
Contents

<i>Preface</i>	<i>v</i>
<i>Contributors</i>	<i>ix</i>
1 Identifying RNA Recombination Events and Non-covalent RNA–RNA Interactions with the Molecular Colony Technique	1
<i>Helena V. Chetverina and Alexander B. Chetverin</i>	
2 RNA-Directed Recombination of RNA In Vitro	27
<i>Niles Lehman, Niles Vaidya, and Jessica A.M. Yeates</i>	
3 RNA–RNA SELEX	39
<i>B. Cho</i>	
4 Identification of Antisense RNA Stem-Loops That Inhibit RNA–Protein Interactions Using a Bacterial Reporter System	49
<i>Kazuo Harada</i>	
5 Transactivation of Large Ribozymes	57
<i>Matthew B. Martin, Thomas L. Leeper, and Frank J. Schmidt</i>	
6 Native Purification and Labeling of RNA for Single Molecule Fluorescence Studies	63
<i>Arlie J. Rinaldi, Krishna C. Suddala, and Nils G. Walter</i>	
7 Single Molecule Studies of RNA–RNA Interactions	97
<i>Dongmei Yu, Peiwu Qin, and Peter V. Cornish</i>	
8 Modification Interference Analysis of the Ribosome	113
<i>Simpson Joseph</i>	
9 Assessing Intermolecular RNA:RNA Interactions Within a Ribonucleoprotein Complex Using Heavy Metal Cleavage Mapping	125
<i>Keith T. Gagnon and E. Stuart Maxwell</i>	
10 Electrophoretic Mobility Shift Assays: Analysis of tRNA Binding to the T Box Riboswitch Antiterminator RNA	135
<i>R. Anupam, S. Zhou, and J.V. Hines</i>	
11 Fluorescence Anisotropy: Analysis of tRNA Binding to the T Box Riboswitch Antiterminator RNA	143
<i>S. Zhou, R. Anupam, and J.V. Hines</i>	
12 Electrophoretic Mobility Shift Assay of RNA–RNA Complexes	153
<i>Geunu Bak, Kook Han, Kwang-sun Kim, and Younghoon Lee</i>	

13	Structural Studies of a Double-Stranded RNA from Trypanosome RNA Editing by Small-Angle X-Ray Scattering	165
	<i>Angela Criswell and Blaine H.M. Mooers</i>	
14	Fusion RNAs in Crystallographic Studies of Double-Stranded RNA from Trypanosome RNA Editing	191
	<i>Blaine H.M. Mooers</i>	
	<i>Index</i>	217



<http://www.springer.com/978-1-4939-1895-9>

RNA-RNA Interactions

Methods and Protocols

Schmidt, F.J. (Ed.)

2015, X, 219 p. 37 illus., 6 illus. in color., Hardcover

ISBN: 978-1-4939-1895-9

A product of Humana Press