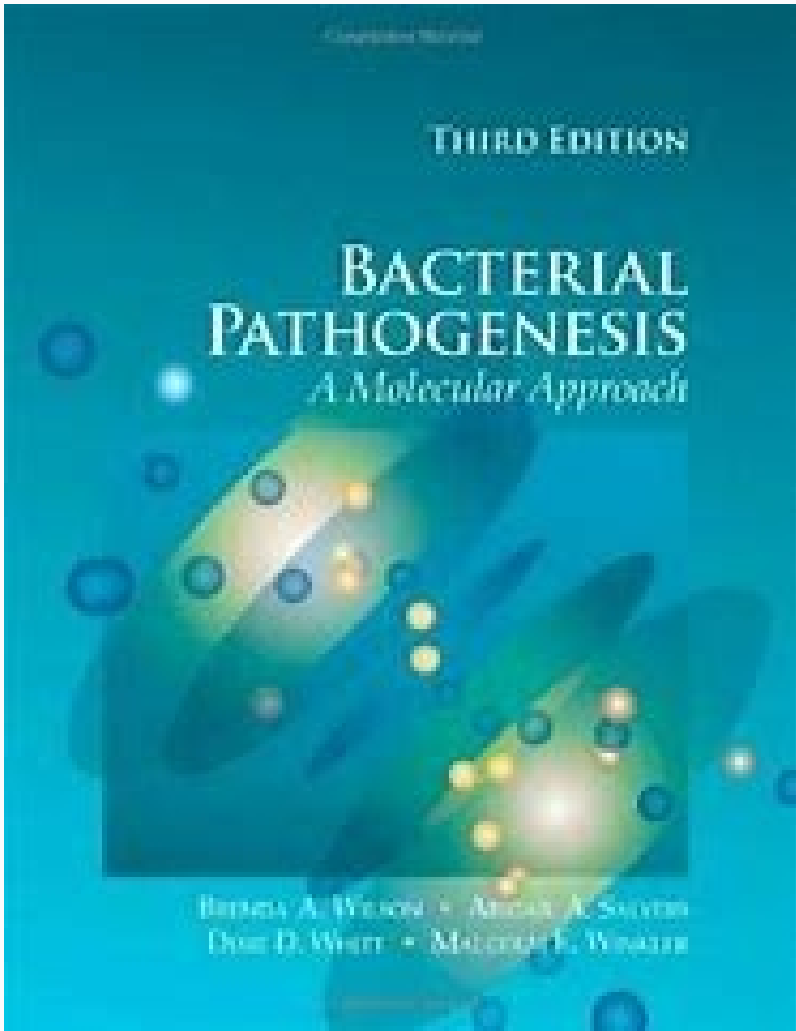
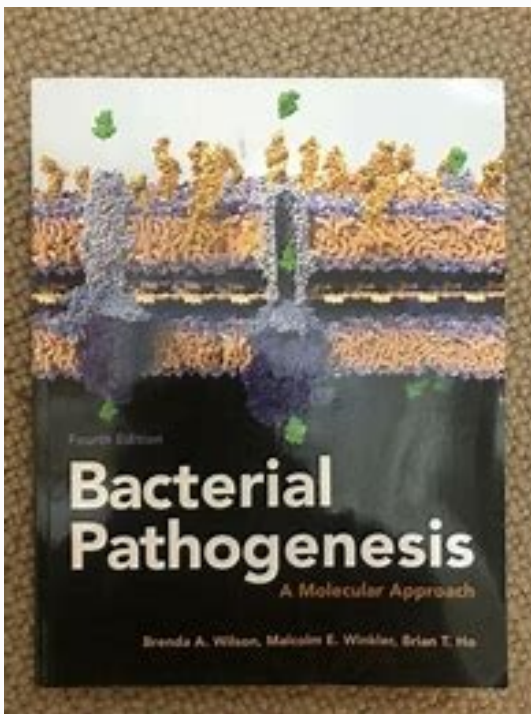
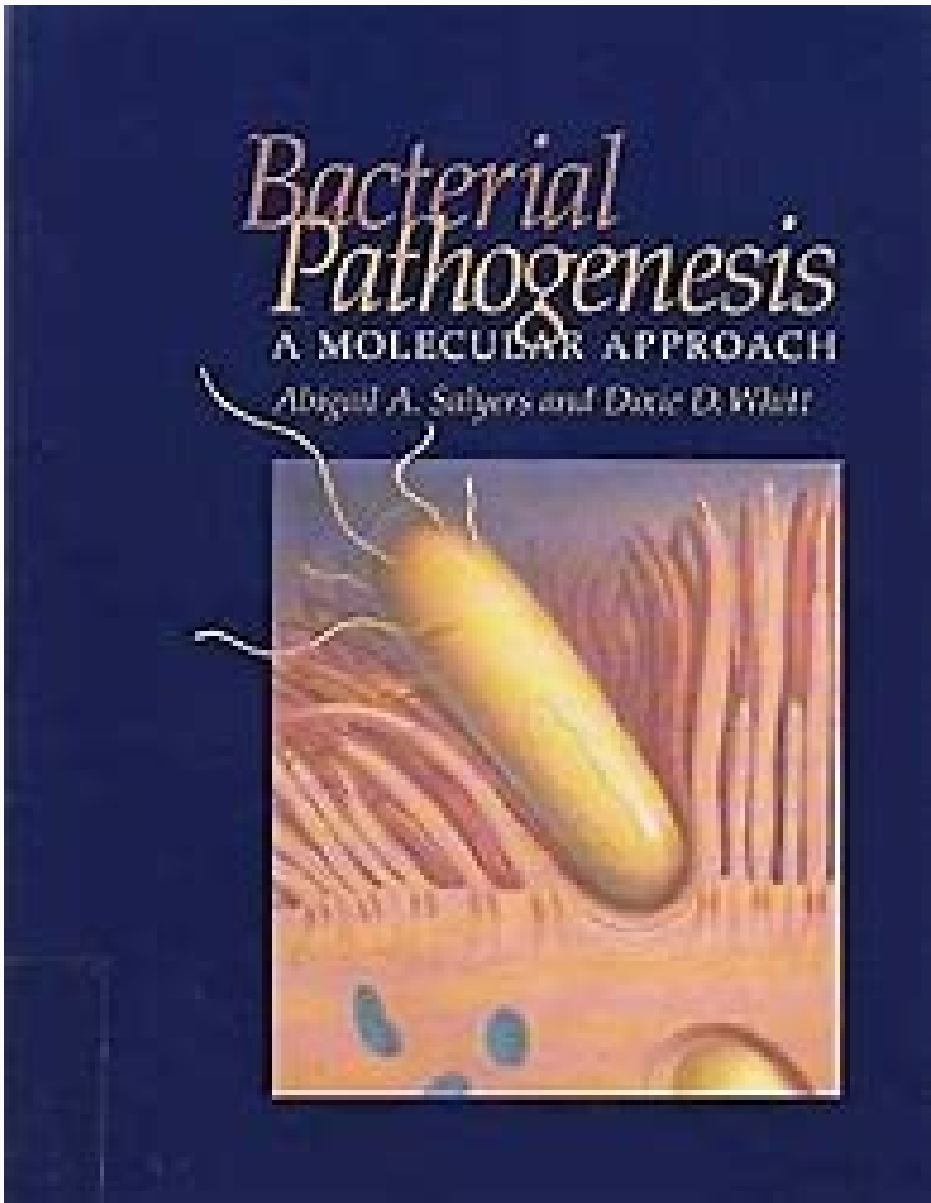


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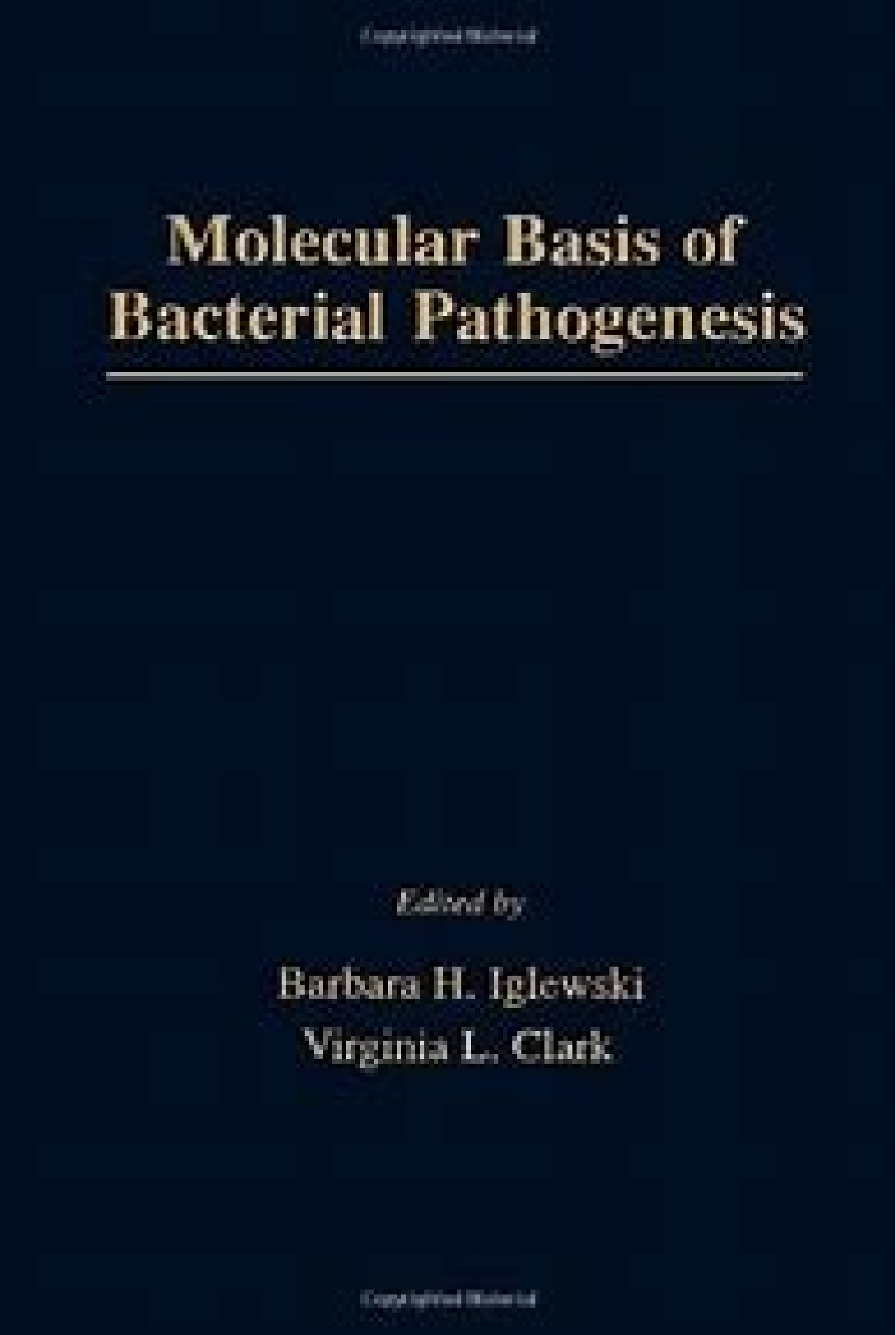
Workshop on Bacterial Pathogenesis

Sociedade Brasileira de Microbiologia (SBM)

November 18th to 20th, 2020

Program

November 18th (Wednesday)	
Opening Lecture	
13:00-14:00	Michael Otto National Institutes of Health, USA Anti-virulence strategies to combat <i>Staphylococcus aureus</i>
Conferences	
14:00-14:30	Michelle Buckner University of Birmingham, United Kingdom Could targeting plasmids help reduce antimicrobial resistance?
14:30-15:00	Neta Sal-Mun / Ben Gurion University of the Negev, Israel Bacterial-host interactions and how competing pathogens affect them
Break	
15:15-15:45	Josie Chandler University of Kansas, EUA Bacterial social behaviour: communication, cooperation and conflict among microbes
15:45-16:15	Stephanie Shames Kansas State University, EUA A novel role for bacterial effector regulation by metaselectors



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Frontiers Editorial Office Avenue du Tribunal Federal 34 CH 1005 Lausanne Switzerland Tel +41 (0) 21 510 17 40 Fax +41 (0) 21 510 17 01 For queries about Review manuscripts and possible conflicts of interest, please contact cellandinfect.editorial.office@frontiersin.org For queries about research issues, applications of the Editorial Board and journal development Please contact cellandinfect@frontiersin.org Frontiers IT HelpDesk Tel +41 (0) 21 510 17 10 Fax +41 (0) 21 510 17 01 For technical questions, please visit our Frontiers Help Center, or contact our IT support team at support@frontiersin.org Open AccessReview by 1,* and 2,* 1 Department of Molecular Biology, University of Gdańsk , Wita Stwosza 59, Gdańsk 80-308, Poland 2 Faculty of Life Sciences, University of Manchester, Manchester M13 9PL, United Kingdom * Authors to whom correspondence should be addressed. Academic Editor: Mary Fletcher Molecules 2016, 21 (6), 790; Received: 3 May 2016 / Revised: 6 June 2016 / Accepted: 13 June 2016 / Published: 17 June 2016 (This article is part of the Special Edition Toxins naturelle) Toxin-antitoxin (TA) cassettes are coded widely spread by bacteria. Modules usually include a protein toxin and antitoxin protein or RNA that sequesters the toxin factor. The activation of toxins in response to environmental signals or other stresses promotes a cushioning of the metabolism, especially the translation of proteins, which allows survival until conditions improve. Emerging evidence also implicates ATs in bacterial pathogenicity. Bacterial persistence involves entry into a transient semi-dormant state in which cells survive unfavorable conditions, including death by antibiotics, which is a major clinical problem. TA complexes play a fundamental role in the persistence through downward regulation of cellular metabolism. Bacterial biofilms are important in many inflammatory and chronic infectious diseases and cause serious therapeutic problems due to their Tolerance and resistance to the actions of the host immune system. Multiple TAS influence the formation of biofilm through a network of interactions with other factors that mediate the production and maintenance of the biofilm. In addition, given their emerging contributions to bacterial virulence, TAS are potential targets for new prophylactic and therapeutic approaches that are urgently needed in an era of expanding antibiotic resistance. This review summarizes the emerging evidence implicating TAS in virulence profiles of a diverse range of key bacterial pathogens that trigger serious human diseases. View full text keywords: toxin-antitoxin complexes; biofilm formation; persistence; Pathogenesis; virulence; antibiotic-resistant toxin-antitoxin complexes; biofilm formation; persistence; Pathogenesis; virulence; antibiotic resistance ÅĖ-ÅĖ-ÅĖ-ÅĖ/4 show figures DIV-Cycle-Log = False> This is an open access article distributed under a Creative Commons Attribution License that allows unrestricted use, distribution and reproduction in any medium, provided that the original work is correctly Cited Share and Cite MDPI and ACS Style KÅĖ ĖĖ Dżierska, B.; Hayes, F. Emerging roles of toxin-antitoxin modules in bacterial pathogenesis. Molecules 2016, 21, 790. style loves KÅĖ ĖĖ Dżierska B, Hayes F. Emerging functions of toxin-antitoxin modules in bacterial pathogenesis. Molecules. 2016; 21 (6): 790. Chicago / touristic style KÅĖ ĖĖ Dżierska, Barbara and Finbarr Hayes. 2016. "Emerging functions of toxin-antitoxin modules in bacterial pathogenesis" molecules 21, no. 6: 790. Articles metrics Bacterial pathogenesis: a molecular approach, third edition; Brenda to Wilson, A Salyers, David Whitt, Malcom E WinklerÅĖ; (Å 2011). Å American Society for Microbiology Press, Å Washington, DC. 526 pÅginas. Ilustrado. La tercera ediciÅĖn de la prestigiosa patogenia bacteriana no decepciona. decepciona. New authors have been included (Brenda Wilson and Malcolm Winkler), whose experience and knowledge in bacterial pathogenesis are evidenced throughout the text. The first two editions provided students with a non-existent text in the field of bacterial pathogenesis. These editions also provided basic information on specific topics that served to keep students of various disciplines up-to-date in this ever-changing field.The third edition, like the second, is revised and updated completely. It is no longer divided into sections that focus primarily on the categorization of individual bacterial pathogens. Instead, as an organizational theme, it uses basic principles based on the growing underestimation of the underlying similarities in the mechanism of action, for example, between many types of pathogens. After the first three introductory chapters, the remaining chapters conclude with research problems that will help to develop students' critical thinking and analytical skills. I find the writing style refreshing in comparison to the average textbook, and I also appreciate that it reminds the reader of the importance of new findings in current pathogenesis research.In the first chapter, I note the absence of the classic introductory explanation of bacteria, categorizing them as prokaryotes within the Bacteria domain and discussing their modes of replication and reproduction. Although these concepts are basic, I think they are important to the reader. Instead, the authors introduce the opening chapter with a touch of public health, discussing issues such as "old faithful" antibiotics, once considered miracle drugs, and pointing out how their excessive use has led to many problems that society faces.One of the main complaints I have with this wonderful book, is the choice of the scheme grey and blue colour for illustrations. I know a lot of people think this is beneficial for the book, but I must disagree. My difficulty with this this is due to the fact that many students today have varying degrees of learning disorders. I have found that the use of bright, contrasting colors helps these students to process the mechanisms and concepts better. Since this book is aimed at students, I think a change from the blue-grey scheme would be greatly appreciated by the intended audience.In general, I am sure that the reader of this text will appreciate the attention to detail and will keep the book as a reference on bacterial pathogenesis.Journal of Microbiology & Biology Education articles are provided courtesy of American Society for Microbiology (AS (MEA)

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