DESCRIPTION

In light of the rapidity increasing incidence rate of bacterial and fungal infections with multi-resistant pathogens, the metabolic changes associated with host-pathogen interactions offer one of the most promising starting points for developing novel antibiotics. Part one of this comprehensive guide describes the metabolic adaptation of pathogenic microbes in humans, while part two points to routes for the development of novel antibiotics. This is volume six of the book series on drug discovery in infectious diseases by Paul Selzer.

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Gottfried Unden studied Biology and Chemistry at the Ludwig Maximilians University Munich where he received his Dr. rer. nat. Since 1993 he is Professor for Microbiology at the Department of Microbiology and Wine Research at the University of Mainz. The main areas of work is bacterial metabolism and its adaptation to changing environmental conditions like switching from aerobic to anaerobic metabolism, or the use of carboxylic acid as the substrate for growth, and the function of bacterial sensors.

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Paul M. Selzer studied biology, parasitology, and biochemistry at the University of Tübingen, Germany, where he also received his PhD in biochemistry. He spent three years at the Molecular Design Institute and the Parasitology and Tropical Disease Research Laboratory at the University of California, San Francisco. During his career he has worked as a researcher and scientific manager for several pharmaceutical companies, and is currently Head of Antiparasitics R&D at Boehringer Ingelheim Animal Health, Germany. He is also a visiting professor and teacher at the Biochemistry Institute of the University of Tübingen, and an honorary professor of the Department of Infection, Immunity, and Inflammation at the University of Glasgow, UK.

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