

Caliciviruses

Molecular and Cellular Virology

Edited by: **Grant S. Hansman¹, Xi Jason Jiang² and Kim Y. Green³**

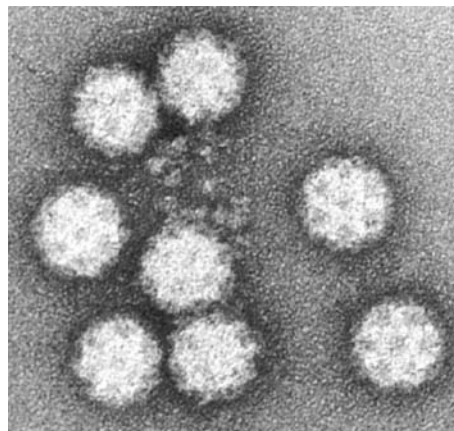
¹National Institute of Infectious Diseases, Department of Virology II, Tokyo 208-0011, Japan

²Division of Infectious Diseases, Cincinnati Children's Hospital Medical Center, Cincinnati, USA

³Laboratory of Infectious Diseases, NIAID, Bethesda, Maryland 20892, USA

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Caliciviruses are positive-sense, single stranded RNA viruses containing four recognized genera: Norovirus, Sapovirus, Lagovirus and Vesivirus. They are ubiquitous in the environment and are a major cause of disease in humans and many animals. Examples include Norwalk virus, a norovirus, thought to be responsible for roughly 90% of epidemic, non-bacterial outbreaks of gastroenteritis in humans around the world. Lack of a suitable cell culture system for human caliciviruses limited studies in previous decades, however the recent application of modern genomic technologies has revolutionized the field, leading to an explosion in calicivirus publications. In this book, a panel of experts distil the most important up-to-date research findings in their respective calicivirus field of study producing timely and comprehensive reviews. Each chapter gives the reader a brief introduction to the topic followed by a descriptive discussion of the past and present research areas. This book is essential reading for all virologists working on caliciviruses and related viruses and is recommended for all virology, immunology and molecular biology laboratories.

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viii + 304 pp., January 2010

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Retroviruses

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c. 520 pp., January 2010

ISBN 978-1-904455-55-4, \$310/£159

Topics include: host and retroelement interactions, endogenous retroviruses, retroviral proteins and genomes, viral entry and uncoating, reverse transcription and integration, transcription, splicing and RNA transport, pathogenesis of oncoviral infections, pathogenesis of immunodeficiency virus infections, retroviral restriction factors molecular vaccines and correlates of protection, gammaretroviral and lentiviral vectors, non-primate mammalian and fish retroviruses, simian exogenous retroviruses, and HTLV and HIV. Essential reading!

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Molecular and Cellular Interactions

Edited by: **Moira Desport**

c. 410 pp., March 2010

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Topics include: lentivirus tropism and disease, macrophage biology, macrophage in HIV-1 infection and disease progression, post-entry restrictions to lentiviral replication, HIV-2 tropism and disease, SHIV model of disease, the felid immunodeficiency viruses, EIAV, small ruminant lentiviruses, bovine lentiviruses, coinfections and superinfections.

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Molecular Virology

Edited by: **Qinghua Wang and Yizhi Jane Tao**

c. 200 pp., January 2010

ISBN 978-1-904455-57-8, \$310/£159

Subjects covered include the NS1 protein of influenza A virus, the structure of influenza NS1, influenza B hemagglutinin, influenza A nucleoprotein, influenza A hemagglutinin glycoproteins, the M2 channel, virulence genes of the 1918 H1N1 influenza, influenza virus polymerase, gene diagnostic microarrays, and computer-assisted vaccine design.

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Current Innovations and Future Trends

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c. 280 pp., February 2010

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In this book, expert RNAi specialists from around the world have teamed up to produce a timely and thought-provoking review of the area. The two central themes are: 1) the latest findings on RNAi-virus interactions and 2) progress in the development of RNAi-based antiviral therapeutics.

Topics

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Epstein-Barr Virus

Latency and Transformation

Edited by: **Erle S. Robertson**

c. 220 pp., April 2010

ISBN 978-1-904455-62-2

Topics include: latent infections, EBV leader protein, EBNA-1 in viral DNA replication and persistence, EBNA-2 in transcription activation of viral and cellular genes, the nuclear antigen family 3 in regulation of cellular processes, molecular profiles of EBV latently infected cells, latent membrane protein 1 oncoprotein, regulation of latency by LMP2A, role of noncoding RNAs in EBV-induced cell growth and transformation and the regulation of EBV latency by viral lytic proteins.

Other Books of Interest

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- Anaerobic Parasitic Protozoa
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- Lab-on-a-Chip Technology
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- Pili and Flagella: Current Research and Future Trends
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