

Contents

1	Insights into Structural Basis of Mammalian Mitochondrial Translation	1
	Manjuli R. Sharma, Prem S. Kaushal, Mona Gupta, Nilesh K. Banavali and Rajendra K. Agrawal	
2	Mechanism and Regulation of Protein Synthesis in Mammalian Mitochondria	29
	Emine C. Koc and Hasan Koc	
3	Translation in Mammalian Mitochondria: Order and Disorder Linked to tRNAs and Aminoacyl-tRNA Synthetases	55
	Catherine Florentz, Joern Pütz, Frank Jühling, Hagen Schwenzer, Peter F. Stadler, Bernard Lorber, Claude Sauter and Marie Sissler	
4	Mitochondrial Targeting of RNA and Mitochondrial Translation ..	85
	Ivan Tarassov, Ivan Chicherin, Yann Tonin, Alexandre Smirnov, Petr Kamenski and Nina Entelis	
5	Mechanisms and Control of Protein Synthesis in Yeast Mitochondria	109
	Steffi Gruschke and Martin Ott	
6	Kinetoplast-Mitochondrial Translation System in Trypanosomatids	133
	Dmitri A. Maslov and Rajendra K. Agrawal	
7	Translation in Mitochondria and Apicoplasts of Apicomplexan Parasites	159
	Ankit Gupta, Afreen Haider, Suniti Vaishya and Saman Habib	
8	Mitochondrial Translation in Green Algae and Higher Plants	181
	Thalia Salinas, Claire Remacle and Laurence Maréchal-Drouard	

9	Translation in Chloroplasts of Flowering Plants.	207
	Masahiro Sugiura	
10	The Chloroplasts as Platform for Recombinant Proteins Production	225
	Nunzia Scotti, Michele Bellucci and Teodoro Cardi	
	Index.	263

Translation in Mitochondria and Other Organelles

Duchene, A.-M. (Ed.)

2013, VI, 265 p. 44 illus., 36 illus. in color., Hardcover

ISBN: 978-3-642-39425-6