



Cytomegaloviruses: From Molecular Pathogenesis to Intervention (Volume I)

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Human Cytomegalovirus (CMV) - a member of the herpesvirus family - is an underrated health risk. A low public awareness results from the relatively mild symptoms it causes in otherwise healthy people whose immune systems are intact, with primary infection usually going unnoticed. During pregnancy, however, transmission from the mother to the fetus is currently the most frequent viral cause of birth defects with lifelong neurological sequelae, sensorineural hearing loss in particular. People at risk also include the growing number of immune compromised patients requiring either a solid organ graft or receiving a hematopoietic cell graft for the treatment of hematopoietic malignancies that are refractory to standard therapies. Under the condition of weakened immune surveillance in these patients, latent CMV hidden in transplanted donor cells or in the recipients' own tissues can awake to cause a destructive infection resulting in graft loss and multiple end-organ disease, of which viral pneumonia is the most feared. This two volume work is an updated and upgraded second edition of Cytomegaloviruses: Molecular Biology and Immunology (2006). The second edition's title - Cytomegaloviruses: From Molecular Pathogenesis to Intervention - reflects its expanded commitment not only to cover cutting edge basic science, but also to include the translation of this to clinical science. In an interdisciplinary approach to understanding CMV disease and outlining options for prevention and treatment, leading international experts provide comprehensive and authoritative reviews on literally every aspect of current research with an unprecedented completeness, integrating research on human CMV and insights gained from experimental animal models. With contributions from over 100 authors, the topics covered in the 46 chapters range from the most contemporary systems biology 'omics' views on virus-host interaction to considerations of the health and economic impact of CMV disease for evaluating the hoped-for benefit from a vaccine. This Volume 1 (as an individual volume: ISBN 978 1 908230 19 5; as a two volume set: ISBN 978 1 908230 18 8) focuses on basic science laying the foundations of clinical research, starting with the comparative genomics of primate CMVs and ending with the emerging field of humanized mouse models. Volume 2 (as an individual volume: ISBN 978 1 908230 20 1) is more clinically oriented, covering the immune response to CMV, the most pressing medical problems in the newborn and in transplantation patients, as well as diagnostics, the management of antiviral drug resistance, the state and future of a CMV vaccine, and the potential of using CMV as a vaccine vector to fight unrelated diseases. The book closes with a critical survey of disputed associations between CMV and atherosclerotic cardiovascular disease, certain tumors such as Glioblastoma Multiforme, and the phenomenon of 'immune senescence' in the elderly. The two volume set (ISBN 978 1 908230 18 8) is liberally illustrated with more than 200 figures, most of which are in full color. There are over 60 tables and several thousand references which enhance the set even further, making it an invaluable source of information. This will be essential reading for all virologists with an interest in cytomegaloviruses, for all clinicians in pediatric intensive care medicine and at transplantation centers, for scientists working on antiviral drug and vaccine development, as well as for public health service and science funding system authorities.

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