

---

# Contents

<b>1</b>	<b>Sperm Proteases and Extracellular Ubiquitin–Proteasome System Involved in Fertilization of Ascidians and Sea Urchins.....</b>	<b>1</b>
	Hitoshi Sawada, Masako Mino, and Mari Akasaka	
<b>2</b>	<b>ISGylation: A Conserved Pathway in Mammalian Pregnancy.....</b>	<b>13</b>
	Thomas R. Hansen and James K. Pru	
<b>3</b>	<b><i>Src</i>-Family Tyrosine Kinases in Oogenesis, Oocyte Maturation and Fertilization: An Evolutionary Perspective .....</b>	<b>33</b>
	William H. Kinsey	
<b>4</b>	<b>Posttranslationally Modified Tubulins and Other Cytoskeletal Proteins: Their Role in Gametogenesis, Oocyte Maturation, Fertilization and Pre-implantation Embryo Development.....</b>	<b>57</b>
	Heide Schatten and Qing-Yuan Sun	
<b>5</b>	<b>Deubiquitinating Enzymes in Oocyte Maturation, Fertilization and Preimplantation Embryo Development.....</b>	<b>89</b>
	Namdori R. Mtango, Keith E. Latham, and Peter Sutovsky	
<b>6</b>	<b>Posttranslational Modifications of Zona Pellucida Proteins .....</b>	<b>111</b>
	Naoto Yonezawa	
<b>7</b>	<b>Role of Aberrant Protein Modification, Assembly, and Localization in Cloned Embryo Phenotypes .....</b>	<b>141</b>
	Keith E. Latham	
<b>8</b>	<b>Role of Posttranslational Protein Modifications in Epididymal Sperm Maturation and Extracellular Quality Control .....</b>	<b>159</b>
	Gail A. Cornwall	
<b>9</b>	<b>Ubiquitin–Proteasome System in Spermatogenesis.....</b>	<b>181</b>
	Rohini Bose, Gurpreet Manku, Martine Culty, and Simon S. Wing	

---

<b>10</b>	<b>Role of Posttranslational Modifications in <i>C. elegans</i></b>	
	<b>and <i>Ascaris</i> Spermatogenesis and Sperm Function .....</b>	<b>215</b>
	Long Miao and Steven W. L'Hernault	
<b>Index.....</b>		<b>241</b>

Posttranslational Protein Modifications in the  
Reproductive System

Sutovsky, P. (Ed.)

2014, XIV, 249 p. 40 illus., 29 illus. in color., Hardcover

ISBN: 978-1-4939-0816-5