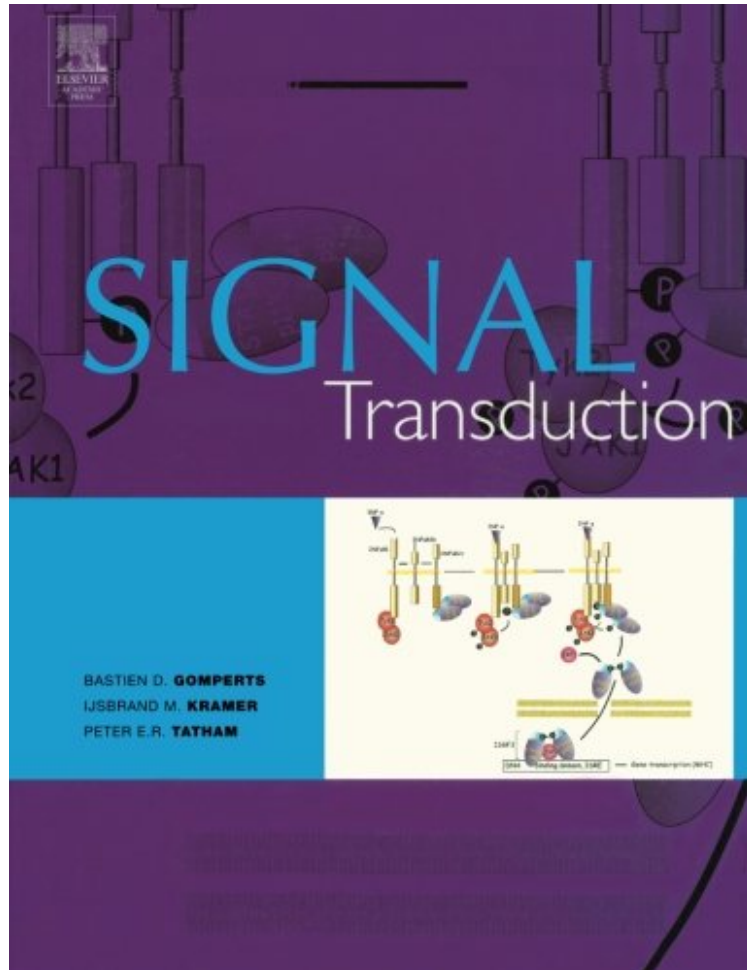


(Free) Signal Transduction

## Signal Transduction

*Bastien D. Gomperts, Ijsbrand M. Kramer, Peter E.R. Tatham*  
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**Bastien D. Gomperts, Ijsbrand M. Kramer, Peter E.R. Tatham : Signal Transduction** before purchasing it in order to gage whether or not it would be worth my time, and all praised Signal Transduction:

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Signal Transduction is a well-illustrated, coherent look at cellular signaling processes. Beginning with the basics, it explains how cells respond to external cues, hormones, growth factors, cytokines, cell surfaces, etc., and then shows

how these inputs are integrated and coordinated. The extensive color artwork provides the reader with a clearer comprehension of key topics, and margin notes are incorporated to highlight milestones in the evolution of signal transduction. This book serves as an invaluable resource for advanced undergraduates, graduate researchers, and established scientists working in cell biology, pharmacology, immunology, and related fields. Coherent, precise text providing insight in depth to a subject that is central to cell biology and fundamental to many areas of biomedicine. Extensive conceptual colour artwork assists with the comprehension of key topics. Extensive referencing provides an invaluable link to the core and historical literature. Margin notes highlighting milestones in the evolution of our understanding of signalling mechanisms.

"Signal Transduction is indispensable for modern life sciences." --BIOELECTROCHEMISTRY (April 2003) "...most useful to senior undergrad and grad students entering the field, but will also provide a valuable reference for established researchers." -CELL "The text is strikingly comprehensive...Written with a single voice, the chapters integrate elegantly with one another, and provide the reader with both broad and comprehensive viewpoints...Remarkably current and up-to-date, the book promises to be a core text for graduate and advanced undergraduate courses in cell signaling and molecular cell biology, and a valuable reference book for all scientists whose work involves mechanisms of cell communication." --Michael B. Yaffe, M.I.T. From the Back Cover

Signal Transduction is a text reference on cellular signalling processes. Starting with the basics, it explains how cells respond to external cues (hormones, cytokines, neurotransmitters, adhesion molecules, extracellular matrix, etc), and shows how these inputs are integrated and co-ordinated. The first half of the book provides the conceptual framework, explaining the formation and action of second messengers, particularly cyclic nucleotides and calcium, and the mediation of signal pathways by GTP-binding proteins. The remaining chapters deal with the formation of complex signalling cascades employed by cytokines and adhesion molecules, starting at the membrane and ending in the nucleus, there to regulate gene transcription. In this context, growth is an important potential outcome and this has relevance to the cellular transformations that underlie cancer. The book ends with a description at the molecular level of how signalling proteins interact with their environment and with each other through their structural domains. Each main topic is introduced with a historical essay, detailing the sources key observations and experiments that set the scene for recent and current work.

About the Author  
Maarten Kramer is a professor at the University of Bordeaux, working in the European Institute of Chemistry and Biology (IECB). He holds a Bachelors and Masters degree in BioMedicine from the University of Utrecht, The Netherlands, with a one year research-excursion in the Department of Cell Biology at the University of Liverpool, UK. He did his Ph.D. at the University of Amsterdam, in the Central Laboratory of Blood transfusion services (Stichting Sanquin) and worked as a post-doctoral fellow at the Hubrecht Laboratory in Utrecht and at the University of Washington in Seattle. He then took a lecturer position at the Department of Pharmacology at University College London, where he taught Signal Transduction (with Bastien Gomperts and Pether Tatham) and Pharmacology. Both teaching activities have been documented in textbooks: Signal Transduction (3 editions) and Receptor Pharmacology (CRC Press/Taylor Francis Group, 3 editions). Most of his research centers on the theme of inflammation, starting with neutrophils and the NADPH oxidase, synovial fibroblasts and destruction of the joint and more recently podosomes formation and extracellular matrix destruction in vascular endothelium. He moved to the University of Bordeaux for family reasons and switched from Pharmacology to Cell Biology, with a strong contribution to an introductory course for 1st year university students. Given the important teaching load and the general low level of student engagement in higher education he started to investigate the reasons for student failure (finding out about their expectations and attitudes) and the role of images and animations in comprehension. Scientific publications, web-based multimedia resources and dramatically enhanced retention rates (from 33 to 85%) are the fruits of these activities. At the same time he organized with University College London and Universitat Pompeu Fabra, Barcelona, summer schools on Receptor and Signalling Mechanism. He has been co-director of two European Programmes (Interbio and Transbio) that aimed at enhancing industrial innovation in the biomedical sector in the South West European Region (SUDOE). For book/publicity purposes, image of the author by Maarten Kramer