

# Contents

<b>The Epigenetic and Metabolic Language of the Circadian Clock . . . . .</b>	<b>1</b>
Paolo Sassone-Corsi	
<b>Molecular Architecture of the Circadian Clock in Mammals . . . . .</b>	<b>13</b>
Joseph S. Takahashi	
<b>Circadian Mechanisms in Bioenergetics and Cell Metabolism . . . . .</b>	<b>25</b>
Joseph Bass	
<b>Control of Metabolism by Central and Peripheral Clocks in <i>Drosophila</i> . . . . .</b>	<b>33</b>
Amita Sehgal	
<b>Circadian Post-transcriptional Control of Metabolism . . . . .</b>	<b>41</b>
Carla B. Green	
<b>Redox and Metabolic Oscillations in the Clockwork . . . . .</b>	<b>51</b>
Akhilesh B. Reddy	
<b>Rev-erbs: Integrating Metabolism Around the Clock . . . . .</b>	<b>63</b>
Mitchell A. Lazar	
<b>Control of Sleep-Wake Cycles in <i>Drosophila</i> . . . . .</b>	<b>71</b>
Abhishek Chatterjee and François Rouyer	
<b>Circadian Metabolomics: Insights for Biology and Medicine . . . . .</b>	<b>79</b>
Steven A. Brown and Ludmila Gaspar	

**Rhythms Within Rhythms: The Importance of Oscillations for  
Glucocorticoid Hormones** . . . . . 87  
Stafford Lightman

**The Genetics of Autism Spectrum Disorders** . . . . . 101  
Guillaume Huguet, Marion Benabou, and Thomas Bourgeron

**Index** . . . . . 131