

Curriculum Vitae



Richard Lieber

Prof. Dr. Richard Lieber earned his Ph.D. in Biophysics from U.C. Davis in 1982 developing a theory of light diffraction that was applied to mechanical studies of single muscle cells. He joined the faculty of U.C. San Diego in 1985 where he continues studies of structure-function relationships in skeletal muscle. Dr. Lieber's work is characterized by its interdisciplinary nature—an approach that is relevant to those who study biomechanics.

He has published over 180 articles in journals ranging from the very basic such as *The Biophysical Journal* and *The Journal of Cell Biology* to those more applied such as *The Journal of Hand Surgery* and *Clinical Orthopaedics and Related Research*. More recently, he has implemented more modern tools of molecular biology in his work trying to understand gene expression patterns in muscles subjected to high stress and in performing mechanistic studies of muscles in which genes are introduced to muscles in an attempt to change their mechanical function. It is these types of interdisciplinary biomechanical studies that Dr. Lieber hopes can inspire future investigators interested in biomechanics.

Dr. Lieber has been honored by the American Academy of Orthopaedic Surgeons (Kappa Delta Award), the American Bone and Joint Surgeons (Nicolas Andry Award) the American College of Sports Medicine (Fellow), and the Council for the International Exchange of Scholars (Fulbright Fellowship) and the American Society for Biomechanics (Borelli Award) primarily for his work with long-time colleague Jan Fridén. His research laboratory is supported primarily by grants from the Department of Veterans Affairs and National Institutes of Health.

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