

**Humana**1st
edition

1st ed. 2021, XIII, 346 p.
83 illus., 69 illus. in color.
With online files/update.

Printed book

Hardcover

Book w. online files/update

Hardcover

ISBN 978-1-0716-0667-4

£ 149,99 | CHF 200,50 | 169,99 € |
186,99 € (A) | 181,89 € (D)

Available

Discount group

Standard (0)

Product category

Contributed volume

Series

Methods in Molecular Biology

Life Sciences : Regenerative Medicine/Tissue Engineering

Poss, Kenneth D., Kühn, Bernhard (Eds.)

Cardiac Regeneration

Methods and Protocols

- Includes cutting-edge techniques
- Provides step-by-step detail essential for reproducible results
- Contains key implementation advice from the experts

This detailed book addresses major goals of regenerative medicine and the cardiovascular research community with techniques to replenish lost cardiomyocytes, avoid scar-associated pathology, and improve myocardial infarction (MI) outcomes. The collection begins with a section on cardiac injury models, including zebrafish, neonatal and adult mice, and pigs, and continues with sections covering culturing cardiomyocytes from different species as well as methods for labeling or manipulation of cardiac tissue for the purpose of answering questions in regeneration. Written for the highly successful Methods in Molecular Biology series, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Authoritative and practical, Cardiac Regeneration: Methods and Protocols provides the latest models and methods used in the field of heart regeneration, designed for researchers interested in establishing these assays in their laboratories to reproduce or extend findings, and for familiarizing themselves with the field if it is new to them. The chapter "Ventricular Cryoinjury as a Model to Study Heart Regeneration in Zebrafish" is available open access under a Creative Commons Attribution 4.0 International License via link [springer.com](https://www.springer.com).

Order online at [springer.com/booksellers](https://www.springer.com/booksellers)**Springer Nature Customer Service Center GmbH**

Customer Service

Tiergartenstrasse 15-17

69121 Heidelberg

Germany

T: +49 (0)6221 345-4301

row-booksellers@springernature.com

ISBN 978-1-0716-0667-4 / BIC: PSF / SPRINGER NATURE: SCL16080

Prices and other details are subject to change without notice. All errors and omissions excepted. Americas: Tax will be added where applicable. Canadian residents please add PST, QST or GST. Please add \$5.00 for shipping one book and \$ 1.00 for each additional book. Outside the US and Canada add \$ 10.00 for first book, \$5.00 for each additional book. If an order cannot be fulfilled within 90 days, payment will be refunded upon request. Prices are payable in US currency or its equivalent.

Part of **SPRINGER NATURE**