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Dr. Jae Young Lee is a Professor in the Department of Materials Science and Engineering at Gwangju Institute of Science and Technology (GIST), Republic of Korea. He received his B.S. (summa cum laude) and M.S. degrees in Chemical Technology from Seoul National University in 1997 and 1999, respectively, and earned his Ph.D. in Chemical Engineering from The University of Texas at Austin in 2010. He conducted postdoctoral research in the Department of Bioengineering at the University of California, Berkeley, supported by an American Heart Association Postdoctoral Fellowship. From 1999 to 2005, he served as a Research Scientist at LG Life Sciences, where he led the development and commercialization of medical-grade sodium hyaluronate derivatives. Since joining GIST in 2012, Dr. Lee has established a leading research program in functional and conductive biomaterials. He has published over 100 peer-reviewed journal articles and holds more than 10 domestic and international patents, including technologies that have been successfully translated into industrial applications. His research focuses on biocompatible implantable bioelectrodes, electrically conductive and functional hydrogels for stem cell delivery, tissue regeneration and 3D bioprinting, as well as nanobiomaterials for therapeutic and regenerative medicine applications. He currently serves as Associate Editor of Nano Select (Wiley) and has received multiple awards recognizing his scientific contributions.