

SANG SEONG KIM, Ph.D.

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PERSONAL INFORMATION:

Citizenship: Republic of Korea
Date of Birth: February 1, 1978
Gender: Male

EDUCATION:

1996 – 2001: B. S. in Pharmacy, College of Pharmacy, Seoul National University, Seoul, Korea

2001 – Feb.2006: Ph. D. in Neuroscience, Interdisciplinary Program of Brain Science, Seoul National University, Seoul, Korea.

Dissertation Chair: Uhtaek Oh, Ph.D.

Course Highlights: Interdisciplinary Program in Brain Science Ionic Channels of Excitable Membranes; Biochemical Pharmacology Immunology; Molecular Biology, Machine Learning

PROFESSIONAL EXPERIENCE:

2001 – 2002 Teaching Assistant in Department of Pharmacology, College of Pharmacy, Seoul National University, Seoul, Korea

2001 – 2005 Research Scientist, Research Center for New Drug Development, An Engineering Research Center Sponsored by Korea Science and Engineering Foundation, Seoul National University, Seoul, Korea

2001–2005 Research Fellow, Sensory Research Center, National Creative Research Initiatives Sponsored by Ministry of Science and Technology, College of Pharmacy, Seoul National University, Seoul, Korea

2006.9 – 2012.7: Postdoctoral Research Associate, Stowers Institute for Biomedical Research. DR. Ron Yu lab

2012.9-2017: Assistant professor at department of pharmacy in Hanyang University

2018- now: Associate professor at department of pharmacy in Hanyang University

RESEARCH INTERESTS:

- Translational research for ALS patient-derived neuron characterization (Korea NIH grant)
- Understanding of hippocampal circuit alteration in prion peptide presentation (National Research Foundation of Korea grant)

SOCIETY MEMBERSHIPS:

Society for Neuroscience, USA
Chemical senses, USA
The Korean Physiological Society
The Korean Society for Brain and Neuroscience
The Pharmaceutical Society of Korea
Korean society of chemical senses

PUBLICATIONS:

Choi GY, Kim HB, Hwang ES, Lee S, Kim M, Choi JY, Lee SO, Kim SS, Park JH (2017)
Curcumin Alters Neural Plasticity and Viability of Intact Hippocampal Circuits and Attenuates Behavioral Despair and COX-2 Expression in Chronically Stressed Rats. *Mediators Inflamm.*

Hwang ES, Kim HB, Choi GY, Lee S, Lee SO, Kim S, Park JH. (2016)
Acute rosmarinic acid treatment enhances long-term potentiation, BDNF and GluR-2 protein expression, and cell survival rate against scopolamine challenge in rat organotypic hippocampal slice cultures. *Biochem Biophys Res Commun.*

Kim SS. (2016)
Manipulation of P2X Receptor Activities by Light Stimulation. *Mediators Inflamm.*

Lee GH, Kim SS. (2016)
Therapeutic Strategies for Neuropathic Pain: Potential Application of Pharmacosynthetics and Optogenetics. *Mediators Inflamm.*

Kim S, Ma L, Unruh J, McKinney S, Yu CR. (2015)
Intracellular chloride concentration of the mouse vomeronasal neuron. *BMC Neurosci.*

Jo A, Ham S, Lee GH, Lee YI, Kim S, Lee YS, Shin JH, Lee Y. (2015)
Efficient Mitochondrial Genome Editing by CRISPR/Cas9. *Biomed Res Int.*

Kim S, Hwang SW (2013)
Emerging roles of TRPA1 in sensation of oxidative stress and its implications in defense and danger. *Arch Pharm Res*

SangSeong Kim, Limei Ma, Michelle M. Kim, Chris T. Bond, John P. Adelman and C. Ron Yu (2012)
Paradoxical Contribution of SK3 and GIRK Channels to the Activation of Mouse Vomeronasal Organ. *Nature Neuroscience*

SangSeong Kim, Limei Ma & C. Ron Yu (2011)
Requirement of calcium-activated chloride channels in the activation of mouse vomeronasal neurons. *Nature Communications*

Limei Ma, Sachiko Haga-Yamanaka, Qingfeng Elden Yu, Qiang Qiu, Sangseong Kim, C. Ron Yu (2011)
Imaging neuronal responses and batch analyses of response profiles in slice preparations of vomeronasal organ expressing a genetically encoded calcium sensor. *JOVE*

He J, Ma L, Kim S, Schwartz J, Santilli M, Wood C, Durmin MH, Yu CR. (2010)

Distinct signals conveyed by pheromone concentrations to the mouse vomeronasal organ. *Journal of Neuroscience*

Jie He, Limei Ma, SangSeong Kim, Junichi Nakai, C. Ron Yu (2008) Encoding Gender and Individual Information in the Mouse Vomeronasal Organ, *science*

Hawon Cho, Jae Yeon Koo, Sangsung Kim, Sung Pyo Park, Young Duk Yang, and Uhtaek Oh (2006) A novel mechanosensitive channel identified in sensory neurons. *European Journal of Neuroscience*

Sangsung Kim, Changjoong Kang, Chan Young Shin, Sun Wook Hwang, Young Duk Yang, Won Sik Shim, Min-Young Park, Eunhee Kim, Misook Kim, Byung-Moon Kim, Hawon Cho, Youngki Shin, and Uhtaek Oh (2006)

TRPV1 recapitulates native capsaicin receptor in sensory neurons in association with Fas-associated factor 1. *Journal of Neuroscience*