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Gerhard Krauss is Professor of Biochemistry at the University of Bayreuth (Germany). His research is centered on the mechanism of interaction of DNA binding proteins and their target DNA. He is also a gifted teacher and textbook

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author, and for many years has been the head of the university education committee of the German Society of Biochemistry and Molecular Biology (GBM).

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During signal
transduction, a signal
may have many
components. There is
the primary
messenger, which
may be a chemical

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Signal, electrical pulse, or even physical stimulation. Then, the receptor protein embedded in the cellular membrane must accept the signal. Upon receiving the signal, this protein goes through a conformational change. This changes its shape and thus,

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how it interacts with
the molecules around
it.

Signal Transduction And Regulation

Signal Transduction:
Definition, Pathways,
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The MAPK signal
transduction
cascades involve the
coordination of a
variety of
extracellular signals
that are initiated to

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control diverse cellular processes such as proliferation, differentiation, survival, development, stress response, and apoptosis. The ERK1/2 cascade primarily plays a role in proliferation and differentiation, however, there are situations where this

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cascade participates
in responses to stress
and apoptosis.

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Universität Bayreuth

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Signal transduction

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refers to all biochemical processes by which cells translate extracellular signals originating from their environment into specific responses. During the past 50 years, intensive research uncovered the enzymes and molecules that participate in this

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process (i.e.,
receptors, second
messengers,
phospholipases,
kinases,
phosphatases, etc.)
and delineated the
mechanisms by
which cells integrate
multiple signals.

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an overview |
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crystallography,

NMR, SAXS and

biophysical

characterization of

proteins in cellular

signal transduction

pathways that

control innate

immunity, protein

translation initiation

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and RNA interference
with emphasis on
molecular
mechanisms of
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Signal transduction
by a GPCR begins
with an inactive G
protein coupled to
the receptor; the G

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protein exists as a heterotrimer consisting of G α , G β , and G γ

subunits. Once the GPCR recognizes a ligand, the conformation of the receptor changes to activate the G α protein, causing G α to bind a molecule of GTP and dissociate from the other two G-

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protein subunits.

Transduction And Regulation

Signal transduction -
Wikipedia

The G protein-coupled receptor (GPCR) is a signaling receptor found in many cells throughout the body. It utilizes a second messenger system to convey signals to the cell. This means that,

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upon activation, the GPCR will activate second messenger molecules such as cAMP that will cause biochemical changes inside the cell.

Signal Transduction
Pathways -

Biochemistry

Signal Transduction

- The cell senses extra cellular signals:

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– Hormones,
pheromones, heat,
cold, light, osmotic
pressure,
concentration
change of glucose,
K⁺, Ca²⁺ or cAMP. •
and commutes them
in intracellular
signals: – Signalling
involves the same
type of molecular
modification as
metabolism:

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Lecture 7: Signal

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Signal transduction pathways regulate diverse processes in cell division, development, and differentiation. These pathways often

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involve cascades of
protein kinases and
their activation

typically results in
changes in gene
expression and
cellular activity.

Signal transduction
research in the
Department spans
many fields: cell cycle
regulation,
morphogen
signaling, pathogen-

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associated molecular
patterns, signaling in
the central nervous
system, regulation of
glucose and ion
transport ...

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Solution for 5.
Summarize the signal
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pathway. EXTRA-
CELLULAR FLUID
Signaling molecule
(first messenger) G
protein DAG GTP G
protein-coupled...

Answered: 5.

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