



BOOK NEWS from Elsevier

エルゼビアよりブックシリーズのご案内

複数の編集者がチームで担当し、年に最低1冊以上発行されるジャーナルを補完する必須文献です。共通の特性を持つトピックのさまざまな面に重点を置き、ジャーナルより長い記述でテーマを掘り下げたり、成熟した研究分野の権威ある情報を集め、手法について参照しやすくまとめています。

ScienceDirect

生物化学・遺伝学・分子生物学



Methods in Cell Biology

ISSN: 0091-679X

Series Editor:

Leslie Wilson, University of California, Santa Barbara, USA

Phong Tran, University of Pennsylvania, Philadelphia, USA and
Institute Curie, Paris, France

1964年創刊。細胞生物学研究における手法とプロトコルを提供する最も信頼性の高い文献の1つとされ、テーマごとの各巻で立証された最新の技法や分析的アプローチを提供している。

For over thirty years, *Methods in Cell Biology* has helped researchers answer the question "What method should I use to study this cell biology problem?" Edited by leaders in the field, each thematic volume provides proven, state-of-art techniques, along with relevant historical background and theory, to aid researchers in efficient design and effective implementation of experimental methodologies. Over its many years of publication, *Methods in Cell Biology* has built up a deep library of biological methods to study model developmental organisms, organelles and cell systems, as well as comprehensive coverage of microscopy and other analytical approaches.

CiteScore 2019: 13.0

Impact Factor 2019: 1.441 (Copyright ISI Journal Citation Report)

Praise for the Series: "The series is invaluable for workers at all levels of cell biology." - NATURE

Upcoming / Recent Volumes

2020年刊行

Volume 160: Plant Cell Biology

Serial Volume Editors: Ram Dixit, Elizabeth Haswell and Charles Anderson

eBook ISBN: 9780128215340 Hardcover ISBN: 978-0-12-821533-3

Plant Cell Biology, volume 160 in "Methods in Cell Biology", includes chapters on modern experimental procedures and applications developed for research in the broad area of plant cell biology. Topics covered in this volume include techniques for imaging and analyzing membrane dynamics and movement across membranes; cell wall composition, structure and mechanics; cytoskeleton dynamics and organization; cell development; ion channel physiology; cell mechanics; and methods related to quantifying cell morphogenesis.

Volume 159: Human pluripotent stem cell derived organoid models

Editor: Jason Spence

eBook ISBN: 9780128215326 Hardcover ISBN: 978-0-12-821531-9

Organoids are complex three-dimensional in vitro organ-like model systems. Organoids can be derived from pluripotent stem cells or primary donor tissue and have been used to address fundamental questions about development, stem cell biology and organ regeneration. Human organoids have invigorated new exploration into the cellular makeup of human organs during development, in the adult and during disease. Efforts to improve complexity in organoid systems, and to make organoid systems more robust, reproducible and controlled have prompted continued refinement of methods used to generate and culture organoids.

Upcoming / Recent Volumes

2020 年刊行

Volume 158: Methods in Cell Biology

Serial Volume Editors: Leslie Wilson and Phong Tran

eBook ISBN: 9780128200094 Hardcover ISBN: 978-0-12-820008-7

Methods in Cell Biology, Volume 158, the latest release in this series, highlights new advances in the field, with this release covering How to orient cells in micro-cavities for high resolution imaging of cytokinesis and lumen formation, A body-on-a-chip (BOC) system for studying gut-liver interaction, Manipulating cultured mammalian cells for mitosis research, Live-cell FLIM-FRET using a commercially available system, A comparative analysis of methods to measure kinetochore-microtubule attachment stability, A workflow for visualizing human cancer biopsies using large-format electron microscopy, Isolation of stage-specific germ cells using facts in drosophila gemarium, Computational analysis of filament polymerization dynamics in cytoskeletal networks, and more.

Volume 157: Cell-Derived Matrices Part B

Serial Volume Editors: David Caballero, Subhas Kundu and Rui Reis

eBook ISBN: 9780128201756 Hardcover ISBN: 978-0-12-820174-9

Cell-Derived Matrices Part B, Volume 157 provides a detailed description and step-by-step methods surrounding the use of three-dimensional cell-derived matrices for tissue engineering applications. Chapters in this new release include Glaucomatous cell-derived matrices, Cardiac tissue explants decellularization, Decellularization of skin matrices for wound healing applications, Guiding axonal growth by aligned cell-derived matrices for spinal cord injury regeneration, Human Mesenchymal Stem Cell-Derived Matrices for Enhanced Osteoregeneration, Amniotic decellularized matrices, Three-Dimensional (3-D) Tissue Reconstruction without Scaffold, Tubular cell-derived matrices for TERM applications, and more.

Volume 156: Cell-derived Matrices part A

Serial Editor: David Caballero, Subhas Kundu and Rui Reis

eBook ISBN: 9780128201732 Hardcover ISBN: 978-0-12-820172-5

Cell-Derived Matrices, Part A, Volume 156, provides a detailed description and step-by-step methods surrounding the use of three-dimensional cell-derived matrices for tissue engineering applications. Biochemical, biophysical and cell biological approaches are presented, along with sample results. Specific chapters cover Anisotropic cell-derived matrices with controlled 3D architecture, Generation of functional fluorescently-labelled cell-derived matrices by means of genetically-modified fibroblasts, Bi-layered cell-derived matrices, Engineering clinically-relevant cell-derived matrices using primary fibroblasts, Decellularized matrices for bioprinting applications, and much more.

Volume 155: Mitochondria biology

Serial Editor: Liza Pon and Eric Schon

eBook ISBN: 9780128202296 Hardcover ISBN: 978-0-12-820228-9

Methods in Cell Biology Volume 155 provides an update on the step-by-step "how-to" methods to study mitochondrial structure, function and biogenesis contained in the first two editions. As in the previous editions, biochemical, cell biological, and genetic approaches are presented along with sample results, interpretations, and pitfalls for each method. New chapters in this update include Isolation of Mitochondria and Analysis of Mitochondrial Compartments, Isolation of Mitochondria from Animal Cells and Yeast, Isolation and Characterization of Mitochondria-Associated ER Membranes, Import of Proteins into Mitochondria, Proximity Labeling Methods to Assess Protein-Protein Interactions in Yeast Mitochondria, and more.

出版時期及び価格につきましては、予告なく変更となる場合がございます。予めご了承ください。
本製品はリバースチャージ方式による消費税課税対象品です。

内容に関するご照会、資料のご請求は下記へご用命ください。

エルゼビア・ジャパン株式会社 〒106-0044 東京都港区東麻布 1-9-15 東麻布 1 丁目ビル 4 階

Research Solutions Tel: 03-5561-5034 E-mail: jpinfo@elsevier.com

製品情報: <https://www.elsevier.com/ja-jp/solutions/sciencedirect/sciencedirect-ebook>

書誌情報: <https://www.elsevier.com/ja-jp/books-and-journals>