



A. Hari Reddi, M.S., Ph.D.

Clinical Interests

Regeneration of Bone and Cartilage. Stem Cells.

Dr. Reddi was the first recipient of the Marshall Urist Award for Excellence in Tissue Regeneration Research. Established in 1996 by the Orthopaedic Research Society, the award honors a society member whose research excellence in tissue regeneration mirrors the accomplishments of Marshall Urist, a pioneer in the field of tissue engineering. Dr. Reddi's research played an indispensable role in the identification of bone morphogenetic proteins (BMPs) that cause new bone to grow. His research interests are the regeneration and repair of bone, cartilage and meniscus. Current projects are bone morphogenetic proteins and cartilage repair. He also has research interests in the cellular and molecular basis of cartilage repair and osteoarthritis; the cellular and developmental biology of bone and osteoporosis; the tissue engineering of bone and cartilage based on biomaterials and biotechnology; the role of extracellular matrix and growth factors in cell differentiation and morphogenesis of bone and cartilage; and hormonal regulation of cartilage, bone and bone marrow development.

Title

Director of the Center for Tissue Regeneration and Repair
Director, Lawrence Ellison Musculoskeletal Research Center
Distinguished Professor
Vice Chairman, Department of Orthopaedic Surgery

Specialty

Orthopaedic Surgery

Department

[Orthopaedic Surgery](#)

Division

Orthopaedic Research

Education

Ph.D., University of Delhi, Delhi, India, 1966
B.S., Annamalai University, Annamalai Nagar, India, 1961

Fellowships

Johns Hopkins University School of Medicine, Baltimore, Maryland

Professional Memberships

American Academy of Orthopaedic Surgeons
American Association for the Advancement of Science
American Physiological Society
American Society for Biochemistry and Molecular Biology
American Society for Cell Biology
American Society of Bone and Mineral Research



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Orthopaedic Research Society

The Endocrine Society

Select Recent Publications

McNary SM, Athanasiou KA, Reddi AH. Engineering lubrication in articular cartilage. *Tissue Eng Part B Rev.* 2012 Apr;18(2):88-100. Epub 2012 Jan 6.

Neu CP, Reddi AH, Komvopoulos K, Schmid TM, Di Cesare PE. Increased friction coefficient and superficial zone protein expression in patients with advanced osteoarthritis. *Arthritis Rheum.* 2010 Sep;62(9):2680-7.

Chan SM, Neu CP, Duraine G, Komvopoulos K, Reddi AH. Atomic force microscope investigation of the boundary-lubricant layer in articular cartilage. *Osteoarthritis Cartilage.* 2010 Jul;18(7):956-63. Epub 2010 Apr 22.

Nakagawa T, Lee SY, Reddi AH. Induction of chondrogenesis from human embryonic stem cells without embryoid body formation by bone morphogenetic protein 7 and transforming growth factor beta1. *Arthritis Rheum.* 2009 Dec;60(12):3686-92.

Niikura T, Reddi AH. Differential regulation of lubricin/superficial zone protein by transforming growth factor beta/bone morphogenetic protein superfamily members in articular chondrocytes and synoviocytes. *Arthritis Rheum.* 2007 Jul;56(7):2312-21.

Reddi AH. Role of morphogenetic proteins in skeletal tissue engineering and regeneration. *Nat Biotechnol.* 1998 Mar;16(3):247-52.

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