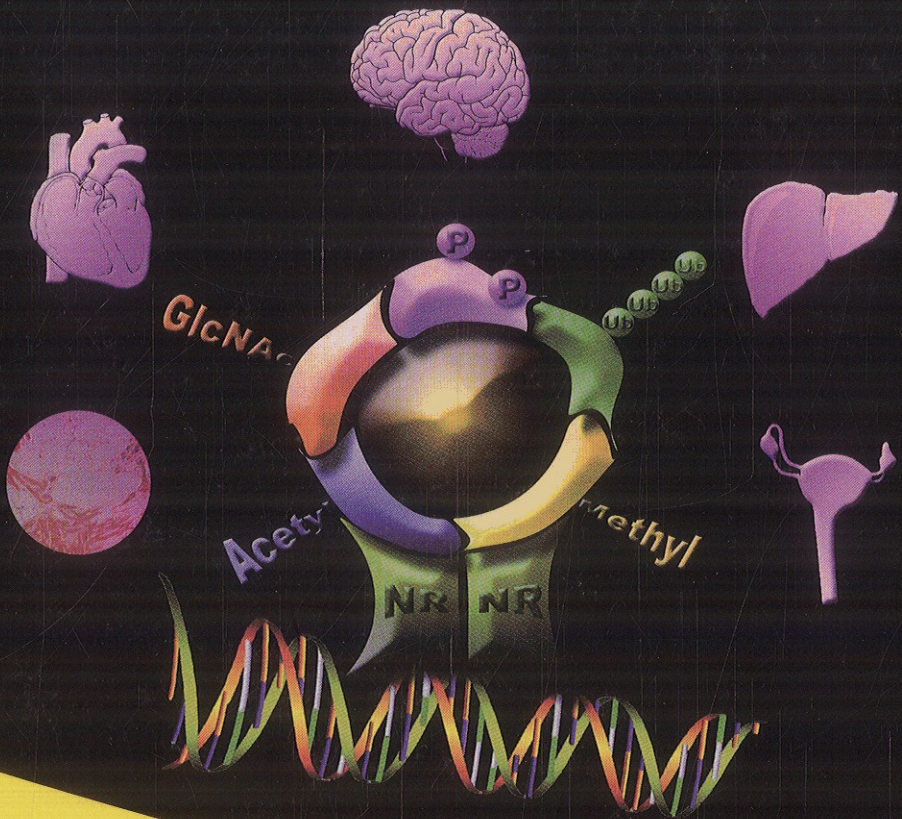


# NR Coregulators and Human Diseases

Rakesh Kumar  
Bert W. O'Malley



# Contents

|   |     |
|---|-----|
| <i>About the Editors</i>  | ix  |
| <i>Preface</i>  | xi  |
| Chapter 1. <b>Nuclear Receptor Coregulators in Human Diseases</b><br><i>Rainer B. Lanz, David M. Lonard<br/>and Bert W. O'Malley</i>  | 1   |
| Chapter 2. <b>p160 Coactivators: Critical Mediators of Transcriptional Activation by Nuclear Receptors</b><br><i>Jeong Hoon Kim and Michael R. Stallcup</i>                     | 135 |
| Chapter 3. <b>Regulation of Nuclear Hormone Receptor Functions by Ubiquitin-Proteasome Pathway</b><br><i>Ayesha Ismail, Heath Catoe, Sarath Dhananjayan<br/>and Zafar Nawaz</i> | 163 |
| Chapter 4. <b>Coregulators as Oncogenes and Tumor Suppressors</b><br><i>Rakesh Kumar and Anupama E. Gururaj</i>   | 195 |
| Chapter 5. <b>A Central Role of SRC-3/AIB1 in Tumorigenesis</b><br><i>Jun Yan, Sophia Y. Tsai and Ming-Jer Tsai</i>   | 219 |
| Chapter 6. <b>Thyroid Hormone Receptors, Coregulators, and Disease</b><br><i>Martin L. Privalsky</i>  | 243 |

|             |  |     |
|-------------|--|-----|
| Chapter 7.  | <b>Androgen Receptor Coactivators in Prostate Cancer</b><br><i>Nancy L. Weigel and Irina U. Aggulnik</i>   | 281 |
| Chapter 8.  | <b>PGC-1<math>\alpha</math> and Metabolic Control in Skeletal and Cardiac Muscle</b><br><i>Zolt Arany and Bruce M. Spiegelman</i>                                      | 301 |
| Chapter 9.  | <b>Coregulators in Metabolic and Neurodegenerative Diseases</b><br><i>Jérôme N. Feige, Hiroyasu Yamamoto and Johan Auwerx</i>  | 319 |
| Chapter 10. | <b>Role of the RIP140 Corepressor in Metabolic Regulation</b><br><i>Malcolm G. Parker, Mark Christian, Evangelos Kiskinis, Asha Seth, Donna Nichol and Roger White</i> | 343 |
| Chapter 11. | <b>Nuclear Receptor Corepressors and Metabolism</b><br><i>Theresa Alenghat and Mitchell A. Lazar</i>   | 357 |
| Chapter 12. | <b>Coregulators in CNS Function and Disease</b><br><i>O.C. Meijer and E.R. de Kloet</i>  | 383 |
| Chapter 13. | <b>Tissue Repair and Cancer Control through PPARs and Their Coregulators</b><br><i>Liliane Michalik and Walter Wahli</i>   | 409 |
| Chapter 14. | <b>Coregulators and Inflammation</b><br><i>Serena Ghisletti, Wendy Huang and Christopher K. Glass</i>  | 441 |
| Chapter 15. | <b>Nuclear Receptor Coactivators in the Cardiovascular System</b><br><i>Jianming Xu</i>  | 467 |
| Chapter 16. | <b>Coregulators as Determinants of Selective Receptor Modulator (SRM) Activity</b><br><i>Margaret C. Pace and Carolyn L. Smith</i>                                     | 485 |

---

|  |     |
|--|-----|
| Chapter 17. <b>Coregulators in Toxicology</b>  | 517 |
| <i>Joëlle Rüegg, Malin Hedengran-Faulds,<br/>Manuela Hase, Ingemar Pongratz<br/>and Jan-Åke Gustafsson</i>                     |     |
| Chapter 18. <b>Nuclear Receptor Coactivators Co-ordinate<br/>Metabolic Responses to Hormonal and<br/>Environmental Stimuli</b> | 539 |
| <i>Ronald M. Evans, Michael Downes,<br/>Russell R. Nofsinger, Jun Sonoda<br/>and Ruth T. Yu</i>                                |     |
| Chapter 19. <b>Nuclear Receptor Cofactor Interactions<br/>as Targets for New Drug Discovery</b>                                | 559 |
| <i>Linda L. Grasfeder and Donald P. McDonnell</i>  |     |
| <i>Index</i>   | 587 |