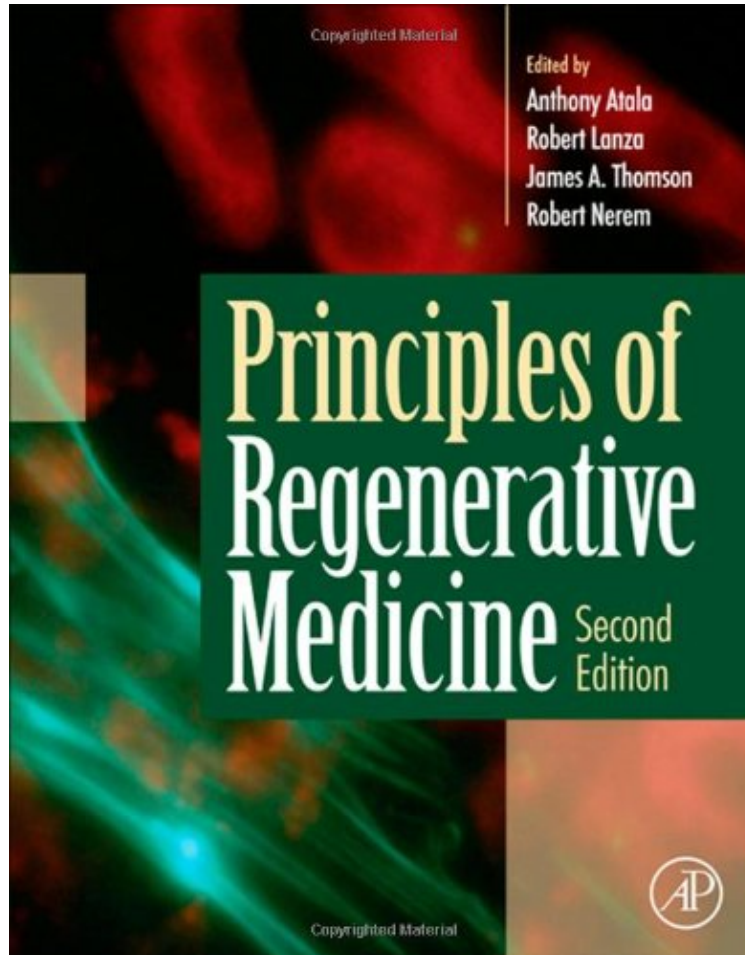


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## Principles of Regenerative Medicine, Second Edition

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Virtually any disease that results from malfunctioning, damaged, or failing tissues may be potentially cured through regenerative medicine therapies, by either regenerating the damaged tissues in vivo, or by growing the tissues and organs in vitro and implanting them into the patient. *Principles of Regenerative Medicine* discusses the latest advances in technology and medicine for replacing tissues and organs damaged by disease and of developing therapies for previously untreatable conditions, such as diabetes, heart disease, liver disease, and renal failure. Key for all researchers and institutions in Stem Cell Biology, Bioengineering, and Developmental Biology The first of its kind to offer an advanced understanding of the latest technologies in regenerative medicine New discoveries from leading researchers on restoration of diseased tissues and organs

About the Author Anthony Atala, M.D., is the Director of the Wake Forest Institute for Regenerative Medicine, and the W.H. Boyce Professor and Chair of the Department of Urology at Wake Forest University. Dr. Atala is a practicing surgeon and a researcher in the area of regenerative medicine. His current work focuses on growing new human cells, tissues and organs. Dr. Atala works with several journals and serves in various roles, including Editor-in-Chief of *Current Stem Cell Research and Therapy*, and *Therapeutic Advances in Urology*; as Associate Editor of the *Journal of Tissue Engineering and Regenerative Medicine*, *The Journal of Rejuvenation Research*, *Nanotechnology in Engineering and Medicine*, *Gene Therapy and Regulation*, and *Current s in Urology*; as Executive Board Member or Section Editor of the journal *Tissue Engineering and International Journal of Artificial Organs*, and as Editorial Board member of the *International Journal of Stem Cells*, *Stem Cell Letters*, *Expert Opinion on Biological Therapy*, *Biomedical Materials*, *Recent Patents on Regenerative Medicine*, the *Journal of the American College of Surgeons*, the *Journal of Urology*, *BMC Urology*, *Urology*, and *Current Opinion in Urology*. Dr. Atala is a recipient of the US Congress funded Christopher Columbus Foundation Award, bestowed on a living American who is currently working on a discovery that will significantly affect society, and the Gold Cystoscope Award for advances in his field. Dr. Atala was named by *Scientific American* as a Medical Treatments Leader of the Year for his contributions to the fields of cell, tissue and organ regeneration. In 2006, he was named by *Fast Company* magazine as one of 50 people who will change how we work and live over the next 10 years. Dr. Atala's work was listed as *Discover Magazine's* Number 1 Top Science Story of the Year in the field of medicine, and as *Time Magazine's* top 10 medical breakthroughs of the year in 2007. A *Time Magazine* poll ranked Dr. Atala as the 56th most influential person of the year in 2007. *Esquire Magazine* in 2008 named Dr. Atala one of the 75 most influential persons of the 21st century. *Fast Company Magazine* named Dr. Atala one of 100 Most Creative People in Business in 2009. Dr. Atala was featured in *U.S. News World Report* as one of 14 Medical Pioneers Who Arent Holding Back. Dr. Atala has led or served several national professional and government committees, including the National Institutes of Health working group on Cells and Developmental Biology, and the National Institutes of Health Bioengineering Consortium. He is currently an NIH Quantum Grant awardee. Dr. Atala heads a team of over 250 physicians and researchers. Ten applications of technologies developed in Dr. Atala's laboratory have been used clinically. He is the editor of nine books, including *Minimally Invasive Urology*, *Methods of Tissue Engineering*, *Principles of Regenerative Medicine*, and *Foundations of Regenerative Medicine*, and has published more than 300 journal articles and has applied for or received over 200 national and international patents. Robert Lanza, M.D. is currently Chief Scientific Officer at Advanced Cell Technology, and Adjunct Professor of Surgical Sciences at Wake Forest University School of Medicine. He has several hundred scientific publications and patents, and over 30 books, including *Principles of Tissue Engineering* (1st through 4th Editions), *Methods of Tissue Engineering*, *Principles of Cloning* (1st and 2nd Editions), *Essentials of Stem Cell Biology* (1st and 2nd Editions), *XENO*, *Yearbook of Cell Tissue Transplantation*, *One World: The Health Survival of the Human Species in the 21st Century* (as editor, with forewords by C. Everett Koop and former President Jimmy Carter), and *Medical Science the Advancement of World Health*. Dr. Lanza received his B.A. and M.D. degrees from the University of Pennsylvania, where he was both a University Scholar and Benjamin Franklin Scholar. He is a former Fulbright Scholar, and studied as a student in the laboratory of Richard Hynes (MIT), Jonas Salk (The Salk Institute), and Nobel laureates Gerald Edelman (Rockefeller University) and Rodney Porter (Oxford University). He also worked closely (and coauthored a series of papers) with the late Harvard psychologist B.F. Skinner and heart transplant pioneer Christiaan Barnard. Dr. Lanza's current area of research focuses on the use of stem cells in regenerative medicine.