

Robert J. Palmer Jr.

I am a microbial ecologist who has worked with bacterial biofilm communities since my doctoral research on communities of hot and cold deserts (Antarctica and the Negev Desert). My initial postdoctoral research focused on microbial weathering of federally-protected monuments in Germany. In 1993, I became interested in biofilms of the oral cavity during postdoctoral research sponsored by the oral-care industry, and I have worked in that area ever since. I have tried to bridge the gap between environmental microbiology and medical microbiology, as well as to speak to the role of microbial communities in disease.

01/2003-present	Microbiologist, NIDCR/NIH
09/1999-12/2002	Biologist, NIDCR/NIH
07/1994-08/1999	Director - Biofilm Imaging Facility, Center for Environmental Biotechnology, Univ. Tennessee, Knoxville
07/1993-06/1994	Research Associate, Dept. Applied Microbiology and Food Science, Univ. Saskatchewan, Saskatoon, Saskatchewan, Canada
08/1990-04/1993	Research Associate, Inst. Allg. Mikrobiologie, Universität Kiel, FRG
01/1990-07/1990	Contracted Researcher, State of Schleswig-Holstein, Inst. Allg. Mikrobiologie, Universität Kiel, FRG
05/1988-12/1989	Alexander von Humboldt Research Fellow, Inst. Allg. Mikrobiologie, Universität Kiel, Kiel, FRG
01/1988-04/1988	guest researcher, Desert Research Institute at University of Nevada (support from NASA)
1987	Ph.D., Biology, Florida State University
1979	B.S. in Biological Sciences, University of Minnesota

Palmer, R. J., Jr., S. M. Gordon, J. O. Cisar, and P. E. Kolenbrander. 2003. Coaggregation-mediated interactions of streptococci and actinomyces detected in initial human dental plaque. *J. Bacteriol.* 185:3400-3409

Diaz, P. I., N. I. Chalmers, A. H. Rickard, C. Kong, C. L. Milburn, **R. J. Palmer, Jr.**, and P. E. Kolenbrander. 2006. Molecular characterization of subject-specific oral microflora during initial colonization of enamel. *Appl. Environ. Microbiol.* 72:2837-48.

Chalmers, N. I., **R. J. Palmer Jr.**, J. O. Cisar, and P. E. Kolenbrander. 2008. Characterization of a *Streptococcus* sp.-*Veillonella* sp community micromanipulated from dental plaque. *J. Bacteriol.* 190:8145-8154.

Palmer, R. J., Jr. 2014. Composition and development of oral bacterial communities. *Periodontology 2000* 64:20-39