Curriculum Vitae

Minyoung Jung, Ph.D.

Nationality : South Korea **Gender :** Male **Language:** English, Japanese, Korean	Korea Brain Research Institute Email: minyoung@kbri.re.ke Tel: 82-53-980-8126

EMPLOYMENTS

• **Principal Investigator** Feb. 2021 –
Korea Brain Research Institute, Brain Development Imaging Lab

• **Senior Assistant professor** Apr 2019 – Jan 2021
Department of Neuropsychiatry, University of Fukui, Fukui, Japan

• **Assistant professor** Sep 2017 – Mar 2019
Research Center for Child Mental Development, University of Fukui, Fukui, Japan

• **Research Fellow** Aug 2015 – Aug 2017
Department of Psychiatry, Harvard medical school (MGH), MA, USA

• **Postdoctoral Fellow (PD)** Apr 2015 – Mar 2016
Japan Society for the Promotion of Science (JSPS), Japan

• **Postdoctoral Fellow (DC2)** Apr 2014 – Mar 2015
Japan Society for the Promotion of Science (JSPS), Japan

• **Teaching Assistant** May 2011 – Dec 2012
Graduate School of Comprehensive Human Sciences, University of Tsukuba, Japan

• **Disability adviser trainee** May 2011 – Mar 2012
Graduate School of Comprehensive Human Sciences, University of Tsukuba, Japan

• **Clinical Psychologist** Mar 2008 – Nov 2009
Central developmental clinic, Daegu, South Korea

• **International trainee** Dec 2006 – Dec 2007
Crotched mountain rehabilitation center, NH, USA

EDUCATION

• **Doctor in Child development** Apr 2013 – Mar 2015
(the early graduation of excellent students)
Osaka University, *Osaka, Japan*

• **Master of Disability science** Apr 2011 – Mar 2013
University of Tsukuba, *Tsukuba, Japan*

• **Bachelor of Disability science** Mar 2004 – Feb 2008

Daegu University, *Daegu, South Korea*

PUBLICATIONS

Journal Articles

First or Corresponding author

1. Cheong Y, Nishitani S, Yu J, Habata K, Kamiya T, Shiotsu D, Omori I.M, Okazawa H, Tomoda A, Kosaka H, **Jung M (corresponding-author)**. The effects of epigenetic age and its acceleration on surface area, cortical thickness, and volume in young adults. *Cerebral Cortex* (IF 4.861), 2022.
2. Habata K, Cheong, Y, Kamiya T, Shiotsu D, Omori I.M, Okazawa H, **Jung M (corresponding-author),** Kosaka H. Relationship between sensory characteristics and cortical thickness/volume in autism spectrum disorders. *Translational Psychiatry* (IF 7.989) , 2021.
3. Shiotsu D, **Jung M (corresponding-author)** * et al. Elucidation of the relationship between sensory processing and white matter using diffusion tensor imaging tractography in young adults. *Scientific Reports* (IF 4.996), 2021.
4. **Jung M**, Takiguchi S, Hamamura S, Mizuno Y, Kosaka H, Tomoda A*. Thalamic volume is related to increased anterior thalamic radiations in children with reactive attachment disorder. *Cerebral Cortex* (IF 4.861), 2020.
5. **Jung M**, Tu Y, Park J, Jorgenson K, Lang C, Song W, Kong J*. Surface-based shared and distinct resting functional connectivity between attention deficit hyperactivity disorder and autism spectrum disorder. *The British Journal of Psychiatry* (IF 10.671), 2019.
6. **Jung M***, Mody M, Fujioka T, Kimura Y, Okazawa H, Kosaka H. Sex Differences in White Matter Pathways Related to Language Ability. *Frontiers in Neuroscience* (IF 5.152), 2019.
7. **Jung M**, Mizuno Y, FujisawaTX, Takiguchi S, Kong J, Kosaka H, Tomoda A*. The effects of COMT polymorphism on cortical thickness and surface area abnormalities in children with ADHD. *Cerebral Cortex Cortex* (IF 4.861), 2019.
8. Zhang B, **Jung M (co-first author)**, Tu Y, Gollub RL, Lang C, Ortiz A, Park J, Wilson G, Gerber J, Mawala I, Chan ST, Wasan AD, Edwards R, Lee J, Napadow V, Kaptchuk T, Rosen B, Kong J*. Identifying brain regions associated with the neuropathology of chronic low back pain: a resting-state amplitude of low-frequency fluctuation study. *The British Journal of Anaesthesia* (IF 11.719), 2019.
9. **Jung M**, Tu Y, Lang CA, Ortiz A, Park J, Jorgenson K, Kong XJ, Kong J*. Decreased structural connectivity and resting-state brain activity in the lateral occipital cortex is associated with social communication deficits in boys with autism spectrum disorder. *NeuroImage* (IF 7.400), 2019.
10. **Jung M**, Mody M, Saito D. N, Tomoda A, Okazawa H, Wada Y, Kosaka H*. Sex differences in the default mode network with regard to autism spectrum traits. *PLoS One* (IF 3.752), 2015.
11. Fujisawa TX, **Jung M (co-first author)**, Kojima M, Saito DN, Kosaka H, Tomoda A*. Neural Basis of Psychological Growth following Adverse Experiences: A Resting-State Functional MRI Study. *PLoS One* (IF 3.752), 2015.
12. **Jung M**, Kosaka H*, Saito D. N, Ishitobi M, Morita T, Inohara K, Asano M, Arai S, Munesue T, Tomoda A, Wada Y, Sadato N, Okazawa H, Iidaka T. Default mode network in young male adults with autism spectrum disorder: relationship with autism spectrum traits. *Molecular Autism* (IF 6.510), 2014.

Co-author

1. Okazawa, H.; Ikawa, M.; **Jung, M** et al. Multimodal analysis using [11C]PiB-PET/MRI for functional evaluation of patients with Alzheimer's disease. EJNMMI Res (IF 3.434), 2020.

2. Tu Y, **Jung M**, Gollub RL, Napadow V, Gerber J, Ortiz A, Lang C, Mawala I, Shen W, Chan ST, Wasan AD, Edwards R, Kaptchuk T, Rosen B, Kong J*. Abnormal medial prefrontal cortex functional connectivity and its association with clinical symptoms in chronic low back pain. *Pain* (IF 7.926), 2019.
3. Mizuno Y, Kagitani-Shimono K, **Jung, M** et al. Structural brain abnormalities in children and adolescents with comorbid autism spectrum disorder and attention-deficit/hyperactivity disorder. *Translational Psychiatry* (IF 7.989), 2019.
4. Wan B, Wang Z, **Jung M**, Lu Y, He H, Chen Q, Jin Y*. Effects of the Co-occurrence of Anxiety and Attention-Deficit/Hyperactivity Disorder on Intrinsic Functional Network Centrality among Children with Autism Spectrum Disorder. *Autism Research* (IF 4.633), 2019.
5. Komeda H, Kosaka H, Fujioka T, **Jung M**, Okazawa H*. Do Individuals With Autism Spectrum Disorders Help Other People With Autism Spectrum Disorders? An Investigation of Empathy and Helping Motivation in Adults With Autism Spectrum Disorder. *Frontiers in Psychiatry* (IF 5.435), 2019.
6. Shen W, Tu Y, Gollub R, Ortiz A, Napadow V, Yu S, Wilson G, Park J, Lang C, **Jung M**, Gerber J, Mawla I, Chan S, Wasan AD, Edwards R, Kaptchuk T, Li S, Rosen B, Kong J*. Visual network alterations in brain functional connectivity in chronic low back pain: A resting state functional connectivity and machine learning study. *NeuroImage:clinical* (IF 4.891), 2019.
7. Kosaka H*, Fujioka T, **Jung M**. Symptoms in individuals with adult-onset ADHD are masked during childhood. *European archives of psychiatry and clinical neuroscience.* (IF 5.760), 2018.
8. Wang Y, Fang J, Song P, Bao Y, Song W, Liu J, Lang C, Jorgenson K, **Jung M**, Shen D, Li S, Sun R, Ding X, Yang J, Meng X, Wang N, Yan Z, Yan Y, Kong Q, Dong Y, Cui F, Tu Y, Cui B, Kong J*. The Dysfunction of the Cerebellum and Its Cerebellum-Reward-Sensorimotor Loops in Chronic Spontaneous Urticaria. *Cerebellum.* (IF 3.648), 2018.
9. Mizuno Y, **Jung M**, Fujisawa TX, Takiguchi S, Shimada K, Saito DN, Kosaka H, Tomoda A*. Catechol-O-methyltransferase polymorphism is associated with the cortico-cerebellar functional connectivity of executive function in children with attention-deficit/hyperactivity disorder. *Scientific Reports* (IF 4.996), 2017.
10. Fujioka T, Inohara K, Okamoto Y, Masuya Y, Ishitobi M, Saito DN, **Jung M**, Arai S, Matsumura. Y, Fujisawa TX, Narita K, Suzuki K, Tsuchiya KJ, Mori N, Katayama T, Sato M, Munesue T, Okazawa H, Tomoda A, Wada Y, Kosaka H*. Gazefinder as a clinical supplementary tool for discriminating between autism spectrum disorder and typical development in male adolescents and adults. *Molecular Autism* (IF 6.510), 2016.
11. Ishibashi M*, Uchiumi C, **Jung M**, Aizawa N, Makita K, Nakamura Y, Saito DN. Differences in Brain Hemodynamics in Response to Achromatic and Chromatic Cards of the Rorschach: A fMRI Study. *Rorschachiana Journal of the International Society for the Rorschach*, 2016.
12. Kosaka H*, Okamoto Y, Munesue T, Yamasue H, Inohara K, Fujioka T, Anme T, Orisaka M, Ishitobi M, **Jung M**, Fujisawa TX, Tanaka S, Arai S, Asano M, Saito DN, Sadato N, Tomoda A, Omori M, Sato M, Okazawa H, Higashida H, Wada Y. Oxytocin efficacy is modulated by dosage and oxytocin receptor genotype in young adults with high-functioning autism: A 24-week randomized clinical trial. *Translational Psychiatry* (IF 7.989), 2016.
13. Arai S, Okamoto Y, Fujioka T, Inohara K, Ishitobi M, Matusmura Y, **Jung M**, Kawamura K, Takiguchi S, Tomoda A, Wada Y, Hiratani M, Matsuura N, Kosaka H*. Altered frontal pole development affects self-generated spatial working memory in ADHD. *Brain & Development* (IF 2.272), 2016.
14. Takiguchi S, Fujisawa TX, Mizushima S, Saito DN, Okamoto Y, Shimada K, Koizumi M, Kumazaki H, **Jung M**, Kosaka H, Hiratani M, Ohshima Y, Teicher MH, Tomoda A*. Ventral striatum dysfunction in children and adolescents with reactive attachment disorder: A functional MRI Study. *The British Journal Psychiatry Open*, 2015.
15. Komeda H*, Kosaka H, Saito D. N, Mano Y, **Jung M**, Fujii T, Fujii T, Yanaka HT, Munesue T, Ishitobi M, Sato M, Okazawa H. Autistic empathy toward autistic others. *Social cognitive and affective*

neuroscience (IF 4.235), 2015.

Patent

1. Kosaka H, **Jung M**. Patent No. 6566471 (JP) Medical diagnosis system for resting state fMRI

Selected conference proceedings (The total number of conference proceedings : 30)

1. **Jung M**, Kong J, Kosaka H. Brain science approach for Autism spectrum disorder. 2019 Spring KSSE Conference, Seoul, Korea, 2019.06.
2. **Jung M**, Fujioka T, Kosaka H.Structural connectivity and resting-state brain activity of the lateral occipital cortex impact social communication deficit in boys with autism spectrum disorder. The 7th World Congress of Asian Psychiatry 2019, Sydney Australia, 2019.02.
3. **Jung M**, Mizuno Y, Fujisawa TX, Takiguchi S, Kosaka H, Tomoda A. Machine learning and imaging genetics approach to ADHD. The 7th World Congress of Asian Psychiatry 2019, Sydney Australia, 2019.02.
4. **Jung M**, Kosaka H, Kong J. Surfaced based shared and distinct resting functional connectivity between attention-deficit/hyperactivity disorder and autism spectrum disorder. International Autism Conference Tokyo 2017, Tokyo, Japan., 2017.10.
5. **Jung M**, Kosaka H, Kong J. Structural connectivity and resting-state brain activity of the lateral occipital cortex impact social communication deficit in boys with autism spectrum disorder International Autism Conference Tokyo 2017, Tokyo, Japan., 2017.10.
6. **Jung M**, Ortiz A, Jorgenson K, Park J, Kong J. Spontaneous oscillations in low back pain patients. Society for Neuroscience, San Diego, USA, 2016.10.
7. **Jung M**, Saito DN, Tomoda A, Okazawa H, Wada Y, Kosaka H. Male brain is more affected by autism spectrum traits than female. The Organization for Human Brain Mapping, Hawaii, USA, 2015.6.
8. **Jung M**, Saito DN, Sasaki A, Munesue T, Okazawa H, Kosaka. Resting State Functional Connectivity of Social Brain Regions in Autism Spectrum Disorder: Correlated with Social Symptom Severity in ASD. International Meeting for Autism Research, Salt lake, USA, 2015. 5.
9. **Jung M**, Kosaka H, Saito DN, Ishitobi M, Munesue T, Tomoda A, Wada Y, Okazawa H, Iidaka T. Default mode network in young male adults with autism spectrum disorder: relationship with autism spectrum traits. The 20th ISPCAN International Congress, Hiroshima, Japan, 2014.9.
10. **Jung M**, Saito DN, Ishitobi M, Morita T, Inohara K, Sasaki A, Arai S, Masuya Y, Fujioka T, Okamoto Y, Munesue T, Tomoda A, Sadato DN, Okazawa H, Iidaka T, Wada Y, Kosaka H Aberrant resting state functional connectivities with amygdala in autism spectrum disorder. Neuroscience 2014.. Kanagawa, Japan, 2014.9.
11. **Jung M**, Kosaka H, Saito DN, Ishitobi M, Morita T, Inohara K, Sasaki A, Asano M, Arai S, Masuya Y, Munesue T, Tomoda A, Wada Y, Sadato N, Okazawa H, Iidaka T. Functional connectivity in default mode network predicts autism spectrum traits? . The Organization for Human Brain Mapping, Hamburg, Germany, 2014.6.

HONORS and AWARDS

Leave a Nest Taisho Pharmaceutical company Health care・Beauty care award Jan 2020

NYC tDCS (transcranial direct current stimulation) fellowship, Medical society of the state of New York Nov 2019

University of Fukui Best Paper Award 2018 Aug 2019

University of Fukui Best Paper Award 2018 Aug 2019

University of Fukui Best Paper Award 2015 Aug 2016

University of Fukui Best Paper Award 2014 Aug 2015

International Meeting for Autism Research Travel Award May 2015

National Institute for Physiological Sciences Abstract Travel Award Nov 2014

Otsuka Toshimi Scholarship Foundation Scholarship Apr 2013

Mitsubishi Corporation International Scholarship Apr 2012

Japan Student Services Organization (JASSO) Award Apr 2011

High Academic Achievement Award Feb 2009
Daegu University, Daegu, South Korea

RESEARCH GRANTS

Principal Investigator

NIA, PI, 1,700,000,000 won Jun 2022 – present
Establishment of child-adolescent psychological assessment and brain imaging data

NRF, PI, 151,726,000 won Jun 2022 – present
Multmodal-genetic brain imaging for assesment development of developmental disorder

Ministry of Science and ICT, PI, 150,000,000 won Jan 2022 – present
"Human gene - brain fusion brain imaging research for clinical application"

KAKENHI Grant-in-Aid for Scientific Research (B), PI, ¥15,600,000 Apr 2020 – present
"Development of sensory assessment for developmental disorders"

Ministry of Science and ICT, PI, 170,000,000 won Apr 2021 – Dec 2021
"Human gene - brain fusion brain imaging research for pre-clinical application"

Meiji Yasuda Mental Health Foundation, PI, ¥500,000 Jul 2019 – Jun 2020
"Sensory assessment development using AI and Brain Science"

KAKENHI Grant-in-Aid for Early-Career, PI, ¥4,290,000 Apr 2018 – Mar 2020
"Gender differences in autism spectrum disorders: clinical application for diagnosis"

Center of Developmental Education and Research, PI, ¥500,000 Apr 2018 – Mar 2019
"Emotion sharing and cognition in autism spectrum disorder"

Grant-in-Aid for JSPS Fellows, PI, ¥2,500,000 Apr 2014 – Mar 2016
"Neural-mechanism of emotion cognition for autism spectrum disorder"

Co-Principal Investigator

Daegu Technopark, Co-PI, 76,000,000 won Jun 2022 – present
"ADHD digital medicine for clinical application with fNIRS"

Ministry of Science and ICT, Co-PI, 40,000,000 won Jan 2022 – present

"Development of core platform technologies to control affective disorders utilizing molecular connectome based on macro-meso neural network"

KAKENHI Grant-in-Aid for Scientific Research (B), Co-PI, ¥14,560,000 Apr 2020 – present
"Physical pain and pain empathy for autism spectrum disorder"

KAKENHI Grant-in-Aid for Scientific Research (C), Co-PI, ¥4,160,000 Apr 2020 – present
"Effects of default mode network for treatment of transcranial direct current stimulation in autism spectrum disorder"

KAKENHI Grant-in-Aid for Scientific Research (C), Co-PI, ¥4,420,000 Apr 2019 – present
"Life environment impact of cognitive function and social cognition in children"

PROFESSIONAL AFFILIATIONS

2019 ~ present	Japanese Psychological Association
2019 ~ present	Japanese Society for Cognitive Psychology
2019 ~ present	Japanese Psychological Association
2019 ~ present	Korean Association for Behavior Analysis
2018 ~ present	Korean Society of Emotional and Behavioral Disorder
2012 ~ present	International Society for Autism Research
2008 ~ present	Korean Association for Rehabilitation Psychology

PROFESSIONAL ACTIVITY

Peer Review

- The British journal of psychiatry
- Molecular autism
- Neuroimage
- Cerebral cortex
- Neuroimage:clinical
- SCAN
- BMC psychiatry
- PLoS One

Research related license

- Autism Diagnostic Interview-Revised (ADI-R) clinical license by Robert Joseph, Boston University May 2013
- ADI-R Research license by Robert Joseph, Boston University May 2014