



SALIVARY GLANDS

Salivary System

**J. R. Garrett, J. Ekström, L. C.
Anderson, P. T. Sharpe**



Salivary System:

Neural Mechanisms of Salivary Gland Secretion J. R. Garrett, J. Ekström, L. C. Anderson, P. T. Sharpe, 1999-07 Saliva is essential for oral health and influences all events in the mouth In 1850 Ludwig discovered that autonomic nerve impulses evoke salivary secretion and all work since has shown that the nerves normally control the flow and protein output of saliva This publication written by international experts is the first one devoted to the neuroglandular mechanisms of this control The chapters contained deal with the intimate details of the nerves and their different transmitters in the glands central connections of the glandular nerves receptors in the glands nerve induced glandular secretion of proteins autonomic transmitters on salivary cells the roles of non conventional transmitters in the glands the effects of denervations on the glands on their capacity to synthesize and secrete proteins and the development of supersensitivities to transmitter substances Further chapters prescribe the inter relationship between taste and saliva formation and the reflexes involved in salivary secretion The book lays a sound platform of knowledge to all with an interest in and around the mouth including dentists pharmacologists biochemists and cell biologists as well as neurobiologists working on autonomic nerve activities

Human Saliva, Volume II Jorma O. Tenonuo, 2021-05-30 This book covers the current knowledge of salivary compounds their normal values age dependency diseases or hormonal status and assay problems and is helpful for scientists and clinicians with the relevant information needed in planning performing and interpreting saliva analyses

Salivary Gland Development and Regeneration Seunghee Cha, 2017-02-20 This book provides a comprehensive update on the latest information and knowledge which emerged from translational and basic science research endeavors targeting the regeneration of salivary glands The coverage includes salivary gland growth and development stem cell therapy bioengineering of salivary glands and perspectives on and practical approaches to restoration of secretory function More specifically among the individual topics addressed are the various types of stem cell of value for cell replacement therapy technological advances with respect to 3D printing gene therapy organ culture of salivary glands and surgical aspects of the feasibility and practicality of transplantation Readers will find helpful practical guidance on functional restorations of damaged salivary glands and stimulating insights into potential future directions in salivary gland regeneration research The authors are all acknowledged experts from a range of academic and clinical backgrounds Accordingly the book will be of interest not only to clinicians such as general dental practitioners oral medicine specialists and surgeons who manage dry mouth patients but also to biomedical engineers stem cell researchers and transplant surgeons

Advances in Salivary Diagnostics Charles F. Streckfus, 2015-02-03 This book reviews the progress made in salivary diagnostics during the past two decades and identifies the likely direction of future endeavors After an introductory section describing the histological and anatomical features of the salivary glands and salivary function salivary collection devices and diagnostic platforms are reviewed The field of salivaomics is then considered in detail covering for example proteomics the peptidome DNA and RNA

analysis biomarkers and methods for biomarker discovery Salivary diagnostics for oral and systemic diseases are thoroughly discussed and the role of salivary gland tissue engineering for future diagnostics is explored The book closes by considering legal issues and barriers to salivary diagnostic development Advances in Salivary Diagnostics will be an informative and stimulating reference for both practitioners and students

Portable and Wearable Sensing Systems Qingjun Liu, 2024-03-18 Portable and Wearable Sensing Systems Discover the sensors of the future with this comprehensive guide Chemical sensors and biosensors have advanced enormously in recent decades driven by growth in other technological areas and the refinement of manufacturing processes Advances especially in wireless technology and flexible electronics have dramatically increased the practicality and availability of portable or wearable sensing systems These have the potential to revolutionize disease diagnosis food analysis and environment monitoring at the point of care Portable and Wearable Sensing Systems Techniques Fabrication and Biochemical Detection introduces these groundbreaking technologies and the underlying principles which make them possible Beginning with an overview of the foundational optics and electrochemistry which power these systems the book surveys methods of fabrication applications and projected future developments The result is a comprehensive introduction to an essential medical and biochemical technology Portable and Wearable Sensing Systems readers will also find Treatment of body fluid detection exhaled breath sensing ingestible devices and more Detailed discussion of sensing system types including scattering colorimetric and chemiluminescence Forward looking attention to the latest advances in every chapter Portable and Wearable Sensing Systems is ideal for analytical chemists materials scientists bioengineers biochemists and anyone working with sensing technologies

Arthropod Cell Culture Systems Karl Maramorosch, 2018-01-18 Invertebrate cell culture is increasingly being used in various areas of biological research Research in cellular biology and pathology that previously depended primarily on in vitro investigations of vertebrate animal cell systems is now being conducted using invertebrate cells Specialists and pioneers from the United States Japan Switzerland Slovakia and China have presented original contributions to create a well balanced cross section of current developments Topics discussed include the preparation of cell culture media cultivation of mosquito lepidopteran grasshopper and tick cells the application of such cells to mammalian and plant virus research and diverse applications in medicine biology and agriculture A special chapter devoted to the work of Japanese cell culture pioneers is also featured All chapters are supported by tables photographs and up to date bibliographies

Contemporary Oral and Maxillofacial Surgery, 7 e : South Asia Edition E-book James R. Hupp, Myron R Tucker, Edward Ellis, 2019-08-19 NEW Chapter Anesthesia in Dentistry focuses on anesthesia in greater depth than any of the previous editions including local anesthesia and nitrous oxide sedation

Salivary Glands Abigail S. Tucker, Isabelle Miletich, 2010-01-01 Salivary glands are of utmost importance for several physiological functions ranging from the protection of teeth and surrounding soft tissues to the lubrication of the oral cavity which is crucial for speech and perception of food taste This publication highlights specific aspects of salivary gland

development investigating the mechanisms involved in embryonic development the current research in stem cells the ability of adult glands to regenerate and the signalling pathways involved in this process Key stages of salivary gland development moving from initiation to differentiation of the glands are discussed as well as unusual adaptations ranging from making silk to making venom The book finally provides new data on surgical techniques and diagnostic tools for clinicians involved in salivary gland disorders Researchers and students with an interest in craniofacial sciences as well as clinicians dealing with salivary gland disorders will find this publication an excellent source of up to date information *Revival: CRC Handbook of Laboratory Model Systems for Microbial Ecosystems, Volume I (1988)* Julian W.T. Wimpenny, 2019-01-15 These volumes present the main classes of useful laboratory model systems used to study microbial ecosystems with emphasis on the practical details for the use of each model The most commonly used model the homogeneous fermenter is featured along with linked homogeneous culture systems film fermenters and percolating columns Additionally gel stabilized culture systems which incorporate molecular diffusion as their main solute transfer mechanism and the microbial colony are explained Chapters comparing model systems with microcosms are included along with discussions of the value of computer models in microbial ecosystem research Highlighted is a global discussion of the value of laboratory models in microbial ecology Dental Caries Ole Fejerskov, Bente Nyvad, Edwina Kidd, 2015-05-26 First published in 2003 Dental Caries The Disease and Its Clinical Management has become the leading resource on cariology In this highly anticipated new edition the editors maintain the same focus on high level coverage of the disease etiology and process clinical management best practice and wider public health issues connected with dental caries management including an enhanced focus on the caries control concept The aim is to link theory with clinical performance making prevention diagnosis and restorative procedures evidence based The structure of the book has been completely overhauled with the same coverage streamlined in order to distil information effectively The book is divided into six main sections An overview of the disease and its prevalence The caries lesion and its biological determinants Diagnosis Controlling dental caries Operative intervention Caries control in special populations With contributions from international experts in research and clinical practice the third edition of Dental Caries is an unrivalled guide to tooth decay and a must have resource for undergraduate and postgraduate students in restorative dentistry as well as all practitioners looking to develop their clinical skills

Whispering the Secrets of Language: An Psychological Journey through **Salivary System**

In a digitally-driven earth where monitors reign great and quick conversation drowns out the subtleties of language, the profound strategies and emotional subtleties hidden within words usually get unheard. Yet, located within the pages of **Salivary System** a charming fictional treasure blinking with raw thoughts, lies an exceptional journey waiting to be undertaken. Composed by an experienced wordsmith, this marvelous opus attracts readers on an introspective journey, gently unraveling the veiled truths and profound influence resonating within the very material of every word. Within the psychological depths of the moving review, we will embark upon a genuine exploration of the book is key themes, dissect their captivating publishing model, and yield to the strong resonance it evokes strong within the recesses of readers hearts.

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