BOOK REVIEW

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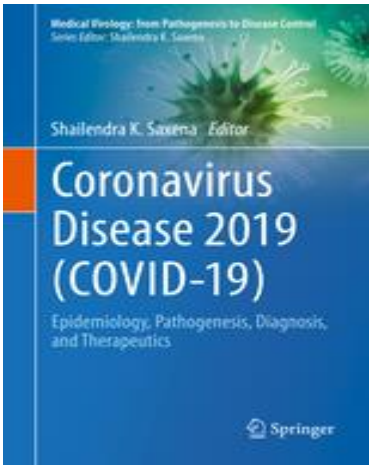

Coronavirus Disease 2019 (COVID-19): Epidemiology, Pathogenesis, Diagnosis, and Therapeutics

Editors: Saxena, Shailendra K. (Ed.)
Publication year: 2020
ISBN: 978-981-15-4814-7
Publisher: Springer

Coronavirus Disease 2019 (COVID-19) book provides a comprehensive overview of recent novel coronavirus (SARS-CoV-2) infection, their biology and associated challenges for their treatment and prevention of novel Coronavirus Disease 2019 (COVID-19). Discussing various aspects of **COVID-19** infection, including global epidemiology, genome organization, immunopathogenesis, transmission cycle, diagnosis, treatment, prevention, and control strategies, it highlights host-pathogen interactions, host immune

response, and pathogen immune invasion strategies toward developing an immune intervention or preventive vaccine for COVID-19.

An understanding of the topics covered in the book is imperative in the context of designing strategies to protect the human race from further losses and harm due to **SARS-CoV-2** infection causing COVID-19. The information presented in this book forms a standard knowledge for physicians, biologists, microbiologist, virologists, immunologists and students of medical, dentistry, nursing, and laboratory investigation colleges. This book:

- provides collated information on novel coronavirus (SARS-CoV-2) biology, including replication, genetics, and pathogenesis.
- Discusses the pathogenesis of various emerging and re-emerging SARS coronaviruses
- Summarizes prevention with potential therapeutics against novel SARS-CoV-2 and COVID-19.
- Highlights prevention and control strategies for COVID-19 and novel SARS-CoV-2 infection
- Reviews the host-pathogen interaction, host immune response and clinical manifestation of the human Coronavirus disease COVID-19

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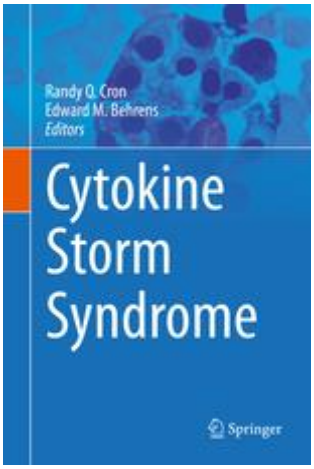
Chapter 9. Laboratory Diagnosis of Novel Coronavirus Disease 2019 (COVID-19) Infection. Pages 95-107. Padhi A et al
Chapter 10. Therapeutic Development and Drugs for the Treatment of COVID-19. Pages 109-126. Maurya VK et al
Chapter 11. Prevention and Control Strategies for SARS-CoV-2 Infection. Pages 127-140. Srivastava N, et al
Chapter 12. Classical Coronaviruses. Pages 141-150. Jaiswal NK et al.
Chapter 13. Emergence and Reemergence of Severe Acute Respiratory Syndrome (SARS) Coronaviruses. Pages 151-163. Baxi P et al
Chapter 14. Preparing for the Perpetual Challenges of Pandemics of Coronavirus Infections with Special Focus on SARS-CoV-2. Pages 165-186. Chawla S et al.
Chapter 15. Preparing Children for Pandemics. Pages 187-198. Saxena R et al
Chapter 16. Coping with Mental Health Challenges during COVID-19. Pages 199-213. Kar SK et al.
Chapter 17. Correction to: Transmission Cycle of SARS-CoV-2. Pages C1- C1. Yadav T et al.



Cytokine Storm Syndrome

Editors: **Cron**, Randy, **Behrens**, Edward M. (Eds.)
Publisher: Springer
Publication year: 2019
ISBN: 978-3-030-22094-5

The **Cytokine Storm Syndrome (CSS)** book provides the fundamental basic and applied clinical science at the cutting edge of CSS treatment

First textbook devoted to Cytokine Storm Syndromes, covering all aspects of the disorder (clinical, genetics, pathophysiology, associations, therapy, and others). The contributor's authors are international experts in cytokine storm syndrome. The CSS (including HLH and MAS), are frequently fatal disorders, particularly if not recognized early and treated during presentation. The genetics of Cytokine Storm Syndromes are being defined with many of the risk alleles giving rise to mutations in the performing-mediated cytolytic pathway used by CD8 cytotoxic T cells and natural killer cells. These are being studied using murine models. Up to 10% of the general population may carry risk alleles for developing Cytokine Storm Syndromes, and Cytokine Storm Syndromes are being increasingly recognized around the world in pediatric and adult hospitals. A variety of infectious, rheumatic, and oncologic triggers are commonly associated with Cytokine Storm Syndromes, but understanding this

disorder is critical for all researchers and physicians to ensure timely and appropriate therapy. This textbook, the first of its kind, addresses all aspects of the disorder – from genetics, pathophysiology, and ongoing research, to clinical presentations, risk factors, and treatment. Recently COVID-19 infection is associated with fatal CSS and thus this text book provides information for all who deal with COVID-19 pandemic.

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Chapter 33. Anti-interferon-γ Therapy for Cytokine Storm Syndromes. 569-580. De Benedetti, Fabrizio.
Chapter 34. Alternative Therapies for Cytokine Storm Syndromes. Pages 581-593. Ozen, Seza et al.
Chapter 35. Salvage Therapy and Allogenetic Hematopoietic Cell Transplantation for the severe Cytokine Storm Syndrome of Hemophagocytic Lymphohistiocytosis. Pages 595-606. Marsh, Rebecca A.