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Department of Creative IT Engineering,
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EDUCATION

- Ph. D.** in Biomedical Engineering, 2010-2015
Pohang University of Science and Technology (POSTECH), Korea
Advisor: Dong-Woo Cho, Ph.D.
- B.S.** in Mechanical Design and Automation Engineering, 2006-2010
Seoul National University of Science & Technology, Korea
Advisor: Dong Young Jang, Ph.D.
- B.S.** in Manufacturing Systems and Design of Engineering,
Northumbria University, Newcastle, United Kingdom
(Graduation with **First Class Honor** and **Dual Bachelor's degrees**)

ACADEMIC POSITION

- Assistant Professor,** 2017-present
Department of Creative IT Engineering POSTECH, Korea
- Adjunct Assistant Professor,** 2017-present
School of Interdisciplinary Bioscience and Bioengineering, POSTECH, Korea

TRAINING AND PROFESSIONAL EXPERIENCE

- Visiting Scholar,** 2016-2017
Department of Pathology & Bioengineering,
Institute for Stem Cell and Regenerative Medicine,
Center for Cardiovascular Biology,
University of Washington, Seattle, WA, USA
- Postdoctoral Fellow,** 2015-2017
Department of Mechanical Engineering, Pohang University of Science and
Technology (POSTECH), Pohang, Korea
- Visiting Student,** 2012-2013
Department of Bioengineering, University of Washington, Seattle, WA, USA
- Research Assistant,** 2010-2015
Division of Integrative Biosciences and Biotechnology,
Department of Mechanical Engineering,
Pohang University of Science and Technology (POSTECH), Pohang, Korea
- Undergraduate Researcher,** 2007-2009
Computer-aided Manufacturing (CAM) Lab.

Dept. of Mechanical Design and Automation Engineering,
Seoul National University of Science & Technology, Seoul, Korea

AWARDS AND HONORS

Excellence Award for Young Scientist (Bioengineering) , Korea Federation of Women's Science & Technology Associations	2016
Presidential Post-Doc Fellowship , The National Research Foundation of Korea	2015 – 2020
Excellent Presentation Award , Korean Tissue Engineering and Regenerative Medicine Society	2015
Young Investigator Award , International Conference on Biofabrication 2014	2014
Excellent Publication Award , Pohang University of Science and Technology	2014
Graduation with First Class Honors , Northumbria University, Newcastle, UK	2010

PROFESSIONAL ACTIVITIES AND SERVICE

Board of Materials and Design , Korean Society for Precision Engineering	2018 - Present
Session co-chair , "Bioprinting for Regenerative Medicine Applications," session at the 39 th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, ICC Jeju, Jeju, Korea.	July 11-15, 2017
Representative Conference Secretariat , Conference organization, International Conference on Biofabrication 2014 in Pohang, Korea, International Society for Biofabrication.	Dec. 2013 – Oct. 2014
Ad hoc reviewer , Acta Biomaterialia, Advanced Healthcare Materials, Materials. Reviewed articles on 3D Bioprinting Technology, Micro-tissue testing platforms, Printable biomaterials, Tissue Engineering, Organoid, and Tissue Modeling	2017 - Present

REPORT OF FUNDED PROJECTS (Current)

2018-2019: Co-investigator, "Development Study for Quality Assessment of 3D Bioprinting Product," Drug Safety Research Program, National Institute of Food and Drug Safety Evaluation (NIFDS).

2018-2020: PI, "3D Bioprinted Neurovascular Unit Model for Testing the Effect of External Electrical Stimuli on Brain Physiology," i-Lab Project (POSCO).

2017-2021: PI, "Engineering Pancreas Tissues with Stem Cell Niche Environment via 3D Bioprinting Technology," The Bio & Medical Technology Development Program (MSIP).

2017-2018: Co-investigator, "Research Center for Advanced Robotic Surgery based on Deep Tissue Imaging and Haptic Feedback Technology," The Engineering Research Center Program (MSIP).

2017-2019: Co-investigator, "Development of Robotic Core Technologies for Patient-specific Precision Examination and Keratoplasty based on Fabrication of 50 µm-level Layered Artificial Cornea," The Industrial Technology Innovation Program (MI).

2017-2020: Subaward PI, "Development of 3D Printing-based Therapeutic Niche and Functionally Improved Stem Cell Therapeutics for Cardiovascular Diseases," The Korean Health Technology R&D Project, Ministry of Health and Welfare.

2016-2019: Subaward PI, "Animal Resource-derived 3D Bioprinting Technology and Bioink for Medical Application," The Bio-Industry Technology Development Program (MAFRA).

2015-2020: PI, "3D Bioprinted High Functional Biomyocardium for the Treatment of Ischemic Heart Diseases," The Basic Science Research Program (Presidential Postdoc Fellowship, NRF).

PEER-REVIEWED PUBLICATIONS

*Co-first and #Co-corresponding authors

1. Sanskrita Das and **Jinah Jang**, "3D Bioprinting and Decellularized Extracellular Matrix-based Biomaterials for In Vitro Cardiovascular Tissue Engineering," *Journal of 3D Printing in Medicine*, 2018, 2(2), pp.69-87.
2. **Jinah Jang***, Ju Young Park*, Ge Gao, and Dong-Woo Cho, "Biomaterials-based 3D Cell Printing for Next-Generation Therapeutics and Diagnostics," *Biomaterials*, 2018, 156, pp.88-106.
3. **Jinah Jang***#, "3D Bioprinting and In Vitro Cardiovascular Tissue Modeling," *Bioengineering*, 2017, 4(3), pp.71.
4. Gao Ge*, Jun Hee Lee*, **Jinah Jang***, Dong Hang Lee, Jeong-Sik Kong, Byoung Soo Kom, Yeong-Jin Choi, Young Joon Hong, Sang-Mo Kwon, Dong-Woo Cho "Tissue Engineered Bio-Blood-Vessel using a Tissue Specific Bioink and 3D Coaxial Cell Printing Technique: A Novel Therapy for Ischemic Disease," *Advanced Functional Materials*, 2017, 27(33), 1700798.
5. Byoung Soo Kim*, Hyeonji Kim*, Ge Gao, **Jinah Jang**#, Dong-Woo Cho#, "Decellularized extracellular matrix: A step towards the next generation source for bioink manufacturing," *Biofabrication*, 2017, 9, 034104.
6. Hyungseok Lee*, Wonil Han*, Hyeonji Kim, Dong-Heon Ha, **Jinah Jang**, Byoung Soo Kim, Dong-Woo Cho, "Development of liver decellularized extracellular matrix bioink for 3D cell printing-based liver tissue engineering," *Biomacromolecules*, 2017, 18(4), pp.1229-1237.
7. **Jinah Jang**, Dong-Woo Cho, "Recapitulation of Microtissue Models Connected with Real-time Readout Systems via 3D Printing Technology," *Journal of Thoracic Disease*, 2017, 9(2), pp.233.
8. **Jinah Jang***, Hun-Jun Park*, Seok-Won Kim, Heejin Kim, Ju Young Park, Soo Jin Na, Hyeon Ji Kim, Moon Nyeo Park, Seung Hyun Choi, Sun Hwa Park, Sung Won Kim, Sang-Mo Kwon, Pum Joon Kim, Dong-Woo Cho, "3D Printed Complex Tissue Construct using Stem Cell-laden Decellularized Extracellular Matrix Bioinks for Cardiac Repair," *Biomaterials*, 2017, 112, pp.264-74.
9. Ju Young Park*, Gao Ge*, **Jinah Jang**, Dong-Woo Cho, "3D printed structure for biomolecule and cell delivery: Tissue repair and regeneration," *Journal of Materials Chemistry B*, 2016, 4(47), 7521-7539.
10. Jeong Hun Park*, **Jinah Jang***, Jung-Seob Lee and Dong-Woo Cho, "Three-dimensional Printing of Tissue/Organ Analogues Containing Living Cells," *Annals of Biomedical Engineering*, 2016 45(1), pp.189-194.
11. Jeong Hun Park*, **Jinah Jang***, Jung-Seob Lee and Dong-Woo Cho, "3D Tissue/Organ Printing,"

- Tissue Engineering and Regenerative Medicine*, 2016, 13(6), pp.612-621.
12. **Jinah Jang***, Hee-Gyeong Yi*, Dong-Woo Cho, "3D Printed Tissue Models: Present and Future," *ACS Biomaterials Science & Engineering*, 2016, 2(10), pp.1722–31.
 13. Byoung Soo Kim*, **Jinah Jang***, Su Hun Chae, Gao Ge, Jeong Sik Kong, Min Jun Ahn, Dong-Woo Cho, "Three-dimensional bioprinting of cell-laden constructs with polycaprolactone protective layers for using various biomaterials," *Biofabrication*, 2016, 8(3), pp.035013.
 14. Hee Gyeong Yi, Kyung Shin Kang, Jung Min Hong, **Jinah Jang**, Moon Nyeo Park, Young Hun Jeong, Dong-Woo Cho, "Effects of electromagnetic field frequencies on chondrocytes in 3D cell-printed composite constructs," *Journal of Biomedical Materials Research Part A*, 2016, 7, pp.1797-1804.
 15. Ho Sang Jung, Yeongjin Choi, Ji Won Jung, Young Mun Lee, Byung Woo Hwang, **Jinah Jang**, Jin-Hyung Shim, Yoon-Seob Kim, Sang-Ho Oh, Jong-Soo Lee, Dong-Woo Cho, and Sei Kwang Hahn, "Nanoscale graphene coating on commercially pure titanium for accelerated bone regeneration," *RSC Advances*, 2016, 6, pp.26719-24.
 16. Wan-geun La*, **Jinah Jang***, Byung-Soo Kim*, Min Suk Lee, Dong-Woo Cho, and Hee-Seok Yang, "Systemically replicated organic and inorganic bony microenvironment for new bone formation generated by a 3D printing technology," *RSC Advances*, 2016, 6, pp.11546-53.
 17. **Jinah Jang***, Taek Gyoung Kim*, Byung Soo Kim, Seok Won Kim, Dong-Woo Cho, "Tailoring Mechanical Properties of Decellularized Extracellular Matrix Bioink by Vitamin B2-induced Photocrosslinking," *Acta Biomaterialia*, 2016, 15(33), pp.88-95.
 18. **Jinah Jang** and Dong-Woo Cho, "A Review of the Fabrication of Soft Structures with Three-dimensional Printing Technology," *Journal of the Korean Society of Manufacturing Process Engineers*, 2015, 14(6), pp.142-8.
 19. Joydip Kundu*, Jin-Hyung Shim*, **Jinah Jang**, Sung-Won Kim, Dong-Woo Cho. "An additive manufacturing based PCL/alginate/chondrocyte bioprinted scaffold for cartilage tissue engineering," *Journal of Tissue Engineering and Regenerative Medicine*, 2015, 9(11), pp.1286-97.
 20. Falguni Pati, Dong-Heon Ha, **Jinah Jang**, Hyun Ho Han, Jong-Won Rhie, Dong-Woo Cho, "Biomimetic 3D Tissue Printing for Soft Tissue Regeneration," *Biomaterials*, 2015, 62, pp.164-175. (Selected as the Biomaterials 2015 Top Images poster)
 21. Ju Young Park*, Jin-Hyung Shim*, Song-Ah Choi, **Jinah Jang**, Myungshin Kim, Sang Hwa Lee, Dong-Woo Cho, "3D printing technology to control BMP-2 and VEGF delivery spatially and temporally to promote large-volume bone regeneration," *Journal of Materials Chemistry B*, 2015, 3, pp.5415-25.
 22. Falguni Pati, Tae-Ha Song, Girdhari Rijal, **Jinah Jang**, Sung Won Kim, Dong-Woo Cho, "Ornamenting 3D printed scaffolds with cell-laid extracellular matrix for bone tissue regeneration," *Biomaterials*, 2015, 37, pp.230-241.
 23. Tae-Ha Song*, **Jinah Jang***, Yeong-Jin Choi, Jin-Hyung Shim, Dong-Woo Cho, "3D printed drug/cell carrier enabling effective release of cyclosporin A for xenogeneic cell-based therapy," *Cell Transplantation*, 2015, 24, pp.2513-25. (Highlighted in EurekaAlert)
 24. Jeong Hwa Kim, **Jinah Jang**, Young Hun Jeong, Tae Jo Ko, Dong-Woo Cho, "Fabrication of a nanofibrous mat with a human skin pattern," *Langmuir*, 2015, 31(1), pp.424–431.
 25. Jin-Hyung Shim*, Min-Chul Yoon*, Chang-Mo Jeong, **Jinah Jang**, Sung-In Jeong, Dong-Woo Cho

- and Jung-Bo Huh, "Efficacy of rhBMP-2 loaded PCL/PLGA/ β -TCP guided bone regeneration (GBR) membrane fabricated by 3D printing technology for reconstruction of calvaria defects in rabbit," **Biomedical Materials**, 2014, 9(6), pp.065006.
26. **Jinah Jang**, Young-Joon Seol, Hyeon Ji Kim, Sung Won Kim, Joydip Kundu, Dong-Woo Cho, "Effects of alginate hydrogel cross-linking density on mechanical and biological behavior for tissue engineering," **Journal of the Mechanical Behavior of Biomedical Materials**, 2014, 37, pp.66-77.
 27. Young-Joon Seol, Ju Young Park, Jin Woo Jung, **Jinah Jang**, Rijal Girdhari, Sung Won Kim, Dong-Woo Cho, "Improvement of bone regeneration capability of ceramic scaffolds by accelerated release of their calcium ions," **Tissue Engineering Part A**, 2014, 20(21-22), pp.2840-49.
 28. Falguni Pati*, **Jinah Jang***, Dong-Heon Ha, Sung Won Kim, Jong-Won Rhie, Jin-Hyung Shim, Deok-Ho Kim, Dong-Woo Cho, "Printing three dimensional tissue analog with decellularized extracellular matrix bioink," **Nature Communications**, 2014, 5 (3935). (Citation #: 434 (google scholar, as of May 12, 2018); Highlighted in various media including Dong-A ilbo, MBC news, YTN Science, etc; Excellent publication award from POSTECH)
 29. Jeong Hun Park*, **Jinah Jang***, Dong-Woo Cho, "Three-Dimensional Printed 3D Structure for Tissue Engineering," **Transactions of the Korean Society of Mechanical Engineering B**, 2014, 38(10), pp. 817-829. (Invited review paper)
 30. **Jinah Jang***, Hana Oh*, Jongwan Lee, Tae Ha Song, Young Hun Jeong, Dong-Woo Cho, "A cell-laden nanofiber/hydrogel composite structure with tough-soft mechanical property," **Applied Physics Letters**, 2013, 102, pp.211914.
 31. Jongwan Lee*, **Jinah Jang***, Hana Oh, Young Hun Jeong, Dong-Woo Cho, "Fabrication of a three-dimensional nanofibrous scaffold with lattice pores using direct-write electrospinning," **Materials letters**, 2013, 93(15), pp.397-400.
 32. **Jinah Jang***, Jongwan Lee*, Young-Joon Seol, Young Hun Jeong, Dong-Woo Cho, "Improving mechanical properties of alginate hydrogel by reinforcement with ethanol treated polycaprolactone nanofibers for the cartilage regeneration," **Composite part B: Engineering**, 2013, 45(1), pp. 1216-1221.
 33. Jin Woo Jung*, **Jinah Jang***, Jin-Hyung Shim, Sung-Won Kim, Dong-Woo Cho, "Design and Fabrication of the Nasal Implant-shaped Scaffold and Regeneration of Nasal Cartilage Tissue for Rhinoplasty," **Transactions of the Korean Society of Mechanical Engineering B**, 2012, 36(11), pp.1111-1117.
 34. Jongwan Lee*, Seung yong Lee*, **Jinah Jang**, Young Hun Jeong, Dong-Woo Cho: "Fabrication of patterned nanofibrous mats using a direct-write electrospinning," **Langmuir**, 2012, 28 (18), pp. 7267-7275.

MANUSCRIPTS IN PROGRESS

35. Ge Gao*, Byoung Soo Kim*, **Jinah Jang**[#] and Dong-Woo Cho[#] "Advanced Strategies for Extrusion-based 3D Cell Printing and Bioink Designs," **Submitted to International Journal of Molecular Sciences**.
36. Yeong-Jin Choi*, **Jinah Jang***, Hee-Gyeong Yi, Su-Hun Chae, Seok-Won Kim, Daniel C. Corbett, Joseph Powers, Lil M. Pabon, Dasom C. Yoo, Sooyeon Lee, Min-Jun Ahn, Hyeon Ji Kim, Moon Nyeo Park, Dong-Heon Ha, Jin-Hyung Shim, Won-Soo Yun, Michael Regnier, Charles E. Murry, Kelly R. Stevens[#], Dong-Woo Cho[#], "Decellularized Extracellular Matrix-based Bioinks for Printing

Functional Human Muscular Tissues,” **Submitted to Nature Protocols**

37. Ju Young Park, Jinah Jang, Hyun-Wook Kang, “3D Bioprinting and Its Application to Organ-on-a-Chip,” **Submitted to Microelectronic Engineering**
38. Hyeon-Ji Kim, Moon-nyeo Park, Jisoo Kim, Jinah Jang, Hong-Gyun Kim, Dong-Woo Cho, “Cornea-Mimetic Bioink for 3D Bioprinted Cornea: In vitro Characterization and In Vivo Assessment,” **Submitted to Acta Biomaterialia.**
39. Hee-Gyeong Yi, Yeong-Jin Choi, Jin Woo Jung, **Jinah Jang**, Tae-Hea Song, Tae Hyun Choi, Jong-Won Rhie, Dong-Woo Cho, “3D printing of a patient-specific engineered nasal cartilage for augmentative rhinoplasty,” **Submitted to Biofabrication.**
40. Byeong Gon Yun, Seok-Won Kim, Sun Hwa Park, Su Young Kim, Min Suk Lee, Jung Ho Jeon, Do Hyun Kim, Mi Hyun Lim, Sang A Back, **Jinah Jang**, Hee Seok Yang, Dong-Woo Cho, Jung Yeon Lim, Sung Won Kim, “Accelerated Bone Regeneration Via Three-Dimensional Cell Printed Constructs Containing Human Nasal Stem Cells,” **Submitted to Biomaterials.**
41. Seok-Won Kim, Yumi Cho, Yeong-Jin Choi, Hun-Jun Park, Ju Young Park, Dong-Woo Cho, **Jinah Jang**, “3D printed in vitro cardiac tissue model for testing cardiotoxicity,” **In preparation.**
42. Narendra K Singh, Wonil Han, Ju Young Park, **Jinah Jang**, Dong-Woo Cho, “Differentially proteomics analysis of dECM Bioinks: An in-depth evidence of tissue specificity,” **In preparation.**
43. Ju Young Park, Cassidy Blundell, Yunseok Lee, Jeong Hun Park, **Jinah Jang**, Min-Jun Ahn, Dong-Woo Cho, Dongeun Huh, “Decellularized tissue-derived scaffolds for functional airway epithelium engineering,” **In preparation.**
44. Gao Ge, **Jinah Jang**, Su Hun Chae, Dong-Woo Cho, “Direct Construction of Biomimetic Blood Vessels as Small-diameter Bypass Grafts,” **In preparation.**
45. Gao Ge, Jisoo Kim, Jaeyon Won, **Jinah Jang**, Dong-Woo Cho, “3D printing of core/shell implants for varied release of multiple drugs: A versatile drug delivery strategy for wet AMD disease,” **In preparation.**

BOOK CHAPTERS

*Co-first and #Co-corresponding authors

Sanskrita Das, Ge Gao, Jae Yeon Lee, **Jinah Jang**[#], and Dong-Woo Cho[#] (Invited Book Chapter) (2018), Chapter 7. Decellularized tissue matrix-based 3D tissue modeling in *Biofabrication and 3D Tissue Modeling*, Dong-Woo Cho (Ed.), RSC. (Submitted)

Jinah Jang, Ju Young Park, Jin Woo Lee, Seung Jae Lee, and Dong-Woo Cho (2018), Invited Chapter regarding 3D Printing-based Biofabrication, in *Regenerative Medicine*, James J. Yoo and Mun Suk Kim (Eds.), Kunja Publisher.

Falguni Pati, **Jinah Jang**, Jin Woo Lee, and Dong-Woo Cho (Invited Book Chapter) (2015), Chapter 14. Extrusion Bioprinting, in *Essentials of 3D Biofabrication and Translation*, Anthony Atala and James J. Yoo (Eds.), Elsevier.

Jung-Seob Lee, Falguni Pati, Jin Woo Jung, **Jinah Jang**, Jeong Hun Park, and Dong-Woo Cho (Invited Text book) (2015), *Organ Printing*, Morgan & Claypool Publishers (IOP Concise Physics).

PATENTS

J. Jang, D.-W. Cho, and H. J. Park, "THREE-DIMENSIONAL STRUCTURE FOR CARDIAC MUSCULAR TISSUE REGENERATION AND MANUFACTURING METHOD THEREFOR," (*Tech. Transfer to T&R Biofab. Jan 26, 2016*).

Domestic: 10-2015-0042418 (03/26/2015)
 PCT: PCT/KR2016/003979 (03/25/2016)
 US: 15/556,386 (09/07/2017)
 CN: 2017101201967100 (10/17/2017)
 EU: 16 769 138.5. (09/21/2017)

J. Jang, and D.-W. Cho, "Composition for Three-Dimensional Printing, Method for Preparing Same, and Method for Manufacturing Three-Dimensional Structure Using Same," (*Joint patent application with T&R Biofab.*).

Domestic: 10-2015-0042412 (03/26/2015)
 PCT: PCT/KR2016/001839 (02/25/2016)
 US: 15/561,350 (09/25/2017)
 CN: 201680018382.8 (09/25/2017)

D.-W. Cho, J.-S. Kong, **J. Jang**, H.-G. Yi, J.-W. Kim, "Modularized Cell Culture Block," 20-2017-0091016 (07/18/2017)

H.-J. Kim, H. Ko, **J. Jang**, J.-C. Shin, D.-W. Cho, D.-H. Ha, "Plug for healing amniotic membrane," 10-2017-006198 (01/13/2017)

D.-W. Cho, Y.-J. Choi, T.-G. Kim, H.-G. Yi, **J. Jang**, S.-W. Kim, W. Hwang, J.H. Jeong, J.W. Park, "Development of decellularized skeletal muscle structure for augmenting volumetric muscle loss," 10-2016-0114039 (09/05/2016)

D.-W. Cho, M.N. Park, Y.M. Moon, **J. Jang**, and H.J. Kim, "Biocompatibility cornea generation method and biocompatibility tissue decellularized composition," Patent # 10-1717234 (03/10/2017); application # 10-2015-0054725 (04/17/2015)

H. S. Yang, D.-W. Cho, **J. Jang**, B. S. Kim, M. S. Lee and W.-G. La., "A scaffold with extracellular matrix for bone regeneration," Patent # 10-1733662 (04/28/2017); application # 10-2015-0050930 (04/10/2015) (*Joint patent application with T&R Biofab.*)

INVITED TALKS

2018

"Engineering Human Tissues via 3D Bioprinting Technology," Invited talk at the Young Scientist Session in the conference of The Korean Society of Medical & Biological Engineering, May 12, 2018.

"Engineering Human Tissues via 3D Bioprinting Technology," Invited talk at the Korean Society for Precision Engineering (KSPE) 2018 Spring Conference, May 10, 2018.

“Engineering Human Tissues via 3D Bioprinting Technology,” Invited talk at the conference on The Korean Society of Mechanical Engineers: BioEngineering division, April 27, 2018.

“Bioprinting and Stem Cells for Engineering Human Tissues,” Invited talk at the conference on The 1st Asia Pacific Congress on Biotechnologies for Spinal Surgery (BioSpine Asia Pacific 2018), April 26, 2018.

“A Review on Engineering Blood Vessels,” Invited lecture at KIPO, April 3, 2018.

“Bioprinting and Stem Cells for Engineering Human Tissues,” Invited seminar at the Jackson Laboratory for Genomic Medicine (Jax-GM), Farmington, CT, March 28, 2018.

“Bioprinting and Stem Cells for Engineering Human Tissues,” Invited talk at the conference on BioEngineering 2018 (organized by SelectBio), Wyndham Beacon Hill, Boston, MA, March 27, 2018.

“Cell Printing for Tissue Regeneration,” 3D Bioprinting Pioneer Committee Symposium, Feb. 10, 2018.

“Engineering Human Tissues via 3D Bioprinting Technology,” Invited seminar at Ehwa-Jax International Research Center for Cancer Immunotherapy, Feb. 8, 2018.

“Building 3D Human Tissues Using Bioprinting and Stem Cell Bioink Toolkit,” Gordon Lecture Series Presentation, Gordon Center for Medical Imaging at Massachusetts General Hospital, Feb. 2, 2018.

2017

“Engineering Human Tissues via 3D Bioprinting Technology,” 2017 The Korean Society of 3D Printing in Medicine: Fall Meeting, Dec. 8, 2017.

“Engineering Human Tissues via 3D Bioprinting Technology,” 2017 CiTE Forum, Dec. 7, 2017.

“Engineering Human Tissues via 3D Bioprinting Technology,” 2017 The Korean Association of Stem Cell and Tissue Engineering: Fall Meeting, Dec. 3, 2017.

“Engineering Human Tissues via 3D Bioprinting Technology,” 2017 Symposium on 3D Bioprinting for Clinical Applications, Nov. 29, 2017.

“Engineering Human Tissues via 3D Bioprinting Technology,” 2017 5th AMC Symposium on Biomedical Engineering, Nov. 29, 2017.

“Engineering Human Tissues Using Stem Cell and Bioprinting Technology,” 2017 DGMIF Workshop for Experimental Animals, Nov. 8, 2017.

“Engineering Human Tissues via 3D Bioprinting Technology,” Pohang Technopark, Oct. 25, 2017.

“Engineering Human Tissues via 3D Bioprinting Technology,” School of Medicine, Pusan National University, Oct. 23, 2017.

“Engineering Human Tissues via 3D Bioprinting Technology,” SK Bioland, Sept. 27, 2017.

“Bioprinting and Stem Cells for Engineering Human Tissues,” 2017 2nd Catholic iPSC International Symposium, Sept. 9, 2017.

“Engineering Human Tissues via 3D Bioprinting Technology,” KITECH, Aug. 31, 2017.

“Engineering Human Tissues via 3D Bioprinting Technology,” Creative Seminar 2017, CiTE, POSTECH, Mar. 8, 2017.

2016

“Engineering Bioinks for Tissue Fabrication,” The 7th Symposium of Korean Tissue Engineering and Regenerative Medicine Society (KTERMS), Nov. 25, 2016. ([Invited Session](#))

“Cardiac Tissue Repair Using 3D-Printed Stem Cell Bioink,” School of Life Sciences, UNIST, July 28, 2016.

“3D Bioprinted Complex Tissue Construct Using Stem Cell-laden Decellularized Extracellular Matrix Bioinks,” 2016 Presidential Post-doc Fellowship Workshop, July 22, 2016.

“Development of Tissue Mimetic Microenvironment Via 3D Cell Printing with Decellularized Extracellular Matrix Bioink,” The 17th International Annual Meeting of Korean Tissue Engineering and Regenerative Medicine Society (KTERMS), Jun. 11, 2016. ([Invited Session](#))

“Cardiac Tissue Repair Using 3D Printed Stem Cell Delivery Platform,” Korea Basic Science Institute (KBSI), Mar. 23, 2016.

“Cardiac Tissue Repair Using 3D Printed Stem Cell Delivery Platform,” I-BIO, POSTECH, Mar. 22, 2016.

“Cardiac Tissue Repair Using 3D-Printed Stem Cell Bioink,” Hans Schoeler Stem Cell Research Center, UNIST, Feb. 22, 2016.

“Cardiac Tissue Repair Using 3D-Printed Stem Cell Bioink,” Center for Molecular Imaging, Beth Israel Deaconess Medical Center and Harvard Medical School, Feb. 12, 2016

“Development of tissue mimetic microenvironment via 3D cell printing with decellularized extracellular matrix bioink,” T&R Biofab. (Company), Jan. 15, 2016

“Development of tissue mimetic microenvironment via 3D cell printing with decellularized matrix bioink,” 2015 Annual Meeting of Korean Society for Precision Engineering, December 16-18, 2015 ([Invited Session for Selected Woman Engineers](#))

SELECTIVE CONFERENCE PAPERS

J. Jang et al., “3D Bioprinting of a Multi Composition Stem Cell Patch Using Tissue Specific Bioinks,” Biomedical Engineering Society (BMES) 2017 Annual Meeting, October 11-14, 2017, Phoenix Convention Center, Phoenix, AZ. **Podium presentation.**

J. Jang et al., “Biomaterials-based 3D cell printing for next-generation therapeutics and diagnostics,” 39th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, July 11-15, 2017, ICC Jeju, Jeju, Korea. **Podium presentation.**

J. Jang et al., “3D Bioprinting of Multi-Composition Stem Cell Patch Using Tissue-Specific Bioinks,” 39th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, July 11-15, 2017, ICC Jeju, Jeju, Korea. **Podium presentation.**

J. Jang et al., “3D printed stem cells and tissue-derived bioinks for tissue engineering application,” US-Korea Conference 2016, August 10-13, 2016, Hyatt Regency DFW, Dallas, TX. **Podium presentation.** ([Recipient of UKC travel support](#))

J. Jang et al., "Bioprinting of 3D pre-vascularized stem cell delivery platform for the treatment of ischemic cardiac diseases," 10th World Biomaterials Congress, May 17-22, 2016, Montreal Convention Center, Montreal, Canada. **Podium presentation.**

J. Jang et al., "Cardiac Tissue Repair Using 3D-Printed Stem Cell Bioink," The 8th International Conference on Microtechnologies in Medicine and Biology, April 20-22, 2016, Global Education Center for Engineers, Seoul National University, Seoul, Korea. **Poster presentation.**

J. Jang et al., " International Biomedical Engineering Conference 2015, November 12-14, 2015, Hyundai Hotel, Gyeongju, Korea. **Podium presentation.**

J. Jang et al., "Decellularized Extracellular Matrix Biomaterials for Printing Engineered Tissues: Applications to Cardiac Repair," Organ-on-a-Chip World Congress & 3D-Printing in Life Sciences Conference, July 8-9, 2015, Wyndham Boston Beacon Hill, Boston, MA, USA. **Podium presentation.**

J. Jang et al., "Vascular Cord Printed Cardiac Patch for Repairing Cardiac Function Post Myocardial Infarction," The 16th International Annual Meeting of Korean Tissue Engineering and Regenerative Medicine Society (KTERMS), pp.125, May 30, 2015, The Catholic University of Korea, Seoul St. Mary's Hospital, Seoul, Korea. ([Excellent oral presentation award](#) and **podium presentation**)

J. Jang et al., "Pre-vascularized cardiac tissue construct via 3D cell printing technology," *International Conference on Biofabrication 2014*, Sept. 28 – Oct. 1, 2014 pp.OPBBM&CTE 03, POSCO IC, POSTECH, Korea. ([Young Investigator oral presentation award](#) and **podium presentation**)

J. Jang et al., "Bioprinting with decellularized extracellular matrix and its effectiveness for chondrogenic differentiation," *International Conference on Biofabrication 2013*, p.5, November 3-6, 2013, University of Texas at El Paso, El Paso, TX. **Podium presentation.**