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P. van der Geer, in Brenner's Encyclopedia of Genetics (Second Edition), 2013. Signal Transduction, Cellular Communication, and Perception of the Environment. Communication between cells in multicellular organisms is essential because this makes it possible for individual cells to coordinate their activities.

### Signal Transduction - an overview | ScienceDirect Topics

Hugh C Hemmings Jr, Jean-Antoine Girault, in Foundations of Anesthesia (Second Edition), 2006. PRINCIPLES OF CELLULAR SIGNALING. Signal transduction or cell signaling concerns the mechanisms by which biological information is transferred between cells. Functional coordination in complex multicellular organisms requires intercellular communication between a diverse range of specialized cell types in various tissues and organs.

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Chapter 2. An Introduction to Signal Transduction. Cells need ways to create symbolic representations of their (changing) environment; First messengers; First-messenger signals are ambiguous: their meaning is embedded in context; The plasma membrane barrier, membrane receptors, and signal transduction; Receptors and their ligands; Five types of receptors

### Signal Transduction - 3rd Edition - Elsevier

Signal transduction is the process by which a chemical or physical signal is transmitted through a cell as a series of molecular events, most commonly protein phosphorylation catalyzed by protein kinases, which ultimately results in a cellular response. Proteins responsible for detecting stimuli are generally termed receptors, although in some cases the term sensor is used.

### Signal transduction - Wikipedia

Integrins and Signal Transduction. As discussed in Chapters 11 and 12, the integrins are the major receptors responsible for the attachment of cells to the extracellular matrix. At two types of cell-matrix junctions (focal adhesions and hemidesmosomes), the integrins also interact with components of the cytoskeleton to provide a stable linkage between the extracellular matrix and adherent cells ...

**Signal Transduction and the Cytoskeleton - The Cell - NCBI ...**

David R. Fitzpatrick, ... Anne Kelso, in Encyclopedia of Immunology (Second Edition), 1998. Signal transduction. The signal transduction pathways that couple surface receptor stimulation to inducible cytokine gene expression have been most extensively studied in T cells. The common theme that has emerged is that a variety of distinct pathways converge at the level of transcription factor regulation to control cytokine gene transcription.

**Signal Transduction Pathway - an overview | ScienceDirect ...**

Biochemistry of Signal Transduction and Regulation Fifth, Completely Revised Edition. Author Gerhard Krauss Universität Bayreuth Biochemisches Laboratorium Universitätsstraße 30 95449 Bayreuth Germany 1st edition 1999 2nd edition 2001 3rd edition 2003 1st, corrected reprint 2005 4th edition 2008 All books published by Wiley-VCH are carefully ...

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Signal transduction occurs when an extracellular signaling molecule activates a cell surface receptor. In turn, this receptor alters intracellular molecules creating a response. There are two stages in this process: A signaling molecule activates a specific receptor protein on the cell membrane.

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Klingmüller, U, Schilling, M, Depner, S & D'Alessandro, LA 2013, Biological Foundations of Signal Transduction, Systems Biology and Aberrations in Disease. in Computational Systems Biology: From Molecular Mechanisms to Disease: Second Edition.

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