



Library Indian Institute of Science Education and Research Mohali



DSpace@IISERMohali (/jspui/)
/ Publications of IISER Mohali (/jspui/handle/123456789/4)
/ Research Articles (/jspui/handle/123456789/9)

Please use this identifier to cite or link to this item: <http://hdl.handle.net/123456789/2509>

Title:	BAR Domains and BAR Domain Superfamily Proteins
Authors:	Sharma, Mahak (/jspui/browse?type=author&value=Sharma%2C+Mahak) Caplan, S. (/jspui/browse?type=author&value=Caplan%2C+S.)
Keywords:	BAR domain Clathrin-coated pits Curvature-sensing Nucleation promoting factors Pleckstrin homology domain Cytoskeleton
Issue Date:	2016
Publisher:	Elsevier Ltd
Citation:	Encyclopedia of Cell Biology, 2, pp. 491-502
Abstract:	The BIN-Amphiphysin-Rvs (BAR) domain is an evolutionarily conserved region found in over 750 proteins. BAR domain superfamily members dimerize to form a surface capable of membrane sensing and binding. Such membrane remodeling is essential for the organization and function of intracellular organelles, thus influencing important cellular events including endocytic and membrane trafficking, cell cycle, division, and migration. In this article, we examine the different subfamilies of BAR domain proteins and discuss how they exert their influence to shape membranes. We also focus on the roles of key BAR domain proteins and their roles in mediating actin assembly and intracellular transport and signaling.
URI:	https://www.sciencedirect.com/science/article/pii/B9780123944474200503?via%3Dihub (https://www.sciencedirect.com/science/article/pii/B9780123944474200503?via%3Dihub) http://hdl.handle.net/123456789/2509 (http://hdl.handle.net/123456789/2509)
Appears in Collections:	Research Articles (/jspui/handle/123456789/9)

Files in This Item:

File	Description	Size	Format
Need to add pdf.odt (/jspui/bitstream/123456789/2509/1/Need%20to%20add%20pdf.odt)		7.9 kB	OpenDocument Text

[View/Open \(/jspui/bitstream/123456789/2509/1/Need%20to%20add%20pdf.odt\)](#)

[Show full item record \(/jspui/handle/123456789/2509?mode=full\)](#)

[Statistics \(/jspui/handle/123456789/2509/statistics\)](#)

Items in DSpace are protected by copyright, with all rights reserved, unless otherwise indicated.

