

Stanford



Ji-Hye Jung

Postdoctoral Research Fellow, Cardiovascular Medicine

Bio

HONORS AND AWARDS

- 2019 AHA Scientific Session Travel Grant Award, American Heart Association (2019)
- Best Poster Award, Stanford-Penn Cardiovascular Symposium (2019)
- Best Poster Awards, 4th Stanford Drug Discovery Symposium (2019)
- Finalist, 2018 Mervin L. Marcus Young Investigator Award, American Heart Association (2018)
- AHA Postdoctoral Fellowship, American Heart Association (2018-2020)
- Stanford Cardiovascular Institute (CVI) Travel Award, Stanford University (2017)
- Best Poster Award, The Korean Society of Blood and Marrow Transplantation (2015)
- Excellent Poster Award, The International Symposium for Biomedical Sciences (2015)
- Best Paper of the Year Award, Korea University (2014)
- The KU-Research Festival Poster Award, Korea University Medical center (2013)

PROFESSIONAL EDUCATION

- Doctor of Philosophy, Korea University (2015)

STANFORD ADVISORS

- Phillip Yang, Postdoctoral Faculty Sponsor
- Phillip Yang, Postdoctoral Research Mentor

PATENTS

- Byung Soo Kim, Ji Hye Jung, Yong Park.. "South Korea Patent KR Patent 10-1766372 Method for inducing ectodermal differentiation of embryoid bodies derived from human pluripotent stem cells by CXCR2 stimulation", KOREA UNIVERSITY RESEARCH AND BUSINESS FOUNDATION, Aug 2, 2017
- Byung Soo Kim, Ji Hye Jung, Yong Park.. "South Korea Patent KR Patent 10-1756337 Method for inducing endodermal and mesodermal differentiation from human pluripotent stem cells by CXCR2 suppression", KOREA UNIVERSITY RESEARCH AND BUSINESS FOUNDATION, Jul 4, 2017
- Ji Hye Jung, Byung Soo Kim, Yong Park. "United States Patent 9580682 Method for inducing endodermal and mesodermal differentiation from human pluripotent stem cells by CXCR2 suppression", KOREA UNIVERSITY RESEARCH AND BUSINESS FOUNDATION, Feb 28, 2017
- Ji Hye Jung, Byung Soo Kim, Yong Park, Seung Jin Lee. "South Korea Patent 10-1395214 Placenta-derived cells conditioned media and animal-free, feeder-free culture method for maintaining undifferentiated stem cells using the same", KOREA UNIVERSITY RESEARCH AND BUSINESS FOUNDATION, Nov 11, 2014

Publications

PUBLICATIONS

- **Exosomes From Induced Pluripotent Stem Cell-Derived Cardiomyocytes Promote Autophagy for Myocardial Repair.** *Journal of the American Heart Association*

- Santoso, M. R., Ikeda, G., Tada, Y., Jung, J., Vaskova, E., Sierra, R. G., Gati, C., Goldstone, A. B., von Bornstaedt, D., Shukla, P., Wu, J. C., Wakatsuki, S., Woo, et al
2020; 9 (6): e014345
- **CXCR2 Ligands and mTOR Activation Enhance Reprogramming of Human Somatic Cells to Pluripotent Stem Cells** *STEM CELLS AND DEVELOPMENT*
Lee, S., Kang, K., Kim, J., Lee, B., Jung, J., Park, Y., Hong, S., Kim, B.
2020
 - **Stem Cell-Derived Exosomes Protect Astrocyte Cultures From in vitro Ischemia and Decrease Injury as Post-stroke Intravenous Therapy** *FRONTIERS IN CELLULAR NEUROSCIENCE*
Sun, X., Jung, J., Arvola, O., Santoso, M. R., Giffard, R. G., Yang, P. C., Stary, C. M.
2019; 13
 - **Chapter 16. Novel MRI Contrast from Magnetotactic Bacteria to Evaluate In Vivo Stem Cell Engraftment** *Biological, Physical and Technical Basics of Cell Engineering*
Jung, J., et al
Springer Nature Publishing .2018: 365
 - **Exosomes Generated From iPSC-Derivatives New Direction for Stem Cell Therapy in Human Heart Diseases** *CIRCULATION RESEARCH*
Jung, J., Fu, X., Yang, P. C.
2017; 120 (2): 407-417
 - **CXCR2 Inhibition in Human Pluripotent Stem Cells Induces Predominant Differentiation to Mesoderm and Endoderm Through Repression of mTOR, beta-Catenin, and hTERT Activities** *STEM CELLS AND DEVELOPMENT*
Jung, J., Kang, K., Kim, J., Hong, S., Park, Y., Kim, B. S.
2016; 25 (13): 1006-1019
 - **A strategy for culturing human pluripotent stem cells for translational research** *Stem Cell & Translational Investigation*
Jung, J., Kim, B.
2016; 3: e1134
 - **A Novel Culture Model for Human Pluripotent Stem Cell Propagation on Gelatin in Placenta-conditioned Media** *JOVE-JOURNAL OF VISUALIZED EXPERIMENTS*
Jung, J., Kim, B. S.
2015
 - **CXCR2 and Its Related Ligands Play a Novel Role in Supporting the Pluripotency and Proliferation of Human Pluripotent Stem Cells** *STEM CELLS AND DEVELOPMENT*
Jung, J., Lee, S. J., Kim, J., Lee, S., Sung, H., An, J., Park, Y., Kim, B. S.
2015; 24 (8): 948-961
 - **Mel-18, a mammalian Polycomb gene, regulates angiogenic gene expression of endothelial cells** *BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS*
Jung, J., Choi, H., Maeng, Y., Choi, J., Kim, M., Kwon, J., Park, Y., Kim, Y., Hwang, D., Kwon, Y.
2010; 400 (4): 523-530
 - **Decreased Level and Defective Function of Circulating Endothelial Progenitor Cells in Children With Moyamoya Disease** *JOURNAL OF NEUROSCIENCE RESEARCH*
Kim, J. H., Jung, J., Phi, J. H., Kang, H., Kim, J. E., Chae, J. H., Kim, S., Kim, Y., Kim, Y. Y., Cho, B., Wang, K., Kim, S.
2010; 88 (3): 510-518
 - **Multifarious proteomic signatures and regional heterogeneity in glioblastomas** *JOURNAL OF NEURO-ONCOLOGY*
Park, C., Jung, J. H., Park, S., Jung, H., Cho, B.
2009; 94 (1): 31-39
 - **Tissue Expression of Manganese Superoxide Dismutase Is a Candidate Prognostic Marker for Glioblastoma** *ONCOLOGY*
Park, C., Jung, J. H., Moon, M. J., Kim, Y., Kim, J. H., Park, S., Kim, C., Paek, S. H., Kim, D. G., Jung, H., Cho, B.
2009; 77 (3-4): 178-181
 - **Investigation of molecular factors associated with malignant transformation of oligodendroglioma by proteomic study of a single case of rapid tumor progression** *JOURNAL OF CANCER RESEARCH AND CLINICAL ONCOLOGY*

Park, C., Kim, J. H., Moon, M. J., Jung, J. H., Lim, S., Park, S., Kim, J., Kim, D. G., Jung, H., Cho, B., Paek, S. H.
2008; 134 (2): 255-262