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Yu Jin Jang, Ph.D.

Curriculum Vitae

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Molecular Biosciences, The University of Texas at Austin.

<https://scholar.google.co.kr/citations?user=SUIIWlgAAAAJ&hl=en>

EDUCATION & TRAINING

- 2017-present **Postdoctoral fellow**, Molecular Biosciences, The University of Texas at Austin, Austin, TX (Advisor: Jonghwan Kim, Ph.D.)
- 2012-2017 **Ph.D.**, Animal Biotechnology, Department of Biotechnology, Korea University, Seoul, Korea (Advisor: Jong-Hoon Kim, Ph.D.)
- 2010-2012 **M. S.**, Animal Biotechnology, Department of Biotechnology, Korea University, Seoul, Korea (Advisor: Jong-Hoon Kim, Ph.D.)
- 2006-2010 **B. S.**, Division of Biotechnology, Korea University, Seoul, Korea

HONORS AND AWARDS

- 2014-2016 Research Scholarship, Korea University, Seoul, Korea
- 2014-2015 Brain Korea 21 PLUS Research Scholarship, Seoul, Korea
- 2014 Best Poster Award, Annual meeting of Korean Society for Reproductive Medicine, Seoul, Korea
- 2012 Administrative Assistant Scholarships, Korea University, Seoul, Korea
- 2011 Research Assistant Scholarships, Korea University, Seoul, Korea
- 2010, 2013 General Scholarships, Korea University, Seoul, Korea
- 2006-2009 National Memorial Scholarships, Seoul, Korea
- 2006, 2009 Semester High Honors, Korea University, Seoul, Korea

TEACHING EXPERIENCE

- 2010-2016 Teaching Assistant, Stem Cell Biology, Korea University, Seoul, Korea
- 2010-2016 Teaching Assistant, Applied Developmental Biology, Korea University, Seoul, Korea

MENTORING EXPERIENCE

- 2017-present Laboratory technician, Nereida J Ramirez, B.S., Cell & Molecular Biological experiments, UT Austin
- 2016 Integrated Ph.D. student, Hyojin Kim, Hepatic differentiation of human ESCs & Liver tissue regeneration research, Korea University
- 2015-2016 Ph.D. student, Gyunggyu Lee, Hepatic differentiation of human ESCs & Liver tissue regeneration research, Korea University
- 2013-2016 Integrated Ph.D. student, Ji Young Park, Hepatic differentiation of human ESCs & Liver tissue regeneration research, Korea University
- 2013-2016 Integrated Ph.D. student, Jaehun Lee, Hepatic differentiation of human ESCs, Korea University

MEMBERSHIPS IN PROFESSIONAL SOCIETIES

- 2011-present Member, International Society for Stem Cell Research

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2014-present Member, Korean Society for Stem Cell Research
2013-present Member, Tissue Engineering and Regenerative Medicine International Society
2013-present Member, Korean Society for Biochemistry and Molecular Biology
2011-present Member, Korean Tissue Engineering and Regenerative Medicine Society
2010-present Member, Korean Society for Developmental Biology
2010-present Member, Korean Society for Reproductive Medicine

PRESENTATIONS

Poster Presentations

2015 Annual Meeting of International Society for Stem Cell Research, Stockholm, Sweden
2015 Annual Meeting of Korean Society for Stem Cell Research, Seoul, Korea
2015 Annual Meeting of Korean Society for Developmental Biology, Seongnam-si, Gyeonggi-do, Korea
2015 The 1st International Symposium of Recent Advances in Life Sciences and Biotechnology, Seoul, Korea
2014 Tissue Engineering and Regenerative Medicine International Society Asia-Pacific Annual Conference, Daegu, Korea
2014 Annual Meeting of Korean Society for Reproductive Medicine, Seoul, Korea
2013 Tissue Engineering and Regenerative Medicine International Society European Annual Conference, Istanbul, Turkey
2013 Annual Meeting of Korean Society for Biochemistry and Molecular Biology, Seoul, Korea
2011 International Meeting of Korean Tissue Engineering and Regenerative Medicine Society, Seoul, Korea
2011 Seoul Symposium on Stem Cell Research of Stem Cell Research Center, Seoul, Korea
2011 Annual Meeting of Korean Society for Reproductive Medicine, Seoul, Korea
2011 Annual Meeting of International Society for Stem Cell Research, Toronto, Canada
2010 Annual Meeting of Korean Society of Gene and Cell Therapy, Seoul, Korea

Oral Presentations

2014 1st BK21 PLUS Biotechnology Center graduate student research presentation idea forum, Seoul, Korea

PUBLICATIONS

Publications as a lead author

Tissue regeneration & Stem cell biology

1. Su Yeon An*, **Yu Jin Jang***, Hee-Joung Lim, Jiyoun Han, Jaehun Lee, Gyunggyu Lee, Ji Young Park, Seo-Young Park, Ji Hyang Kim, Byung-Rok Do, Choongseong Han, Hee-Kyung Park, Ok-Hee Kim, Myeong Jun Song, Say-June Kim, Jong-Hoon Kim. (2017) Milk fat globule-EGF factor 8, secreted by mesenchymal stem cells, protects against liver fibrosis in mice. *GASTROENTEROLOGY* 152(5): 1174-1186
2. Jonghyun Kim*, **Yu Jin Jang***, Su Yeon An, Jeong Sang Son, Jaehun Lee, Gyunggyu Lee, Ji Young Park, Han-Jin Park, Dong-Youn Hwang, Jong-Hoon Kim, Jiyoun Han. (2015) Enhanced metabolizing activity of human ES cell-derived hepatocytes using a 3D culture system with repeated exposures to xenobiotics. *TOXICOLOGICAL SCIENCES* 147(1): 190–206 (**the Cover in Toxicological sciences**)

Review & Perspective

3. **Yu Jin Jang**, Su Yeon An, Jong-Hoon Kim. (2017) Identification of MFGE8 in mesenchymal stem cell secretome as an anti-fibrotic factor in liver fibrosis. *BMB REPORTS* 50(2): 58

Collaborations

Tissue regeneration & Stem cell biology

4. Jae-Sang Hong, Do-Hoon Lee, Ye Won Yook, Dokyun Na, **Yu Jin Jang**, Jong-Hoon Kim, Young Sik Lee. (2017) MicroRNA signatures associated with thioacetamide-induced liver fibrosis in mice. BIOSCIENCE, BIOTECHNOLOGY, AND BIOCHEMISTRY 1-8
5. Kyung Tae Lim, Seung Chan Lee, Yimeng Gao, Kee-Pyo Kim, Guangqi Song, Su Yeon An, Kenjiro Adachi, **Yu Jin Jang**, Jonghun Kim, Kyoung-Jin Oh, Tae Hwan Kwak, Seon In Hwang, Jueng Soo You, Kinarm Ko, Seung-Hoi Koo, Amar Deep Sharma, Jong-Hoon Kim, Lijian Hui, Tobias Cantz, Hans R Schöler, Dong Wook Han. (2016) Small molecules facilitate single factor-mediated hepatic reprogramming. CELL REPORTS 15(4): 814-829
6. Jong Hyun Kim, Hyung Woo Kim, Kyoung Je Cha, Jiyoun Han, **Yu Jin Jang**, Dong Sung Kim, Jong-Hoon Kim. (2016) Nanotopography promotes pancreatic differentiation of human embryonic stem cells and induced pluripotent stem cells. ACS NANO 10(3): 3342-3355
7. Joong-Hyun Shim, JongHyun Kim, Jiyoun Han, Su Yeon An, **Yu Jin Jang**, Jeongsang Son, Dong-Hun Woo, Suel-Kee Kim, Jong-Hoon Kim. (2015) Pancreatic islet-like three-dimensional aggregates derived from human embryonic stem cells ameliorate hyperglycemia in streptozotocin-induced diabetic mice. CELL TRANSPLANTATION 24(10): 2155-2168
8. Wen Xiu Ren, Jiyoun Han, Soojin Uhm, **Yu Jin Jang**, Chulhun Kang, Jong-Hoon Kim, Jong Seung Kim. (2015) Recent development of biotin conjugation in biological imaging, sensing, and target delivery. CHEMICAL COMMUNICATIONS 51(52): 10403-10418
9. Sung-Eun Kim, Su Yeon An, Dong-Hun Woo, Jiyoun Han, Jong Hyun Kim, **Yu Jin Jang**, Jeong Sang Son, Hyunwon Yang, Yong Pil Cheon, Jong-Hoon Kim. (2013) Engraftment potential of spheroid-forming hepatic endoderm derived from human embryonic stem cells. STEM CELLS AND DEVELOPMENT 22(12): 1818-1829
10. Hyun Ju You, Jiyoun Han, Dong-Hun Woo, Su Yeon An, Jong Hyun Kim, **Yu Jin Jang**, Jeong Sang Son, Suel-Kee Kim, Jong-Hoon Kim. (2011) Efficient derivation of hepatogenic endoderm from human embryonic stem cells using serum-free conditioned medium from l-wnt3a cells. TISSUE ENGINEERING AND REGENERATIVE MEDICINE 8(6): 554-563

Complete List of Published Work in MyBibliography

<https://www.ncbi.nlm.nih.gov/myncbi/browse/collection/52931374/?sort=date&direction=ascending>

PATENTS

1. **Method for the trans-differentiation of mesenchymal stem cells into endodermal cell**
Korean Patent No. 10-1251217-0000 Role: Inventor
2. **Method for differentiation of hepatocyte**
Korean Application No. 10-2015-0113616 Role: Inventor
3. **Method for enhancing metabolizing activity of hepatocytes**
Korean Application No. 10-2015-0114352 Role: Inventor
4. **Composition for preventing or treating of hepatic fibrosis comprising exosome or exosomal RNAs**
Korean Application No. 10-2016-0025681 Role: Inventor
5. **Composition for preventing or treating tissue fibrosis using milk fat globule-EGF factor (MFG-E8)**
Korean Application No. 10-2015-0106523
PCT Application No. PCT/KR2016/007611 Role: Inventor