

Contents

| | |
|---|-----|
| Molecular Definition of Inflammasomes | 1 |
| Virginie Pétrilli and Fabio Martinon | |
| Pyroptosis: A Caspase-1-Dependent Programmed Cell Death and a Barrier to Infection | 17 |
| Katherine Labbé and Maya Saleh | |
| Activation of the Inflammasome by Bacterial Pathogens | 37 |
| Tyler K. Ulland and Fayyaz S. Sutterwala | |
| The Role of Inflammasomes in Viral Infection | 51 |
| Christopher R. Lupfer and Thirumala-Devi Kanneganti | |
| Inflammasome Activation in Response to Eukaryotic Pathogens | 65 |
| Olaf Gross, Christina J. Thomas, and Laura E. Layland | |
| Inflammasome Activation by Pathogenic Crystals and Particles | 85 |
| Fabio Re | |
| Inflammasome Activation by Danger Signals | 101 |
| Pablo Pelegrín | |
| Toll-Like Receptors and Inflammasomes | 123 |
| Frank L. van de Veerdonk and Mihai G. Netea | |
| Inflammasome in the Skin | 133 |
| Olivier Gaide | |
| Cancer, Inflammasomes, and Adjuvanticity | 151 |
| Lionel Apetoh | |

Inflammasome and Lung Pathologies 165
Bernhard Ryffel, Dieudonné Togbe, and Isabelle Couillin

Mechanisms of NLRP3 Inflammasome Activation in CAPS Patients 183
Marco Gattorno and Anna Rubartelli

Activation and Regulation of the NLRP3 Inflammasome 197
Juan-Carlos Hernandez, Cherilyn M. Sirois, and Eicke Latz

Treatment of Inflammasome-Related Disorders 209
Helen J. Lachmann

Index 221



<http://www.springer.com/978-3-0348-0147-8>

The Inflammasomes

Couillin, I.; Pétrilli, V.; Martinon, F. (Eds.)

2011, XIV, 226 p., Hardcover

ISBN: 978-3-0348-0147-8