

Hyun W. Bae, MD

Principal Clinical Partner

Hyun W. Bae, MD, is the Medical Director of Spine Education and a Clinical Professor of Surgery and Orthopaedics at Cedars-Sinai. He is a spine fellowship trained spine surgeon in clinical practice with over 20 years in clinical practice. Also is the Clinical Partner in the Orthopaedic Tissue Engineering Laboratory Cedars-Sinai.

Bae earned a bachelor's degree in biomechanics from the Columbia University School of Engineering and Applied Sciences. He then went on to earn his medical degree, cum laude, at Yale University School of Medicine, residency. Dr. Bae completed his surgical internship at North Shore University Hospital and his orthopaedic surgical residency at the Hospital for Special Surgery in New York. He completed his spine fellowship at Case Western Hospital in Cleveland, OH under the mentorship of late Henry H. Bohlman, MD.

He is a national leader in minimally invasive surgery, motion preservation technology, artificial disc replacement, and nonfusion technologies. He is also a leading researcher in cell-based repair of degenerative discs, growth factors, and biomaterials for engineering of spinal tissues, intervertebral disc, bone, and instrumentation design for artificial disc replacement.

Bae has published extensively in top journals and has presented at many national and international meetings. He was among the first to use growth factor tissue engineering for intervertebral discs, perform multilevel artificial disc replacement for both the lumbar and cervical spine, and surgery employing novel medical devices for dynamic stabilization and minimally invasive spine surgery. Research interest areas are cells, growth factors, and materials for engineering of spinal tissues, intervertebral disc, and instrumentation design for artificial disc replacement.

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repair of degenerative disc disease and the use of growth factors to treat spinal cord injury, Bae has been published extensively in top journals and has presented at many national and international meetings. He was among the first to use growth factor tissue engineering for intervertebral discs, multilevel artificial disc replacement for both the lumbar and cervical spine, and other novel medical devices for dynamic stabilization and minimally invasive spine surgery. Bae earned a bachelor's degree in biomechanics from the Columbia University School of Engineering and Applied Sciences. He then went on to earn his medical degree, cum laude, at Yale University School of Medicine. His research interest is on the regulation of inflammatory and catabolic proteins in human intervertebral disc cells and tissues with and without mechanical stimulation. In addition, Bae is testing potential biological treatments for a reduction of inflammatory and catabolic processes in vitro and in vivo.