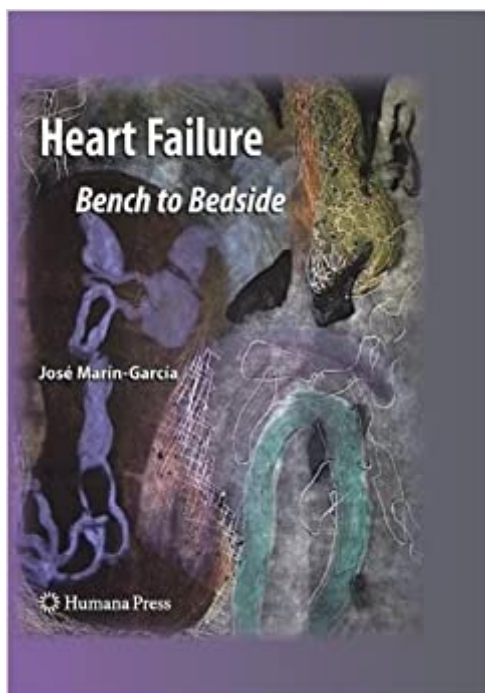


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# Heart Failure: Bench To Bedside (Contemporary Cardiology)



## Synopsis

Heart Failure (HF) is the final and common pathway of all cardiovascular diseases. Heart Failure: Bench to Bedside helps address a significant need to develop new paradigms and to identify novel therapeutic targets for this pervasive disease. An authoritative contribution to the field, this book provides a detailed description of new findings and emerging methodologies, as well as a critical clinical evaluation of the complex HF syndrome and future therapies. Heart Failure: Bench to Bedside includes a primer on gene profiling and bioenergetics of the normal heart and a discussion of the molecular, genetic, biochemical and cellular techniques critical to understanding HF. Further chapters discuss cardiac remodeling, oxidative stress, and alterations in other organs and systems that are often associated with HF. This book thoughtfully evaluates current and forthcoming diagnostic techniques and therapies, pharmaceutical and pharmacogenomic-based individualized medicine, gene and cell-based therapies, and the search for new frontiers. Heart Failure: Bench to Bedside presents a clear view of up-to-date approaches to clinical diagnosis and treatment, as well as offering insightful critiques of original and creative scientific thoughts on post-genomic HF research.

## Book Information

Series: Contemporary Cardiology

Hardcover: 470 pages

Publisher: Humana Press; 2010 edition (June 29, 2010)

Language: English

ISBN-10: 1607611465

ISBN-13: 978-1607611462

Product Dimensions: 10.8 x 8.3 x 1.3 inches

Shipping Weight: 3 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars 1 customer review

Best Sellers Rank: #1,796,086 in Books (See Top 100 in Books) #90 in [Books > Textbooks > Medicine & Health Sciences > Medicine > Clinical > Surgery > Vascular](#) #302 in [Books > Medical Books > Medicine > Surgery > Thoracic & Vascular](#) #1060 in [Books > Textbooks > Medicine & Health Sciences > Medicine > Clinical > Cardiology](#)

## Customer Reviews

From the reviews: "A clear and comprehensive review is desperately needed to lessen the time readers spend searching the Internet or rummaging through massive numbers of clinical trials.

the text still can appeal to any health science student, physician-in-training, practicing physician, and of course, cardiologist. In fact, this text is strongly recommended for cardiologists pursuing additional training in cardiac transplantation and care of advanced heart failure. This book will serve as a useful reference and could become a powerful tool for cardiology. (Joseph Sam Owen, Journal of the American Medical Association, February, 2011) "This book tackles a broad array of topics in heart failure in an organized manner. It is most useful to specialists in heart failure, especially those with an interest in molecular and cell biology research, or those interested in translating basic science research into clinical investigations. The book will be of interest to cardiologists in training as well as adult and pediatric cardiologists. It is unique as it adds gene expression and how it may play a role in the heart failure disease process. (Joaquin Crespo, Doody's Review Service, September, 2010)

Heart Failure (HF) is the final and common pathway of all cardiovascular diseases. Heart Failure: Bench to Bedside helps address a significant need to develop new paradigms and to identify novel therapeutic targets for this pervasive disease. An authoritative contribution to the field, this book provides a detailed description of new findings and emerging methodologies, as well as a critical clinical evaluation of the complex HF syndrome and future therapies. Heart Failure: Bench to Bedside includes a primer on gene profiling and bioenergetics of the normal heart and a discussion of the molecular, genetic, biochemical and cellular techniques critical to understanding HF. Further chapters discuss cardiac remodeling, oxidative stress, and alterations in other organs and systems that are often associated with HF. Heart Failure: Bench to Bedside thoughtfully evaluates current and forthcoming diagnostic techniques and therapies, pharmaceutical and pharmacogenomic-based individualized medicine, gene and cell-based therapies, and the search for new frontiers. Heart Failure: Bench to Bedside presents a clear view of up-to-date approaches to clinical diagnosis and treatment, as well as offering insightful critiques of original and creative scientific thoughts on post-genomic HF research.

Book and Media Reviews  
JAMA. 2011;305(6):622-623. doi: 10.1001/jama.2011.114  
Heart Failure: Bench to Bedside  
By José María Marin-Garcia  
470 pp, \$269  
Totowa, NJ, Humana Press, 2010  
ISBN-13: 978-1-6076-1146-2  
Heart failure is a complex public health problem around the world and is associated with frequent hospitalizations and high mortality. With the marked increase in new information and new mechanical and electrical therapeutic modalities for treatment of heart failure,

even the practicing cardiologist can find the latest advances and research overwhelming. Hence, *Heart Failure: Bench to Bedside* comes at a perfect time: a clear and comprehensive review is desperately needed to lessen the time readers spend searching the Internet or rummaging through massive numbers of clinical trials. This enormous task may seem overwhelming, but the editor has done a brilliant job, presenting a clear and up-to-date approach to the diagnosis and treatment of heart failure as well as skillfully delving into the details of heart failure at the cellular level. The book is divided into 11 sections, each comprising 1 to 5 chapters. The end of each chapter includes a summary of the important highlights discussed, allowing for quick review when the busy physician is pushed for time. Sections 1 to 5 begin with a well-designed explanation on the role of calcium cycling and gene profiling, followed by in-depth analysis and insight into signaling cascades and cellular changes in heart failure. Section 4 deals exclusively with animal models of heart failure, reminding the reader of the vital importance of animal research in advancing knowledge of heart failure. Sections 6 to 10 cover a broad spectrum, from heart failure in children to the failing heart in elderly persons, and conclude with gene therapy and myocardial cell-based regeneration. The book concludes with a summary of new technologies such as proteomics and mitochondrial medicine. In particular, I was impressed with the superb description in chapter 12 of the ramifications of heart failure on the surrounding periphery. Through the use of effective and clearly defined figures complemented by easy-to-read explanations, the author explains how the peripheral vasculature, inflammatory system, and renin-angiotensin-aldosterone system contribute to the progression of heart failure. Despite a valiant effort to describe this complex system, which is involved in the clinical syndrome of chronic heart failure, more work still needs to be done to understand peripheral changes as they relate to heart failure. Certain areas of the text are quite detailed at the cellular level, but the text still can appeal to any health science student, physician-in-training, practicing physician, and of course, cardiologist. In fact, this text is strongly recommended for cardiologists pursuing additional training in cardiac transplantation and care of advanced heart failure. The editor of *Heart Failure: Bench to Bedside* has done an excellent job of completing a challenging task. This book will serve as a useful reference and could become a powerful tool for cardiology board review, especially the heart failure board examinations recently been developed by the American Board of Internal Medicine. Joseph Sam Owen, MD, Reviewer Ochsner Heart and Vascular Institute New Orleans, Louisiana [josowen@ochsner.org](mailto:josowen@ochsner.org) Conflict of Interest Disclosures: The author has completed and submitted the ICMJE Form for Disclosure of Potential Conflicts of Interest and none were reported. Book and Media Reviews Section Editor: John L. Zeller, MD, PhD, Contributing Editor.

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