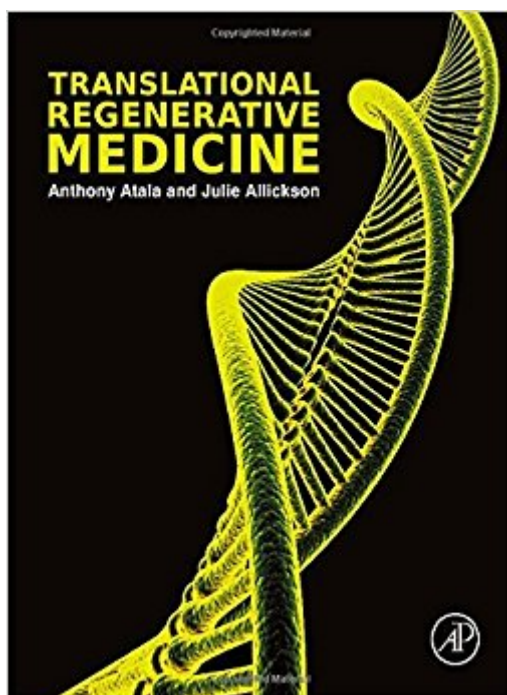


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# Translational Regenerative Medicine



## Synopsis

Translational Regenerative Medicine is a reference book that outlines the life cycle for effective implementation of discoveries in the dynamic field of regenerative medicine. By addressing science, technology, development, regulatory, manufacturing, intellectual property, investment, financial, and clinical aspects of the field, this work takes a holistic look at the translation of science and disseminates knowledge for practical use of regenerative medicine tools, therapeutics, and diagnostics. Incorporating contributions from leaders in the fields of translational science across academia, industry, and government, this book establishes a more fluid transition for rapid translation of research to enhance human health and well-being. Provides formulaic coverage of the landscape, process development, manufacturing, challenges, evaluation, and regulatory aspects of the most promising regenerative medicine clinical applications. Covers clinical aspects of regenerative medicine related to skin, cartilage, tendons, ligaments, joints, bone, fat, muscle, vascular system, hematopoietic /immune system, peripheral nerve, central nervous system, endocrine system, ophthalmic system, auditory system, oral system, respiratory system, cardiac system, renal system, hepatic system, gastrointestinal system, genitourinary system. Identifies effective, proven tools and metrics to identify and pursue clinical and commercial regenerative medicine.

## Book Information

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## Customer Reviews

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 Reviews 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 Review 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 Aren't 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.

Excellent book. Congratulation to dr. Atala and his colleagues.

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