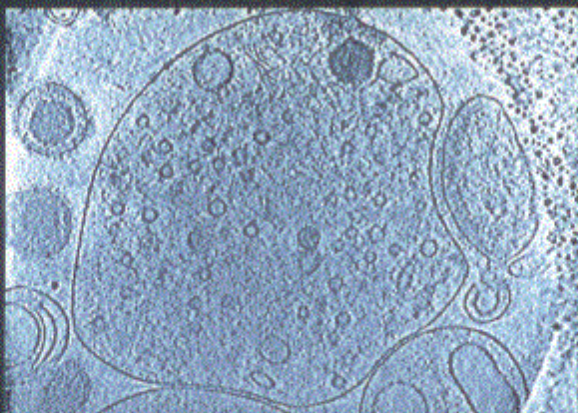


EMERGING TOPICS IN PHYSICAL VIROLOGY



Emerging Topics in Physical Virology is a state-of-the-art account of recent advances in the experimental analysis and modelling of structure, function and dynamics of viruses. It is the first interdisciplinary book that integrates a review of relevant experimental techniques, such as cryo-electron microscopy, atomic force microscopy and mass spectrometry with the latest results on the biophysical and mathematical modelling of viruses. The book covers the structure and physical properties of the protein envelopes that encapsulate and hence protect their delicate viral genomes, their assembly and disassembly, the 3D organization of the genomes, evolution, as well as applications of viruses in biomedical nanotechnology. It is an essential primer for scientists working in all aspects of virology, including the increasing use of viruses and virus-like particles in bio- and nanotechnology. Its review style moreover makes it suitable for non-experts as an introduction into this exciting research area.

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Imperial College Press

www.icpress.co.uk

P673 hc

ISBN-13 978-1-84816-464-2
ISBN-10 1-84816-464-5



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