Book Chapters

1. Jeong Y, Jeong J, and Kim DS. *Brain, the Space with 1.4 kilogram.* Science Books, Seoul, 2014, ISBN 978-89-8371-883-9
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
4. Jeong Y, Kim BC. Functional Neuroimaging in Dementia. . In: Korean Dementia Association Eds. *Dementia – A Clinical approach.* 2nd Ed. pp179-198. Academya, Seoul, Korea. 2011
5. Kim EJ, Jeong Y. Functional Images of Alzheimer's Disease. In: Korean Dementia Association Eds. *Dementia – A Clinical approach.* pp303-323. Academya, Seoul, Korea. 2006.

6. Ku BD, Na HR, Jeong Y. Dementia caused by Hydrocephalus. In: Korean Dementia Association Eds. Dementia – A Clinical approach. pp573-600. Academy, Seoul, Korea. 2006.

Presentation and Exhibition:

1. Yoon J, Kee ES, Jeong Y. Effect of endothelial glycocalyx disruption on blood=brain barrier integrity in mice. Presented at 27th International Symposium on Cerebral Blood Flow, Metabolism and Function & 12th International Conference on Quantification of Brain Function with PET, Vancouver, Canada, June 27-30, 2015
2. 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
3. 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
4. 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
5. 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)
6. 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
7. 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)
8. 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)
9. 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)

10. 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)
11. 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)
12. 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)
13. 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)
14. 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)
15. 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)
16. 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)
17. 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)
18. 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
19. 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 (Oral presentation)

20. 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)
21. 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)
22. 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)
23. 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)
24. 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)
25. 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
26. 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)
27. 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)
28. 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)
29. 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)
30. 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)

31. 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)
32. 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)
33. 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)
34. 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)
35. 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)
36. 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)
37. 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.
38. 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.
39. 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.
40. 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.
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42. 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.
43. 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.
44. Han YH, Kim JH, Jeong Y. Study of perivascular drainage in mouse brain and relationship with Alzheimer's disease. Presented at the 15th Annual Meeting of the Korean Society for Brain and Neural Science (CB-8), Seoul, Korea, Sep.25-26. Experimental Neurobiology 21(2, supple2012) p84.
45. Lee YB, Park DH, Jeong Y. Effect of rTMS on Broca's area on verbal memory performance. Presented at the 15th Annual Meeting of the Korean Society for Brain and Neural Science (CB-13), Seoul, Korea, Sep.25-26. Experimental Neurobiology 21(2, supple2012) p87
46. 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
47. 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
48. 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
49. 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.
50. 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)
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52. 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)
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54. 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.
55. 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)
56. 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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62. 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.
63. Jeong Y. Network approach of the brain and neurological disease. J Korean Neurol Assoc. 2011 April;29 (Suppl. 1):13. (Invited talk)
64. 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)
65. 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)
66. 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)

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72. 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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75. Jeong Y, Sohn WS. Default mode network and other intrinsic network mapping using resting fMRI and their implications. J Korean Neurol Assoc. 2009;27(Suppl. 1):13. (Invited talk)
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Other Activities

1. Chair. KAIST Workshop on Neuroimaging and Brain Mapping. Dec. 3 2010 KAIST, Daejeon