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## Buch-Information

**Autor(en):** Düzgünes, Nejat  
**Titel:** Medical Microbiology and Immunology for Dentistry

### Kurztext:

This clinically oriented textbook explores medical microbiology and immunology as they relate to the practice of dentistry, including sections on the microbiologic basis of caries, periodontal disease, and endodontic infection. The book begins with a thorough discussion of immunology and then systematically covers the bacteria, fungi, viruses, and parasites that affect the human body as well as their oral manifestations. Extremely detailed illustrations throughout aid the reader in comprehending the complex interactions involved in processes such as cellular immunity, bacterial and fungal infiltration, biofilm and dental plaque formation, and virus entry and replication. Sections on recombinant DNA technology, molecular diagnostics, and genomics familiarize the reader with new technologies and emerging fields that will impact future practice. Notable discoveries in molecular biology are highlighted throughout, and research questions are featured as well to engage understanding and critical thinking. Finally, an appendix of cases in medical microbiology challenges the reader to pose diagnoses based on clinical symptoms. This book will no doubt become the definitive textbook on microbiology for dental students and dentists.

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Nejat Düzgünes, PhD, is currently Professor in the Department of Biomedical Sciences at the University of the Pacific Arthur A. Dugoni School of Dentistry. He received his PhD at the State University of New York at Buffalo in 1978, after which he went to the University of California San Francisco, first as NRSA Postdoctoral Fellow and then as an assistant research biochemist and adjunct associate professor of Pharmaceutical Chemistry, where he worked on the targeted therapy of *Mycobacterium avium* and the fusion of enveloped viruses, including influenza virus, SIV, and HIV, with host cells. In 1990, he was appointed chair of the Department of Microbiology at the University of the Pacific, and in 1995 he was appointed Professor. He and his team investigated the delivery of various antiviral agents, including protease inhibitors, to HIV-infected cells; gene therapy of HIV; as well as the liposomal delivery of antimycobacterial agents to *M. avium*-infected cells. More recently, his laboratory has been working on *Candida* species, *Porphyromonas gingivalis*, broadly neutralizing anti-HIV antibodies, and the gene therapy of oral cancer. Dr Düzgünes has received several grants from the National Institutes of Health and other agencies and has been the recipient of several awards, including the United Methodist University Teacher/Scholar Award of the Year in 2015 from the University of Pacific.

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