Chlamydiae are obligate intracellular bacteria that cause one of the most common sexually transmitted infectious diseases in the world. The infection disproportionately impacts women and the highest prevalence of infection is found in adolescents. Most chlamydial infections are asymptomatic. Untreated infections are sources of further spread of infection and can lead to serious consequences including pelvic inflammatory disease, infertility and chronic pelvic pain. Chlamydial infections also increase a person’s susceptibility to HIV and other STDs.

Featuring contributions by internationally recognized experts in epidemiology, infectious disease research and chlamydial biology, this book provides up-to-date reviews from a clinical and public health perspective on chlamydia epidemiology and control programs, genomics and pathogenicity, diagnosis, treatment, host immune responses, and the latest on the search for an effective vaccine. Also included are chapters on the impact of chlamydial infection on specific populations such as the lesbian, gay, bisexual and transgender community, and an update on the outbreak in Europe of the invasive chlamydial infection, lymphogranuloma venereum or LGV. This comprehensive publication is intended for clinicians, public health workers and scientists with interest in sexually transmitted diseases, medical microbiology, infectious diseases and clinical research.

Contents

Introduction: Black, C.M.
- Epidemiology and Prevention and Control Programs for Chlamydia: Satterwhite, C.L.; Douglas Jr., J.M.
- Chlamydia trachomatis Pathogenicity and Disease: Dean, D.
- Chlamydia trachomatis Genome Structure: Putman, T.E.; Rockey, D.D.
- Chlamydia trachomatis: Molecular Testing Methods: Gaydos, C.A.
- Treatment of Chlamydia trachomatis Infections: Hammerschlag, M.R.
- The Immunologic Response to Urogenital Infection: Johnson, R.M.; Geisler, W.
- Chlamydia Vaccine Development: Igietseme, J.U.; Black, C.M.
- Maternal and Infant Chlamydia trachomatis Infections: Rours, I.G.J.J.G.; Hammerschlag, M.R.
- Chlamydia trachomatis Infection among Sexual Minorities: Singh, D.; Marrazzo, J.M.
- Author Index
- Subject Index

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Contents

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An in-depth compendium of current knowledge of chromosome dynamics and arrangement in bacteria and archaea

Bacterial Chromosomal Segregation

Editor
Peter L. Graumann

All cellular life depends on the accurate duplication and partitioning of the genome. It has become clear in recent years that the chromosomes of many bacterial species show a well-defined arrangement, and their layout, integrity and segregation is supported by a variety of conserved proteins. The architecture of the chromosome also has a large impact on global transcription, and proteins involved in the topology of the DNA play major roles in chromosome segregation and compaction. In this special issue, the molecular biological principles of these fundamental processes are described in several model and non-model bacteria.

Providing an in-depth compendium of our current knowledge of chromosome dynamics and arrangement in bacteria and archaea, this publication is a must-read for any researcher studying or teaching bacterial genetics or physiology.

Contents

Introduction
• Chromosome Architecture and Segregation in Prokaryotic Cells: Graumann, P.L.

Review Articles
• Dynamic Organization: Chromosome Domains in Escherichia coli: Messerschmidt, S.J.; Waldminghaus, T.
• Function of Nucleoid-Associated Proteins in Chromosome Structuring and Transcriptional Regulation: Dorman, C.J.
• Order from the Order: How a Spatiotemporal Genetic Program Is Encoded in a 2-D Genetic Map of the Bacterial Chromosome: Muskhelishvili, G.; Travers, A.
• Genomic Looping: A Key Principle of Chromatin Organization: van der Valk, R.A.; Vreede, J.; Crémazy, F.; Dame, R.T.
• Chromosome Segregation in Vibrio cholera: Ramachandran, R.; Jha, J.; Chattoraj, D.K.
• MukBEF, a Chromosomal Organizer: Rybenkov, V.V.; Herrera, V.; Petrushenko, Z.M.; Zhao, H.
• Structural Maintenance of Chromosome Complex in Bacteria: Kleine Borgmann, L.A.K.; Graumann, P.L.
• The FtsK Family of DNA Translocases Finds the Ends of Circles: Crozat, E.; Rousseau, P.; Fournes, F.; Cornet, F.
• Polyploidy in Archaea and Bacteria: About Desiccation Resistance, Giant Cell Size, Long-Term Survival, Enforcement by a Eukaryotic Host and Additional Aspects: Soppa, J.
• Archaeal Chromosome Biology: Samson, R.Y.; Bell, S.D.

Author Index/Subject Index

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Selected contributions

- Dengue Virus Serotype-2 Impairs Proliferation of Healthy Donors’ T Lymphocytes. Fuentes-Miranda, C.J.; Sánchez-García, F.J. (México D.F.);
  Moreno-Altamirano, M.M.B. (México D.F.)
- Vaccinia Virus Outperforms a Panel of Other Poxviruses as a Potent Oncolytic Agent for the Control of Head and Neck Squamous Cell Carcinoma Cell Lines. Nichols, A.C.; Yoo, J.; Um, S.; Mundi, N.; Palma, D.A.;
- Development of Virus-Like Particle Technology from Small Highly Symmetric to Large Complex Virus-Like Particle Structures. Pushko, P. (Frederick, Md.);
  Pumpens, P.; Grens, E. (Riga)
  Masri B.E.; Al-Kaiedi N.A.; Shakil S.; Sohrab S.S. (Jeddah); SantaLucia Jr. J. (Takamatsu);
  Ghaemi, A. (Gorgan/Tehran); Soleimanjahi, H.; Gill, P.;
  Aksoy, F.; Vatansever, Z. (Kars)
- Characteristics and Outcomes of HCV Infected-Patients Treated with Peginterferon and Ribavirin Combination Therapy with Discordant HCV Responses 4 and 12 Weeks after Starting Therapy. Toyoda H.;
  Kawai, T.; Kavada T.; Shimada N.; (Matsudo); Takaguchi K.; (Takamatsu); Ide T.; Sata M.; (Kurume);
  Gamba H.; Matsuyama K.; Izumi N. (Tokyo)
  Londero; Alkimim W.; Munerato P.; Zukurov J.; Maricato J.T.; Sucupira M.C.;
  Díaz R.S.; Janini L.M. (São Paulo)
Pharmacology

81 In vitro Anticancer Activity of Myricanone in Human Lung Adenocarcinoma A549 Cells
Dai, G.; Tong, Y.; Chen, X.; Ren, Z.; Yang, F. (Hangzhou)

119 Suppressive Effect of Matrine on Tumor Invasion in N-Butyl-N-(4-Hydroxybutyl)Nitrosamine-Induced Urinary Bladder Carcinogenesis
Gao, H.; Guo, Y.; Deng, N.; Fei, P.; Qiu, X.; Zheng, P.; Feng, J. (Yinchuan); Dai, G. (Kaili)

Microbiology

135 Changes in Gut Microbiota May Be Early Signs of Liver Toxicity Induced by Epoxiconazole in Rats
Xu, C.; Liu, Q.; Huan, F.; Qu, J.; Liu, W.; Gu, A.; Wang, Y. (Nanjing); Jiang, Z. (Shanghai)

Experimental Chemotherapy

99 Effects of Microtubule and Actin Inhibitors on Cryptococcus neoformans Examined by Scanning and Transmission Electron Microscopy
Kopecká, M. (Brno)

112 Combination of Matrine and Sorafenib Decreases the Aggressive Phenotypes of Hepatocellular Carcinoma Cells

Clinical Studies

73 Treatment Outcome and Relevance of Palliative Chemotherapy in Urachal Cancer
Jung, H.A.; Sun, J.-M.; Park, S.H.; Kwon, G.Y.; Lim, H.Y. (Seoul)

91 Prognostic Factors for the Selection of Patients Eligible for Second-Line Chemotherapy in Advanced Biliary Tract Cancer

107 The Optimal Treatment Modality in Patients with T4N2M0 Non-Small Cell Lung Cancer: The Best Choice May Be Definitive Chemoradiotherapy Followed by Consolidation Chemotherapy
Mutlu, H. (Kayseri); Arslan, D. (Erzurum); Gündüz, S.; Tural, D. (Kayseri); Büyükçelik, A. (Istanbul); Benderli Cihan, Y.; Aslan, T.; Bozcuk, H.; Şenol Coşkun, H. (Kayseri)

129 A Randomised Phase II Trial Comparing Docetaxel Plus Prednisone with Docetaxel Plus Prednisone Plus Low-Dose Cyclophosphamide in Castration-Resistant Prostate Cancer
Porsch, M. (Magdeburg); Ulrich, M. (Halberstadt); Wendler, J.J.; Liehr, U.-B. (Magdeburg); Reiher, F. (Haldensleben); Janitzky, A.; Baumunk, D.; Schindele, D. (Magdeburg); Seseke, F. (Halle-Doelau); Lux, A.; Schostak, M. (Magdeburg)

Case Report

88 A Case of Hepatic Portal Venous Gas in a Patient Treated with Pemetrexed and Carboplatin for Lung Cancer
Kawaguchi, Y.; Fujita, T.; Hanaoka, J.; Hayashi, K. (Shiga)