

Chae Young Kim

March 17th, 1987, Seoul, South Korea

Education

2007 – Feb. 2014	Medical course, Oriental medical doctor (License No. 23450) Department of Oriental medicine, School of Medicine, Gachon University
Feb. 2014 - Aug. 2014	Internship Department of Neurophysiology College of Medicine, Seoul National University
Sep. 2014 - Present	Master & Ph.D integrated course Department of Neurophysiology College of Medicine, Seoul National University
Oct. 2016 – April 2018	International scholar Department of Neurophysiology College of Medicine, Seoul National University In association with NERF, KU Leuven (Belgium)

Conference &

Courses

- (2018)** 11th FENS forum of Neuro Science, Germany
- (2018)** Cell-NERF Symposium: Neurotechnologies, Belgium
- (2019)** Neuroimaging techniques in Max Planck Florida Institute, USA
- (2019)** Sunposium 2019, USA
- (2020)** 12th FENS Virtual forum of Neuro Science

Award and Honors

Global Ph.D Fellowship (2015-2020)

(National Research Foundation of Korea & Ministry of Education,
Science and Technology, Korea)

Methods and techniques

Mini-endoscope(miniscope) imaging from freely behaving animal
Multi-electrode array recording
Silicon probe recording
CAD design (Solidworks) for 3D printing

PET imaging (Positron Emission tomography)
Behavioral tests for rodents
Immunohistochemistry

Research interests

Memory process in hippocampal complex
Chronic pain pathway

Analytical skills

Data analysis : Python
Statistical Parametric Mapping 8 (SPM8)

Publication

1st author (co-1st)

Michon, F., Sun, JJ., **Kim, CY.**, Ciliberti, D., Kloosterman, F., 2019. Post-learning hippocampal replay selectively reinforces spatial memory for highly rewarded locations. Current Biology (2019 April)

1st author (co-1st)

Chung, G., **Kim, CY.**, Yun, YC., Yoon, SH., Kim, MH., Kim, YK., Kim, SJ., 2017. Upregulation of prefrontal metabotropic glutamate receptor 5 mediates neuropathic pain and negative mood symptoms after spinal nerve injury in rats. Scientific reports 7, 9743(2017)

2nd author

Chung, G., **Kim, CY.**, Kim, SJ., 2018. Decoding neuropathic pain severity using distinct patterns of corticolimbic metabotropic

glutamate receptor 5. Neuroimage. 2018 Jul 7 pii: S1053-8119(18)30628-1. doi: 10.1016

3rd author

Michon, F., Sun, JJ., **Kim, CY.**, Kloosterman, F., 2020. A dual reward-place association task to study the preferential retention of relevant memories in rats. Front. Behav. Neurosci., 14 May 2020. <https://doi.org/10.3389/fnbeh.2020.00069>

3rd author

Chung, G., Shim, HG., **Kim, CY.**, Ryu, HH., Jang, DC., Kim, SH., LEE, J., Kim, CE., Kim, YK., LEE, YS., Kim, J., Kim, SK., Paul F. Worley., Kim, SJ., 2020. Persistent activity of metabotropic glutamate receptor 5 in the periaqueductal gray constrains emergence of chronic neuropathic pain. Current Biology (6 September 2020).

Patent

Method for assessment of pain intensity

(Issued Aug 30 2018, Republic of Korea)

License

Doctor of Korean Medicine M.D. (DKM)

The Association of Korean Medicine (Issued Feb 2014, No Expiration Date)

Review experience

Neural plasticity (Active reviewer)

Language

Korean : Native

English : Fluent

French : Intermediate