

Humana

1st
edition

1st ed. 2016, XII, 394 p.

Printed book

Hardcover

Printed book

Hardcover

ISBN 978-1-4939-2965-8

£ 129,99 | CHF 177,00 | 149,99 € |
164,99 € (A) | 160,49 € (D)

Available

Discount group

Standard (0)

Product category

Contributed volume

Series

Methods in Molecular Biology

Other renditions

Softcover

ISBN 978-1-4939-4993-9

Softcover

ISBN 978-1-4939-2967-2

Life Sciences : Cell Biology

Feng, X.-H., Xu, P., Lin, X. (Eds.)

TGF- Signaling

Methods and Protocols

- Includes cutting-edge methods and protocols
- Provides step-by-step detail essential for reproducible results
- Contains key notes and implementation advice from the experts

This volume details up-to-date information and attempts to take the reader into the exciting realm of TGF- from the basic principles to the practical applications. Chapters provide basic introduction of TGF- signaling from the cell surface to the nucleus, methods and techniques for the investigation of TGF- signaling mechanism including receptors, Smads, intracellular kinases, microRNA, epigenetic regulation, post-translational regulations, non-Smad pathway; the physiological implications including those in cell cycle arrest, epithelial-mesenchymal transition, endothelial cells, adipogenesis, Th differentiation, stem cell, bone remodeling, ovary, zebrafish development, and frog animal capping; and the methodologies including metastasis imaging, 3D morphogenesis, membrane receptor quantification, conditional knockout, bone remodeling, kinase and phosphatase assays, BIFC interaction assays, and genome-wide siRNA screen. Written in the highly successful Methods in Molecular Biology series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and key tips on troubleshooting and avoiding known pitfalls. Authoritative and practical, TGF-Beta Signaling: Methods and Protocols aims to ensure successful results in the further study of this vital field.

Order online at springer.com/booksellers**Springer Nature Customer Service Center GmbH**

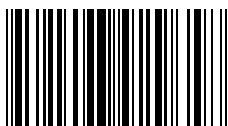
Customer Service

Tiergartenstrasse 15-17

69121 Heidelberg

Germany

T: +49 (0)6221 345-4301

row-booksellers@springernature.com

ISBN 978-1-4939-2965-8 / BIC: PSF / SPRINGER NATURE: SCL16008

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**