

MARKSCHEME

May 2013

BIOLOGY

Higher Level

Paper 3

M13 4 Biolo Hl Paper 1

Sir Norman Lockyer

M13 4 Biolo Hl Paper 1:

Filamentous Bacteriophage in Bio/Nano/Technology, Bacterial Pathogenesis and Ecology Jasna Rakonjac, Bhabatosh Das, Ratmir Derda, 2017-02-16 Filamentous phage genus Inovirus infect almost invariably Gram negative bacteria They are distinguished from all other bacteriophage not only by morphology but also by the mode of their assembly a secretion like process that does not kill the host Classic Escherichia colifilamentous phage Ff f1 fd and M13 are used in display technology and bio nano technology whereas filamentous phage in general have been put to use by their bacterial hosts for adaptation to environment pathogenesis biofilm formation horizontal gene transfer and modulating genome stability Many filamentous phage have a symbiotic life style that is often manifested by inability to form plaques preventing their identification by standard phage hunting techniques while the absence or very low sequence conservation between phage infecting different species often complicates their identification through bioinformatics Nevertheless the number of discovered filamentous phage is increasing rapidly along with realization of their significance Temperate filamentous phage whose genomes are integrated into the bacterial chromosome of pathogenic bacteria often modulate virulence of the host The Vibrio cholerae phage CTXf genome encodes cholera toxin whereas many filamentous prophage influence virulence without encoding virulence factors. The nature of their effect on the bacterial pathogenicity and overall physiology is the next frontier in understanding intricate relationship between the filamentous phage and their hosts Phage display has been widely used as a combinatorial technology of choice for discovery of the rapeutic antibodies and peptide leads that have been applied in the vaccine design diagnostics and drug development or targeting over the past thirty years Virion proteins of filamentous phage are integral membrane proteins prior to assembly hence they are ideal for display of bacterial surface and secreted proteins The use of this technology at the scale of microbial community has potential to identify host interacting proteins of uncultivable or low represented community members Recent applications of Ff filamentous phage extend into protein evolution synthetic biology and nanotechnology In many applications phage serves as a monodisperse long aspect nano scaffold of well defined shape Chemical or chenetic modifications of this scaffold are used to introduce the necessary functionalities such as fluorescent labels ligands that target specific proteins or peptides that promote formation of inorganic or organic nanostructures We anticipate that the future holds development of new strategies for particle assembly site specific multi functional modifications and improvement of existing modification strategies These improvements will render the production of filamentous phage templated materials safe and affordable allowing their applications outside of the laboratory Federation Proceedings Federation of American Societies for Experimental Biology, 1980 Molecular Biology, 1990 **The Journal of Cell Biology** ,1998 No 2 pt 2 of November issue each year from v 19 47 1963 70 and v 55 1972 contain the Abstracts of papers presented at the annual meeting of the American Society for Cell Biology 3d 10th 1963 70 and 12th 1972 Proceedings of the National Academy of Sciences of the United States of America National

Academy of Sciences (U.S.).,1988 Nature Sir Norman Lockyer, 1869 Agrindex ,1993 **Immunoregulation** Royal Society (Great Britain). Discussion Meeting, 2005 Cancer Research ,1991 **Gentechnologische Arbeitsmethoden** Rudolf Hagemann, 1990-12-31 Keine ausf hrliche Beschreibung fr Gentechnologische Arbeitsmethoden verf gbar Genetics Abstracts, 1987 Journal of Applied Mechanics, 1983 Science Citation Index ,1994 Vols for 1964 have guides and journal lists Paperbound Books in Print ,1971-07 Yearbook of International Organizations ,1967 A directory of associations intergovernmental bodies religious groups and other international organizations **Government** Reports Announcements, 1973 Government Reports Announcements & Index ,1987 Bulletin signalétique ,1978 The Bookseller ,1974 **Index to Scientific Reviews** ,1983

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