Curriculum Vitae Ryu, Seung Hyun

Seung Hyun Ryu

Graduate Student, Interdisciplinary Program in Neuroscience Seoul National University

CONTACT INFORMATION

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EDUCATION

2021 - 2023	M.S. in Interdisciplinary Program in Neuroscience,
	Seoul National University (Advisor: Dr. Sunghoe Chang)
2016 - 2020	B.E. in Department of Control and Instrumentation Engineering and
	Department of Biomedical Engineering (double major), Korea University

PROFESSIONAL EXPERIENCE

2021 - 2023	Graduate student, Interdisciplinary Program in Neuroscience M.S. Program,
	Seoul National University
2020 - 2021	Researcher, Department of Physiology and Biomedical Sciences,
	Seoul National University College of Medicine

HONORS & AWARDS

2022 - 2023	Research Grant of Basic Science Research Program,
	Seoul National University
2018	Poster Award, Annual Capstone Design Conference, Korea University
	(Poster: Image Based Doorlock System)
2017	Poster Award, Annual Academic Conference on Electro-Mechanical
	Systems Engineering, Korea University
	(Poster: Self Healthcare Device Using EOG Measurement)
2016	Poster Award, Annual Academic Conference on Control and Instrumentation
	Engineering, Korea University
	(Poster: Sound Activated Multi Color LED Cube)
2016	Academic Excellence Award, Korea University

PUBLICATIONS

- 3. Lee YH, Suh BK, Lee U, <u>Ryu SH</u>, Shin SR, Chang S, Park SK, Chung KC. DYRK3 phosphorylates SNAPIN to regulate axonal retrograde transport and neurotransmitter release. *Cell Death Discov.* 8, 503 (2022).
- 2. Lee U, <u>Ryu SH</u>, Chang S. SCAMP5 mediates activity-dependent enhancement of NHE6 recruitment to synaptic vesicles during synaptic plasticity. *Mol Brain*. 14(1):47 (2021).
- 1. Lee U, Choi C, <u>Ryu SH</u>, Park D, Lee S-E, Kim K, Kim Y, Chang S. SCAMP5 plays a critical role in axonal trafficking and synaptic localization of NHE6 to adjust quantal size at glutamatergic synapses. *Proc Natl Acad Sci U S A*. 118(82):1–81 (2021).

POSTER PRESENTATIONS

4. Lee U, Ryu SH, Lee J, Chang S. Presynaptic localization of ATG-9 is regulated by

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SCAMP5 associated with AP-4 complex.

The Federation of European Neuroscience Societies Forum 2022. July 9th, 2022

- 3. <u>Ryu SH</u>, Lee U, Lee J, Kim K, Chang S. TurboID-based proximity labelling reveals different interaction proteomes between SCAMP5 WT and G180W mutant The 25th Annual Meeting of the Korean Society for Brain and Neural Sciences. May 19th, 2022
- 2. Lee U, <u>Ryu SH</u>, Lee J, Chang S. Presynaptic localization of ATG-9 for presynaptic autophagy is regulated by the interaction between SCAMP5 and AP-4 complex. The 25th Annual Meeting of the Korean Society for Brain and Neural Sciences. May 19th, 2022
- 1. Lee U, <u>Ryu SH</u>, Chang S. SCAMP5 mediates activity-dependent enhancement of NHE6 recruitment to synaptic vesicles during synaptic plasticity.
- The 24th Annual Meeting of the Korean Society for Brain and Neural Sciences. May 20th, 2021

TEACHING

- 2022 Teaching Assistant. Principles of Neuroscience 2, Seoul National University
- 2022 Teaching Assistant. Seminars in Neuroscience 2, Seoul National University
- 2022 Teaching Assistant. Principles of Neuroscience 1, Seoul National University
- 2022 Teaching Assistant. Seminars in Neuroscience 1, Seoul National University
- 2017 Teaching Assistant. General Physics, Korea University