

Curriculum Vitae



Kyung Min Park, Ph.D.

Professor

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Academic Background:

Ph.D., Molecular Science and Technology, Ajou University, Suwon, South Korea (2012)

M.S., Biomedical Engineering, Ajou University, Suwon, South Korea (2008)

B.S., Applied Chemistry, Ajou University, Suwon, South Korea (2006)

Professional Career:

- 2024-present **Professor**, Division of Bioengineering, College of Life Sciences and Bioengineering, Incheon National University, South Korea
- 2019-2024 **Associate Professor**, Division of Bioengineering, College of Life Sciences and Bioengineering, Incheon National University, South Korea
- 2015-2019 **Assistant Professor**, Division of Bioengineering, College of Life Sciences and Bioengineering, Incheon National University, South Korea
- 2012-2015 **Postdoctoral Research Fellow**, Chemical and Biomolecular Engineering (ChemBE), Johns Hopkins Physical Sciences-Oncology Center (PSOC), and The Institute for NanoBioTechnology (INBT), The Johns Hopkins University, USA (Mentor: Dr. Sharon Gerecht)

Research Area:

- Design of advanced polymeric biomaterials
- Tissue engineering and regenerative medicine
- Engineered tissue models
- Drug delivery systems

Main Publications

(Selected from 85 peer-reviewed publications; *Equal Contribution and #Co-corresponding Author):

1. HR Jeon*, JI Kang*, SH Bhang, **KM Park**#, DI Kim#, Transplantation of stem cell spheroid-laden three-dimensional patches with bioadhesives for the treatment of myocardial infarction, **Biomater. Res.**, 28 (2024).
2. S Lee, JI Kang, Y Kim, **KM Park**, Oxygen-generating tissue adhesives via CaO₂-mediated oxygen generation and *in situ* catechol oxidation for wound management, **Compos. Part B-Eng.**, 266, 110951 (2023).
3. JI Kang, **KM Park**, Oxygen-supplying syringe to create hyperoxia-inducible hydrogels for *in situ* tissue regeneration, **Biomaterials**, 293, 121943 (2023).
4. S Park, **KM Park**, Hyperbaric oxygen-generating hydrogels, **Biomaterials** 182, 234-224 (2018).
5. D Lewis*, **KM Park***, V Tang, Y Xu, K Pak, TSK Eisinger-Mathason, MC Simon, S Gerecht. Intratumoral oxygen gradients mediates sarcoma cell invasion, **Proc. Natl. Acad. Sci. U. S. A.** 113, 9292-9297 (2016).
6. **KM Park**, S Gerecht, Hypoxia-inducible hydrogels. **Nat. Commun.** 5, 4075 (2014).