

Cell Signalling

COVER TBC

# CELL SIGNALLING

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## KEY SELLING POINTS

- ◆ Clearly explains the theory behind the practice of cell signalling in human cells
- ◆ Value for money post graduate textbook

## BOOK INFORMATION

Price: c. £ 40.00  
ISBN 10: 1 904798 93 4  
Pub Date: February 2008  
Format: Paperback  
Extent: 1100 pages  
50 colour plates & 50 black and white  
Size: 246 mm x 180 mm

The book describes cell signalling in the context of human cells. It includes other experimental model systems fundamental to the various aspects of cell signalling. It describes both intracellular and extracellular signal transduction pathways, molecules involved in them and the interactions, how cell signalling is essential in the context of normal physiology of a cell and the organisms as well as in different pathological situations. Strategies to intervene pathological cell signalling and some applications of cell signalling in biotechnology are described.

### Salient features include:

- ◆ Concept of signal transduction
- ◆ Methods to study cell signalling
- ◆ Molecules involved in cell signalling
- ◆ Protein-protein interactions
- ◆ Structural modules necessary for molecular interactions
- ◆ Signalling by neurotransmitters, hormones, cytokines, growth factors, cell adhesion molecules and RNAs.
- ◆ Divergence and convergence of cell signalling
- ◆ Genome-wide cell signalling
- ◆ Its defects relevant to human diseases
- ◆ Applications of cell signalling for drug development.

A special feature of the book is a large number of easy-to-follow schematic representations for understanding complex signalling pathways.

The book attempts to emphasize the conceptual framework of cell signalling so that the cross-section of various cellular signal transduction pathways can be visualized.