

Contents

SH3 Domains as Suitable Models to Study Amyloid Aggregation	1
Bertrand Morel, David Ruzafa and Francisco Conejero-Lara	
SH Domain Proteins in Plants: Roles in Signaling Transduction and Membrane Trafficking	17
Xiaohong Zhuang and Liwen Jiang	
Versatility of SH3 Domains in the Cellular Machinery	35
Ana I. Azuaga and Salvador Casares Atienza	
Structure-Function Relationship of Bacterial SH3 Domains	71
Shigehiro Kamitori and Hiromi Yoshida	
Activation of PI3K by Thyroid Hormone Nuclear Receptors	91
Jeong Won Park and Sheue-yann Cheng	
SH Domains' Interaction with SLiMs: Maximizing Adaptivity of Signaling Networks	111
Siyuan Ren	
SH Domains and Epidermal Growth Factor Receptors	133
Natalya Kurochkina, Udayan Guha and Zhong Lu	
SH2 Domain Structures and Interactions	159
Piraveen Gopalasingam, Lee Quill, Mark Jeeves and Michael Overduin	
Cytoskeletal Signaling by Src Homology Domain-Containing Adaptor Proteins	187
Narcisa Martinez-Quiles	

Structure and Function of Jak3- SH2 Domain	209
Jayshree Mishra and Narendra Kumar	
Helical Assemblies and SH Domains.	229
Natalya A. Kurochkina and Michael J. Iadarola	

SH Domains

Structure, Mechanisms and Applications

Kurochkina, N. (Ed.)

2015, VIII, 253 p. 52 illus., 30 illus. in color., Hardcover

ISBN: 978-3-319-20097-2