

**이형진 (Hyeongjin Lee)**

## Curriculum Vitae

Assistant Professor  
Korea University



### ● Educational Background & Professional Experience

2023–Present	Assistant professor, Department of Biotechnology and Bioinformatics, Korea University
2020–2023	Senior Researcher, Institute of Biotechnology and Bioengineering, SungKyunKwan University (SKKU), South Korea
2017–2020	Postdoctoral Fellow, Wake Forest Institute for Regenerative Medicine, Wake Forest School of Medicine, USA
2016–2017	Postdoctoral Fellow, Institute of Biotechnology and Bioengineering, SungKyunKwan University (SKKU), South Korea
2012–2013	Scientist, Biomedical Engineering, Cornell University, USA
2011–2016	Ph.D. Biomechatronic Engineering, Sungkyunkwan University, South Korea

### ● Research Interests

My research interests encompass various disciplines, including electro/mechanical/bio convergence, 3D microenvironment design for tissue engineering applications, 3D bioprinting systems for composite tissues and organs, bio-conjugation and bio-integration between biomaterials and cells/tissues, drug/protein delivery systems, natural polymer synthesis, bioreactor systems for pretreatment.

### ● Publications

1. H. Hwangbo †, H. Lee †, E-J Jin, Y. Jo, J. Son, H. M. Woo\*, D. Ryu\*, G. H. Kim\*, Photosynthetic Cyanobacteria can Clearly Induce Efficient Muscle Tissue Regeneration of Bioprinted Cell-Constructs, *Adv. Funct. Mater.*, 2209157, 2022. († co-first author) (IF=19.924, JCR 4.66% (Top 5%)).
2. H. Hwangbo †, H. Lee †, E. J. Jin, J. Y. Lee, Y. Jo, D. Ryu\*, G. H. Kim\*, Bio-printing of aligned GelMa-based cell-laden structure for muscle tissue regeneration, *Bioact. Mater.*, 8, 57, 2022. († co-first author) (IF=16.874, JCR 1.14% (Top 5%)).
3. J.Y. Kim †, H. Lee †, E.-J. Jin, Y. Jo, B. E. Kang, D. Ryu, G. H. Kim\*, A Microfluidic device to fabricate one-step cell bead-laden hydrogel struts for tissue engineering, *Small*, 18, 2106487, 2021. († co-first author) (IF=15.153, JCR 6.52% (Top 10%)).
4. W. Kim †, H. Lee †, C. K. Lee †, J. W. Kyung, S. B. An, I.-B. Han\*, G. H. Kim\*, A Bioprinting Process Supplemented with In Situ Electrical Stimulation Directly Induces Significant Myotube Formation and Myogenesis, *Adv. Funct. Mater.*, 2105170, 2021. († co-first author, Selected as a cover article) (IF=19.924, JCR 4.66% (Top 5%)).
5. H. Lee †, W. Kim †, J. Lee, K. S. Park, J. J. Yoo, A. Atala, G. H. Kim\*, S. J. Lee\*, Self-aligned myofibers in 3D bioprinted extracellular matrix-based construct accelerate skeletal muscle function restoration, *Appl. Phys. Rev.*, 8, 021405, 2021. († co-first author, Selected as a featured article) (IF=19.527, JCR 5.28% (Top 10%)).