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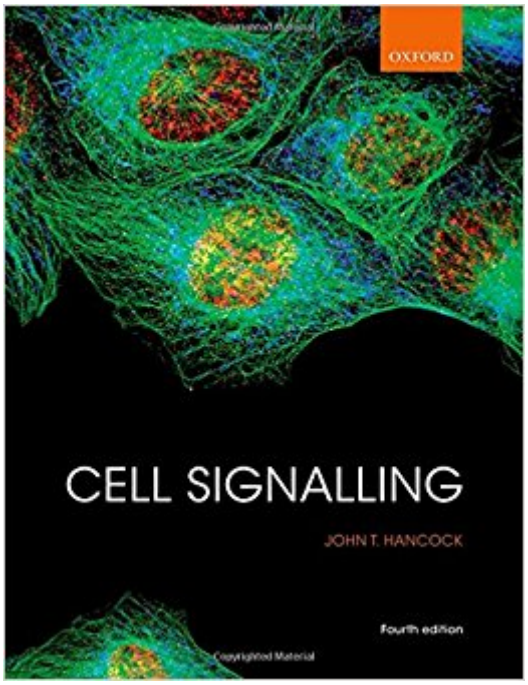

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Synopsis

Signaling within and between cells is one of the most important aspects of modern biochemistry and cell biology. An understanding of signalling pathways is vital to a wide range of biologists, from those who are investigating the causes of cancer, to those who are concerned about the impact of environmental pollutants on the ecosystem. The way cells adapt to changing environments, and the way cell dysfunction causes disease, is underpinned by cell signalling events. Cell Signalling presents a carefully structured and highly accessible introduction to this intricate and rapidly growing field. Starting with an overview of cell signalling and highlighting its importance in many biological systems, the book goes on to explore the key components of extracellular and intracellular signalling mechanisms, before examining how these components come together to create signalling pathways. A focus on common components and concepts, rather than mechanistic detail, allows the reader to gain a thorough understanding of the principles that underpin cell signalling. Online Resource CentreThe Online Resource Centre to accompany Cell Signalling features:For students:- Links to useful websitesFor registered adopters of the text:- Journal Clubs: suggested research papers and discussion questions linked to topics featured in the book- Figures from the book in electronic format for use in lectures

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Customer Reviews

"A good overview of the key underlying concepts and principles, allowing students to gain a solid grounding in the subject. I like the Case Study sections which link to research findings; these

provide relevant context and help students to understand the key message in complex scientificarticles." --Dr Andrew Chantry, University of East Anglia"It is really the best specialist text for undergraduates on this topic I have seen." --Dr Fergus Doherty, University of NottinghamReview from previous edition: "John Hancock's Cell Signalling is a straightforward introduction to a rapidly expanding field of biology. Its unintimidating writing style, simple and uncluttered figures, and competitive price make it a wonderful introductory text for undergraduates." --Dr Laura K. Palmer, Penn State UniversityReview from previous edition: "Complexity and specificity are the hallmarks of cell signalling, yet Hancock in this third edition has gone a long way to simplify these complicated processes. His signalling examples are clever and well-conceived, his writing descriptive and his passion for hissubject infectious ... this is marvellous value for money and is a worthy companion to an undergraduate/postgraduate reference library." --John P. Phelan, Waterford Institute of Technology, Ireland in The Biochemist

John T. Hancock is Professor of Cell Signalling at the University of the West of England. He has had a long standing interest in cell signalling and redox biology, and tries to bring these together as much as possible in his research. In addition to Cell Signalling, he has published several reviews on nitric oxide and reactive oxygen species, and most recently on hydrogen sulfide.

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