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platforms for G-protein-  
coupled receptors and  
certain tyrosine kinase  
receptors, rafts/caveolae  
can influence redox  
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Understanding of the  
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composition, and function of  
caveolae and lipid rafts as

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well as their relationship to each other, possible function in signaling, trafficking, and cancer immunology, and the role of caveolin-1 in tumor growth and progression.

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regulation of endocytosis.

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Abstract: Caveolae are flask-  
shaped invaginations of the

plasma membrane found in

numerous cell types and are  
particularly abundant in

endothelial cells and

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adipocytes. The lipid  
composition of caveolae  
largely matches that of  
lipid rafts microdomains  
that are particularly  
enriched in cholesterol,

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Caveolae are flask-shaped invaginations of the plasma membrane found in numerous

cell types and are particularly abundant in endothelial cells and adipocytes. The lipid

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Composition of caveolae  
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sphingomyelin,  
glycosphingolipids, and  
saturated fatty acids.

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Some proteins require

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interaction with caveolin,  
implying that such proteins  
will preferentially localize  
in caveolae (relative to

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lipid rafts, such as G s and G i, in the study of Oh & Schnitzer, 2001), while other proteins do not interact with caveolin and thus would be found in the lipid environment common to both lipid rafts and

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caveolae. As will be discussed below, the cell type in which a given signaling protein is expressed may also be a critical determinant of lipid raft or caveolar ...

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The evolving role of lipid rafts and caveolae in G protein ...

Cholesterol is a major constituent of lipid rafts and its concentration at the plasma membrane generally regulates raft-dependent



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phenomena such as signaling and endocytosis. Cholesterol is one of the key factors determining long-range protein mobility at the cell surface ( Kenworthy et al., 2004 ).

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caveolae largely matches  
that of lipid rafts

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microdomains that are particularly enriched in cholesterol, sphingomyelin, glycosphingolipids, and saturated fatty acids. Unlike lipid rafts, whose existence remains quite elusive in living cells,

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caveolae can be clearly  
distinguished by electron  
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In biology, caveolae (Latin  
for "little caves";

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Signal Transduction, which are a special type of lipid raft, are small (50-100 nanometer) invaginations of the plasma membrane in many vertebrate cell types, especially in endothelial cells, adipocytes and



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embryonic notochord cells.

They were originally discovered by E. Yamada in 1955. These flask-shaped structures are rich in proteins as well ...

Caveolae - Wikipedia

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Caveolins are synthesized as monomers and transported to the Golgi apparatus. During their subsequent transport through the secretory pathway, caveolins associate with lipid rafts and form oligomers (14-16 molecules).

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These oligomerized caveolins form the caveolae. The presence of caveolin leads to a local change in morphology of the membrane.

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Flotillin and caveolins can  
recruit signaling molecules  
into lipid rafts, thus  
playing an important role in

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neurotransmitter signal  
transduction. It has been  
proposed that these  
microdomains spatially  
organize signaling molecules  
to promote kinetically  
favorable interactions which  
are necessary for signal

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Cholesterol plays a critical  
role in differentiating and  
maintaining cell surface  
microdomains of differing  
lipid composition,

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particularly sphingolipid  
rafts. Cholesterol- and  
sphingolipid-rich rafts in  
association with a

structural protein,  
caveolin-1, form caveolae,  
flask-shaped invaginations  
in the plasma membrane.



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This keenly awaited first  
overview of the field  
represents a complete guide  
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important mammalian cell membrane organelles. Filling a huge gap in the primary literature, this book is the first to cover the subject in detail. Following an introduction by Kai Simons, the discoverer of lipid

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Caveolae are 50–100 nm flask-shaped invaginations of the plasma membrane that are primarily composed of cholesterol and

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Signal Transduction. Using modern electron microscopy techniques, caveolae can be observed as omega-shaped invaginations of the plasma membrane, fully-invaginated caveolae, grape-like clusters of interconnected

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caveolae (caveosome), or as transcellular channels as a consequence of the fusion of individual caveolae. The

caveolin gene family consists of three distinct members, namely Cav-1, Cav-2 and Cav-3. Cav-1 and Cav-2

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proteins are usually co-expressed and particularly abundant in epithelial, endothelial, and smooth muscle cells as well as adipocytes and fibroblasts. On the other hand, the Cav-3 protein appears to be muscle-



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specific and is therefore only expressed in smooth, skeletal and cardiac muscles. Caveolin proteins form high molecular weight homo- and/or hetero-oligomers and assume an unusual topology with both

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their N- and C-terminal  
domains facing the  
cytoplasm.

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Caveolae (latin for little  
caves) are small structures  
found at the surface of  
cells. They are responsible

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for the regulation of The  
important metabolic pathway.

As a consequence, they may  
play a critical role in

several human diseases such  
as atherosclerosis, cancer,  
diabetes, and muscular  
dystrophies. This book

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analyzes the role and function of caveolae in these aspects and serves as the first textbook currently available on caveolae/caveolin.

This book proposes an

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updated view of the current  
knowledge of the molecular  
and cellular mechanisms  
ensuring axon growth and  
guidance. The introductory  
chapter will remind the  
readers of all the features  
of a growth cone and the

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mechanisms controlling its growth. From there, one enters a fabulous journey with a growth cone, a Tom Thumb story filled with molecular encounters and complex interactions leading to one of the most fantastic

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developmental achievements:  
the nervous system wiring.

The fluid-mosaic model of  
membrane structure  
formulated by Singer and  
Nicolson in the early 1970s  
has proven to be a durable

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concept in terms of the principles governing the organization of the constituent lipids and proteins. During the past 30 or so years a great deal of information has accumulated on the composition of



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various cell membranes and how this is related to the different functions that membranes perform.

Nevertheless, the task of explaining particular functions at the molecular level has been hampered by

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lack of structural detail  
at the atomic level. The  
reason for this is primarily  
the difficulty of

crystallizing membrane  
proteins which require  
strategies that differ from  
those used to crystallize

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soluble proteins. The unique exception is bacteriorhodopsin of the purple membrane of Halobacterium salinarum which is interpolated into a membrane that is neither fluid nor in a mosaic

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configuration. To date only 50 or so membrane proteins have been characterised to atomic resolution by diffraction methods, in contrast to the vast data accumulated on soluble proteins. Another factor

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that has been difficult to explain is the reason why the lipid compliment of membranes is often extremely complex. Many hundreds of different molecular species of lipid can be identified in some membranes.

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Remarkably, the particular composition of each membrane appears to be maintained within relatively narrow limits and is distinguished from other morphologically-distinct membranes.

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