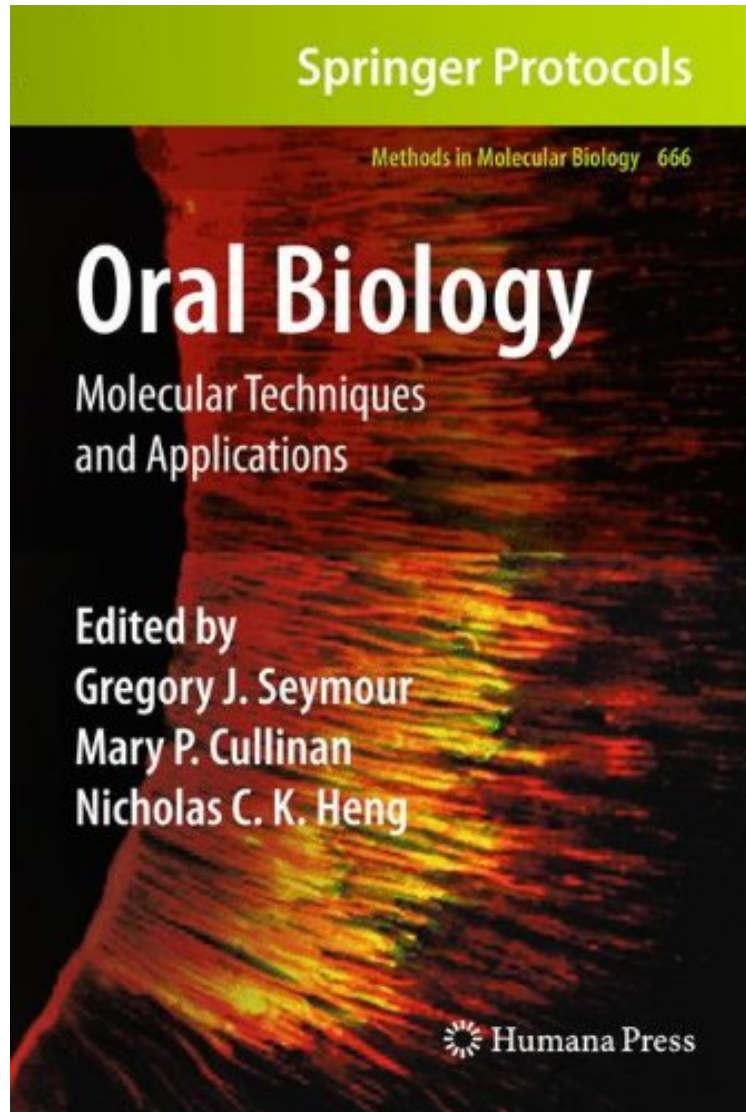


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# Oral Biology: Molecular Techniques and Applications (Methods in Molecular Biology)

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**From Humana Press : Oral Biology: Molecular Techniques and Applications (Methods in Molecular Biology)** before purchasing it in order to gauge whether or not it would be worth my time, and all praised Oral Biology: Molecular Techniques and Applications (Methods in Molecular Biology):

It is generally recognized that the knowledge and research base that underpins dentistry lies in the biological and physical sciences. In this context, the major advances in these sciences over the past two decades have come through the application of molecular biology and nanotechnology. These advances are currently impacting on the diagnosis and treatment of a wide range of human diseases and it is essential that dental research, education, and practice keep pace with this rapidly advancing field. As pointed out by Ford et al. (1): The definition of disease is also changing. Previously, disease was understood to be the presence of symptoms or of a particular phenotype. With increasing knowledge of the genetic basis of many diseases, this definition is changing to become the presence of a genotype conferring a pre-disposition to clinical symptoms or phenotype (Ford et al. (1)). This changing definition of disease means that today's undergraduate or graduate student in dentistry (and its related fields) must be in a position not only to acquire new knowledge in the future but also to be able to evaluate the information and apply it in a clinically relevant setting. This naturally positions oral biology as an integral part of any dentally related professional's repertoire of knowledge. There are as many topics in oral biology as there are the number of sites and micro-environments within the oral cavity.

From the reviews: This book comprehensively reviews a wide range of techniques and protocols from diverse areas of oral biology, encompassing current research on microbes, host tissues and saliva. The book is obviously aimed at active researchers in the various fields, but because the research topics are so diverse, I would recommend purchase by institutes and departments. (Adam Roberts, Microbiology Today, May, 2011) From the Back Cover With so many major advances over the past two decades coming through the application of molecular biology and nanotechnology, it is essential that dental research, education, and practice keep pace with the rapid progress of science. In *Oral Biology: Molecular Techniques and Applications*, expert researchers in the field have provided a selection of in depth methods and techniques optimized for particular applications, which can be readily adapted to particular organisms or areas of interest. Divided into three convenient sections, the book covers the study of saliva, as it is a rich source of biomolecules for study at the molecular level, which may lead to the identification of susceptibility to particular diseases, the study of the microbial inhabitants that share the oral cavity with us, as well as a range of protocols that facilitate assessment of the molecular behavior of oral cells and tissues in health and during disease progression. Written in the highly successful *Methods in Molecular Biology* series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Authoritative and cutting-edge, *Oral Biology: Molecular Techniques and Applications* is an ideal resource not only to the new researcher but also to the seasoned laboratory veteran including cell biologists, microbiologists, and any researchers intent on delving into the vital world of oral biology.