

Biological Sketch

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Educations:

Visiting Professor, Yale University School of Medicine, Departments of Neurology and
 Diagnostic Radiology, New Haven, CT, USA / 2010-11
 Clinical Fellow, NINDS, Clinical Epilepsy Section, Bethesda, MD, USA / 2002-03
 Postdoctoral Fellow, Johns Hopkins Univ. School of Medicine, Baltimore, MD, USA / 2001-02
 Ph.D. (Neurophysiology), Korea Univ. Graduate School of Medicine, Seoul, South Korea /
 1996-99
 M.S. (Neuropathology), Ewha Womans Univ. Graduate School of Medicine, South Korea /
 1994-96
 M.D./B.S. in Medicine, Ewha Womans Univ. School of Medicine, Seoul, South Korea / 1987-93

Academic and Professional Experiences:

2021~present: TF Member, Virtual Integration Task Force, Organization of Human Mapping (OHBM)
 2020~present: Director, Ewha Medi-Tech Research Institute, Ewha Womans University, Seoul, Korea
 2019~present: Chair, Academics Committee, Korean Neurological Association (KNA), Seoul, Korea
 2019~present: Chair, Academic Committee & Finance Committee, Society for Korean Human Brain
 Mapping (KHBM), Seoul, Korea
 2018~20: Editor-in-Chief, Journal of Epilepsy Research, Published by Korean Epilepsy Society
 2017~21: TF Member, Diversity & Inclusivity Committee, Organization of Human Mapping (OHBM)
 2015~17: TF Member, Education Committee on Neuropsychiatry, International League Against Epilepsy
 (ILAE)
 2015~present: Chair, Department of Neurology, Ewha Womans University Sch of Med/Mogdong Hospital,
 Seoul, Korea
 2012~present: Professor of Neurology Department, Director of Epilepsy & Sleep Center, Ewha Womans
 University School of Medicine, Seoul, Korea
 2003~12: Assistant / Associate Professor, Neurology Department, Ewha Womans University School of
 Medicine, Seoul, Korea
 2002~03: Clinical fellow & special volunteer, Clinical epilepsy section, NINDS, Bethesda, MD
 2001~02: Postdoctoral fellow, Epilepsy center, Department of Neurology, Johns Hopkins University
 School of Medicine, Baltimore, MD
 1998~2000: Clinical fellow, Epilepsy and Sleep disorder program, Department of Neurology, Samsung
 Medical Center, Sungkyunkwan University School of Medicine, Seoul, Korea
 1994~98: Resident, Department of Neurology, Ewha Womans University Hospital
 1993~94: Intern, Ewha Womans University Hospital

Title of dissertation:

Ph.D. thesis: Role of substance P on electrophysiological mechanism of circadian rhythm in suprachiasmatic nucleus of rat

Publications for International Scientific Journals (Selected)

- Kim YG, Kim SE, Lee JH, Hwang SE, Yoo SS, **Lee HW**. Neuromodulation using Transcranial Focused Ultrasound on the Bilateral Medial Prefrontal Cortex. *J. Clin. Med.* **2022**, in revision.
- Kim SE, Kim S, Kim HJ, Kim REY, Kim SA, Shin C, **Lee HW**. CLOCK genetic variants are associated with age-related changes in sleep duration and brain volume. *J. Gerontol. A. Biol. Sci. Med. Sci. Series A* **2022**;glab365. <https://doi.org/10.1093/gerona/glab365>.
- Yoo C, **Lee HW**, Kang JW. Transferring structured knowledge in unsupervised domain adaptation of a sleep staging network. *IEEE Journal of Biomedical and Health Informatics* **2022**;26(3):1273~1284.
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- Kim REY, Kim HJ, Kim S, Abbott RD, Thomas RJ, Yun CH, **Lee HW**, Shin C. A longitudinal observational population-based study of brain volume associated with change in sleep timing from middle to late life. *Sleep* **2021**;44(4), zsa223. doi: 10.1093/sleep/zsa223.
- Hwang S, Park CH, Kim REY, Kim HJ, Choi YS, Kim SA, Yoo JH, Chung KW, Choi BO, **Lee HW**. Cerebellar White Matter Abnormalities in Charcot–Marie–Tooth Disease: A Combined Volumetry and Diffusion Tensor Imaging Analysis. *J. Clin. Med.* **2021**, *10*, 4945.
- Choi GS, Yun JY, Hwang S, Kim SE, Kim JY, Im CH, **Lee HW**. Can corticomuscular coherence differentiate between REM sleep behavior disorder with or without Parkinsonism? *J. Clin. Med.* **2021**, *10*, 5585.
- Yoo S, Won KS, Kim KT, **Lee HW**, Cho YW. Cardiac autonomic dysfunction is associated with severity of REM sleep without atonia in isolated REM sleep behavior disorder. *J. Clin. Med.* **2021**, *10*, 5414.
- Tzovara A, Amarreh I, Borgesani V, Chakravarty MM, DuPre E, Grefkes C, Haugg A, Jollans L, **Lee HW**, Newman SD, Olsen RK, Ratnanater JT, Rippon G, Uddin LQ, Bringas Vega ML, Veldsman M, White T, Badhwar A. Embracing diversity and inclusivity in an academic setting: Insights from the Organization for Human Brain Mapping. *Neuroimage* **2021**;229:117742. <https://doi.org/10.1016/j.neuroimage.2021.117742>.
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- Park YW, Chi YS, Kim SE, Choi D, Han K, Kim H, Ahn SS, Kim SA, Kim HJ, Lee SK, **Lee HW**. Radiomics features of hippocampal regions in magnetic resonance imaging can differentiate medial temporal lobe epilepsy patients from healthy controls. *Scientific Reports* **2020**;10:10567/ <https://doi.org/10.1938/s41598-020-76283-z>.
- Ahn S, Kang CW, **Lee HW**. Artificial Intelligence and Computational Approaches for Epilepsy. *J Epi Res* **2020**;10(1):8-17.
- Kim HJ, Kim J, Lee S, Kim B, Kwon E, Lee JE, Chun MY, Lee CY, Boulter A, Oh S, **Lee HW**. A Double-Blind, Randomized, Placebo-Controlled Crossover Clinical Study of the Effects of Alpha-s1 Casein Hydrolysate on Sleep Disturbance. *Nutrients* **2019**, *11*(7); 1466. doi: 10.3390/nu11071466. PubMed PMID: 31252661.
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- Park CH, Choi YS, Kim HJ, Chung HK, Jung AR, Yoo JH, **Lee HW**. Interactive effects of seizure frequency and lateralization on intratemporal effective connectivity in temporal lobe epilepsy. *Epilepsia* **2018**;59(1):215-25.

- Moon J, Choi KH, Park JH, Song TJ, Choi YS, Kim JH, Kim HJ, **Lee HW**. Sympathetic overactivity based on heart-rate variability in patients with obstructive sleep apnea and cerebral small-vessel disease. *J Clin Neurol* 2018;14(3):310-319.
- Kim HJ, Lee JH, Park CH, Hong HS, Choi YS, Yoo JH, **Lee HW**. Role of Language-Related Functional Connectivity in Patients with Benign Childhood Epilepsy with Centrottemporal Spikes. *J Clin Neurol* 2018;14(1):48-57.
- Lee BI, No SK, Yi SD, **Lee HW**, Kim OJ, Kim SH, Kim MK, Kim SE, Kim YS, Kim JM, Lee SJ, Shin DJ, Park SP, Kim YI, Heo K, Cho YW, Cho YJ, Kim YN. Unblinded, randomized multicenter trial comparing lamotrigine and valproate combination with controlled-release carbamazepine monotherapy as initial drug regimen in untreated epilepsy. *Seizure* 2018;55:17-24.
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