

Hyun-Wook Kang, Ph.D.

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Biography

Hyun-Wook Kang is an Associate Professor of Biomedical Engineering at the Ulsan National Institute of Science and Technology (UNIST) in South Korea. He received his Ph.D. (2009) and M.S. (2004) degrees from Department of Mechanical Engineering at Pohang University of Science and Technology (POSTECH). After receiving his Ph.D. degree, he worked as a research fellow at the Wake Forest Institute for Regenerative Medicine (WFIRM) in the USA. He was then promoted to a faculty member at the WFIRM in 2013. He joined the faculty of UNIST as an assistant professor in School of Life Sciences in February 2015 and was promoted to associate professor in September 2020. Additionally, he serves as a board member of several local societies in Korea. He is the vice president of committee of scientific affairs in *Korean Medical 3D Printing Society*, and a board member of *Korean Tissue Engineering and Regenerative Medicine Society* and *Korean Society for Precision Engineering*. He also serves as a board member of *Bioprinting* journal.

He has over 20 years of experience in the field of 3D Bioprinting. He specializes in developing hardware and software systems for 3D bioprinting technology. He has developed various kinds of systems and related processes including laser printers, projection based micro-stereolithography, and hybrid cell printers for tissue engineering. His bioprinting technology was introduced by Dr. Anthony in TED talks (2011), and was published in *Nature Biotechnology* journal (2016). Currently, he focuses on the study of artificial tissue regenerations with 3D bioprinting technology. His current research interests include bioprinting of 3D micro-vascular network, pancreas tissue, liver tissue, cancer model, and drug delivery system.

Motivation to run for Board Member of the ISBF

Many Korean researchers are interested in 3D biofabrication technology. Several domestic conferences are organized on topics related to biofabrication every year in Korea. Additionally, a large number of Korean researchers participate every year in the conference of International Society for Biofabrication (ISBF). However, only a small proportion of Korean researchers make presentations at the conference; and their participation is not significant enough compared to researchers from other countries.

Over the past few years, my efforts have been made to increase the participation rate of Koreans in ISBF activities, but activities have been severely limited due to the COVID-19 pandemic situation. Fortunately, these conditions are getting better. I will be more active to induce active ISBF activities of Korean researchers. I believe that this will greatly improve international participation in the ISBF.