

# Stanford

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## Yohei Shibuya

Postdoctoral Research Fellow, Stem Cell Biology and Regenerative Medicine

### Bio

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#### HONORS AND AWARDS

- The E. Lucile Smith Award for Excellence in Biochemistry, Department of Biochemistry, The Geisel School of Medicine at Dartmouth (2015)
- LLHF Postdoctoral Fellowship, Larry L. Hillblom Foundation (2017-2020)
- The Charles B. Carrington Memorial Poster Award, Department of Pathology, Stanford University School of Medicine (2018)
- Keystone Symposia scholarship, Keystone Symposia (2019)
- The Helena Anna Henzl-Gabor Travel Fellowship, Stanford University (2019)

#### PROFESSIONAL EDUCATION

- Bachelor of Science, Kyoto University (2005)
- Master of Science, Kyoto University (2007)
- Doctor of Philosophy, Dartmouth College (2015)

#### STANFORD ADVISORS

- Marius Wernig, Postdoctoral Faculty Sponsor

#### PATENTS

- Ta-Yuan Chang, Catherine CY Chang, Yohei Shibuya, Elena Bryleva, Stephanie Murphy, Maximillian A Rogers. "United States Patent 9149492 Method for selectively inhibiting ACAT1 in the treatment of alzheimer's disease", Trustees of Dartmouth College, Oct 6, 2015

### Publications

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#### PUBLICATIONS

- **Direct Reprogramming of Human Neurons Identifies MARCKSL1 as a Pathogenic Mediator of Valproic Acid-Induced Teratogenicity.** *Cell stem cell*  
Chanda, S. n., Ang, C. E., Lee, Q. Y., Ghebrial, M. n., Haag, D. n., Shibuya, Y. n., Wernig, M. n., Südhof, T. C.  
2019
- **Heterogeneity in old fibroblasts is linked to variability in reprogramming and wound healing.** *Nature*  
Mahmoudi, S. n., Mancini, E. n., Xu, L. n., Moore, A. n., Jahanbani, F. n., Hebestreit, K. n., Srinivasan, R. n., Li, X. n., Devarajan, K. n., Prélot, L. n., Ang, C. E., Shibuya, Y. n., Benayoun, et al  
2019; 574 (7779): 553–58
- **Acyl-coenzyme A:cholesterol acyltransferase 1 blockage enhances autophagy in the neurons of triple transgenic Alzheimer's disease mouse and reduces human P301L-tau content at the presymptomatic stage** *NEUROBIOLOGY OF AGING*  
Shibuya, Y., Niu, Z., Bryleva, E. Y., Harris, B. T., Murphy, S. R., Kheirollah, A., Bowen, Z. D., Chang, C. C., Chang, T.  
2015; 36 (7): 2248-2259
- **ACAT1/SOAT1 as a therapeutic target for Alzheimer's disease** *FUTURE MEDICINAL CHEMISTRY*  
Shibuya, Y., Chang, C. C., Chang, T.  
2015; 7 (18): 2451-2467

- **Inhibiting ACAT1/SOAT1 in Microglia Stimulates Autophagy-Mediated Lysosomal Proteolysis and Increases A beta 1-42 Clearance** *JOURNAL OF NEUROSCIENCE*  
Shibuya, Y., Chang, C. C., Huang, L., Bryleva, E. Y., Chang, T.  
2014; 34 (43): 14484-14501
- **Transport of LDL-derived cholesterol from the NPC1 compartment to the ER involves the trans-Golgi network and the SNARE protein complex** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Urano, Y., Watanabe, H., Murphy, S. R., Shibuya, Y., Geng, Y., Peden, A. A., Chang, C. C., Chang, T. Y.  
2008; 105 (43): 16513-16518