

FRONTIERS IN NEUROSCIENCE

# **Advances in Vagal Afferent Neurobiology**

Edited by **Bradley J. Undem**  
and **Daniel Weinreich**



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# Advances In Vagal Afferent Neurobiology Frontiers In Neuroscience

**Steve W C Chang, Masaki Isoda**



## **Advances In Vagal Afferent Neurobiology Frontiers In Neuroscience:**

*Advances in Vagal Afferent Neurobiology* Bradley J. Undem, Daniel Weinreich, 2005-06-01 Taking a comprehensive approach in which all aspects of the vagal afferent system are considered this extensive text reviews the development neurochemistry anatomy biophysics pharmacology and physiology of the vagal afferent nerves The authors present experimental techniques used to investigate the development morphology electrophysiology and reflex function of the vagal afferent nerves and include state of the art reviews of vagal afferent neurobiology by some of the world s leading experts in these fields

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*Novel Insights in the Neurochemistry and Function of Pulmonary Sensory Receptors* Inge Brouns, Isabel Pintelon, Jean-Pierre Timmermans, Dirk Adriaensen, 2011-10-06 With the advances of immunohistochemistry in combination with confocal microscopy airway sensory receptor end organs can now be examined and evaluated objectively Based on their neurochemical coding morphology location and origin three sensory receptor end organs are currently morphologically well characterised smooth muscle associated airway receptors SMARs neuroepithelial bodies NEBs and visceral pleura receptors VPRs The present information on the functional morphological and neurochemical characteristics of these sensory receptors leads to important conclusions about their possible function

*The Pulmonary Neuroepithelial Body Microenvironment* Inge Brouns, Line Verckist, Isabel Pintelon, Jean-Pierre Timmermans, Dirk Adriaensen, 2021-05-05 This monograph sheds new light on pulmonary sensory receptors Diving into the pulmonary microenvironment the book focuses on the role of pulmonary neuroepithelial bodies NEBs as potential receptors and effectors able to store and release neurotransmitters It explores NEBs as potential stem cell niche and highlights the multidisciplinary approach taken to identify and study NEBs including functional morphological investigation live cell imaging genetic models and laser microdissection combined with gene expression analysis Complexly organized NEBs are an integral part of the intrapulmonary airway epithelium of all air breathing vertebrates For decades a quest has been going on to unravel the functional significance of these intriguing structures that appear to be modified in the course of many pulmonary diseases The NEB microenvironment ME is composed of organoid clusters of pulmonary neuroendocrine cells PNECs that are able to store and release neurotransmitters and are closely contacted by extensive nerve terminals emphasizing a potential receptor effector role and probable signalling to the central nervous system PNECs are largely shielded from the airway lumen by a special type of Clara cells the Clara like cells with potential stem cell characteristics So far functional studies of the

pulmonary NEB ME revealed that PNECs can be activated by various mechanical and chemical stimuli resulting in a calcium mediated release of neurotransmitters In the past decades a number of publications have exposed NEBs as potential hypoxia sensors Recent experimental evidence unveiled that the NEB ME is a quiescent stem cell niche in healthy postnatal lungs and silencing may involve bone morphogenetic protein signalling mediated by vagal afferents Only an integrated approach that takes all current information into account will be able to explain the full role of the pulmonary NEB ME in health and disease This highly informative and carefully presented book provides insights for researchers PhD students with an interest in bio medical and veterinary science especially in the field of the autonomic innervation of the lung chemo and mechanoreceptors

**Encyclopedia of Respiratory Medicine** Geoffrey J. Laurent, Stephen D. Shapiro, 2006      **Neural basis of social learning, social deciding, and other-regarding preferences** Steve W C Chang, Masaki Isoda, 2015-03-02 Humans and many other social animals decide or learn when necessary what to do in a given social situation by assessing a range of variables related to social states e g competitive or cooperative others overt behavior e g response choices and outcomes others covert mental states e g beliefs intentions and desires and one s own interpersonal inclination e g other regarding preferences and generosity Recent studies in social neuroscience have begun to uncover how such social variables are processed encoded and integrated in the brain The goal of the current Research Topic is to promote a better understanding of neural basis of social learning social decision making and other regarding preferences      **Advances in Non-Invasive Brain Stimulation Techniques** Mark H. Myers, Gahangir Hossain, 2025-01-07 Studies using transcranial magnetic stimulation transcranial direct current stimulation TMS tDCS and deep brain stimulation DBS have shown significant results in the treatment of addiction ranging from nicotine cocaine heroin to alcohol dependence Specifically research investigating the effects of neurofeedback on nicotine dependent patients showed that modulation of the anterior cingulate cortex can decrease smokers craving for nicotine In several studies decreased craving was found in alcohol dependent patients after TMS or tDCS stimulation of the anterior cingulate cortex or the dorsolateral prefrontal cortex Changing the behavior of neural networks either through the modulation of neural spiking or threshold of neural firing presents another dimension to rehabilitation through neural rewiring or neural smithing Neuromodulation through non invasive brain stimulation techniques have been used beyond the treatment of addiction The capability to modulate macro and micro brain networks through external stimulation have provided a long term rehabilitation approach to solving neurological issues such as tinnitus primary headaches poststroke gait disorders etc The initial goal is to seek new advances in non invasive brain stimulation techniques as a rehabilitation approach to solving neurological issues The second goal is to understand how external neuromodulation effects brain networks by modifying cortical excitability mimicking the long term depression LTD of synaptic plasticity and sliding of the modification threshold for increased excitation or long term potentiation LTP and decreased excitation or LTD as an example Computational and mathematical models have been used to capture how

neuromodulation effects the brain through the modeling of brain networks and hubs neural networks mathematically represented as graphs comprised of nodes neuronal elements and edges their connections and advanced signal processing techniques

**New Frontiers in Noninvasive Brain Stimulation: Cognitive, Affective and Neurobiological Effects of Transcutaneous Vagus Nerve Stimulation** Mathias Weymar, Tino Zaehle, 2021-07-27 *Heart Rate Variability, Health and Well-being: A Systems Perspective* Robert Drury, J. P. Ginsberg, Stephen W. Porges, Julian F. Thayer, 2020-01-09

The development of a new tool analytic device or approach frequently facilitates rapid growth in scientific understanding although the process is seldom linear The study of heart rate variability HRV defined as the extent to which beat to beat variation in heart rate varies is a rapidly maturing paradigm that integrates health and wellness observations across a wide variety of biomedical and psychosocial phenomena and illustrates this nonlinear path of development The utility of HRV as an analytic and interventive technique goes far beyond its original application as a robust predictor of sudden cardiac death This Research Topic aims to provide a conceptual framework to use in exploring the utility of HRV as a robust parameter of health status using a broad and inclusive definition of health and well being From the broadest perspective current biomedical science emerged from shamanistic and religious healing practices and empirically observed interventions made as humans emerged from other hominins The exponential growth of physics chemistry and biology provided scientific support for the model emphasizing pathology and disorders Even before the momentous discovery of germ theory sanitation and other preventive strategies brought about great declines in mortality and morbidity The revolution that is currently expanding the biomedical model is an integrative approach that includes the wide variety of non physio chemical factors that contribute to health In the integrative approach health is understood to be more than the absence of disease and emphasis is placed on optimal overall functioning within the ecological niche occupied by the organism This approach also includes not just interventive techniques and procedures but also those social and cultural structures that provide access to safe and effective caring for sufferers Beyond the typical drug and surgical interventions which many identify with the Western biomedical model that currently enjoys an unstable hegemony such factors also include cognitive behavioral social and cultural practices such as have been shown to be major contributors to the prevention and treatment of disease and the promotion of health and optimal functioning This Integrative Model of Health and Well being also derives additional conceptual power by recognizing the role played by evolutionary processes in which conserved adaptive human traits and response tendencies are not congruent with current industrial and postindustrial global environmental demands and characteristics This mismatch contributes to an increasing incidence of chronic conditions related to lifestyle and health behavior Such a comprehensive model will make possible a truly personalized approach to health and well being including and going far beyond the current emphasis on genomic analysis which has promised more than it has currently delivered HRV offers an inexpensive and easily obtained measure of neurovisceral functioning which has been found to relate to the occurrence and severity of numerous

physical disease states as well as many cognitive behavioral health disorders This use of the term neurovisceral refers to the relationships between the nervous system and the viscera providing a more focused and specific conceptual alternative to the now nearly archaic mind body distinction This awareness has led to the recent and growing use of HRV as a health biomarker or health status measure of neurovisceral functioning It facilitates studying the complex two way interaction between the central nervous system and other key systems such as the cardiac gastroenterological pulmonary and immune systems The utility of HRV as a broad spectrum health indicator with possible application both clinically and to population health has only begun to be explored Interventions based on HRV have been demonstrated to be effective evidence based interventions with HRV biofeedback treatment for PTSD representing an empirically supported modality for this complex and highly visible affliction As an integral measure of stress HRV can be used to objectively assess the functioning of the central enteric and cardiac nervous systems all of which are largely mediated by the vagal nervous complex HRV has also been found to be a measure of central neurobiological concepts such as executive functioning and cognitive load The relatively simple and inexpensive acquisition of HRV data and its ease of network transmission and analysis make possible a promising digital epidemiology which can facilitate objective population health studies as well as web based clinical applications An intriguing example is the use of HRV data obtained at motor vehicle crash sites in decision support regarding life flight evacuations to improve triage to critical care facilities This Research Topic critically addresses the issues of appropriate scientific and analytic methods to capture the concept of the Integrative Health and Well being Model The true nature of this approach can be appreciated only by using both traditional linear quantitative statistics and nonlinear systems dynamics metrics which tend to be qualitative The Research Topic also provides support for further development of new and robust methods for evaluating the safety and effectiveness of interventions and practices going beyond the sometimes tepid and misleading gold standard randomized controlled clinical trial

[Encyclopedia of Neuroscience, Volume 1](#) Larry R. Squire, 2009-06-12 The Encyclopedia of the Neuroscience explores all areas of the discipline in its focused entries on a wide variety of topics in neurology neurosurgery psychiatry and other related areas of neuroscience Each article is written by an expert in that specific domain and peer reviewed by the advisory board before acceptance into the encyclopedia Each article contains a glossary introduction a reference section and cross references to other related encyclopedia articles Written at a level suitable for university undergraduates the breadth and depth of coverage will appeal beyond undergraduates to professionals and academics in related fields

*The British National Bibliography* Arthur James Wells, 2006

**Experimental and Clinical Evidence of the Neuropathology of Parkinson's Disease** Draoui, Ahmed, El Hiba, Omar, Jayakumar, Arumugam R., 2023-08-04 Parkinson's disease is the second most common neurodegenerative disorder in the world after Alzheimer's disease Thanks to the pioneering works of Arvid Carlsson in the 20th century identifying dopamine as the main neurochemical agent involved in Parkinson's disease's onset and progress our understanding of the neuropathology has increased The

elaboration of L Dopa as the first pharmacological treatment approach has brought new hope for curing or at least slowing the neurodegenerative progress and the decline of motor and cognitive functions in Parkinson s disease patients To date imaging techniques along with genetic and biochemical tools have allowed scientists and clinicians to predict and diagnose the disease several years prior to the motor disorder s appearance Experimental and Clinical Evidence of the Neuropathology of Parkinson s Disease sheds light on the history of Parkinson s disease as well as the recent literature on the epidemiological data worldwide including the prevalence of the disease the morbimortality rates and the sex dimorphism and aging components It addresses the current neuropathological evidence of Parkinson s disease including the latest discoveries in terms of neuropathology and treatments available or under clinical trials with the efficacy and limitations of each Covering topics such as epidemiology stem cells and neuropathology this premier reference source is an excellent resource for clinicians physicians epidemiologists neuroscientists microbiologists biochemists pharmacologists toxicologists medical professionals nurses medical students and educators librarians researchers and academicians *Novel Multimodal*

*Approaches in Non-Invasive Brain Stimulation* Nivethida Thirugnanasambandam, Florian H. Kasten, Kaviraja Udupa, 2022-01-11 *Auditory Perception and Phantom Perception in Brains, Minds and Machines* Achim Schilling, Patrick Krauss, Andreas K. Maier, Roland Schaette, William Sedley, Richard Carl Gerum, 2023-10-30 **Brain and Organ**

**Communication** Charu Mahajan, Indu Kapoor, Hemanshu Prabhakar, 2024-09-27 *Brain and Organ Communication Effects of Crosstalk on Neurophysiology* examines the intricate relationship between the brain and other organ systems within the body With an emphasis on homeostasis of these systems this book also explores how various systems are related and affected by the brain injury or organ damage from a neurophysiological standpoint This book will be most useful to researchers in neuroscience and graduate students studying neurophysiology Those with an interest in endocrinology and clinicians in various branches of neuroscience and physiology will also find this book of interest Examines cross talk between the brain and major organ systems Explores multiple organs including heart lungs kidneys gut and more Identifies how this communication affects neurophysiology Provides management strategies for injuries to the brain and organs **Integrative**

**Action of the Autonomic Nervous System** Wilfrid Jänig, 2006-07-06 Almost all bodily functions are dependent on the functioning of the autonomic nervous system from the cardiovascular system the gastrointestinal tract the evacuative and sexual organs to the regulation of temperature metabolism and tissue defence Balanced functioning of this system is an important basis of our life and well being This book gives a detailed description of the cellular and integrative organization of the autonomic nervous system covering both peripheral and central aspects It brings to light modern neurobiological concepts that allow understanding of why the healthy system runs so smoothly and why its deterioration has such disastrous consequences This academic reference volume will appeal to advanced undergraduate and graduate students studying the neurobiology of the autonomic nervous system within the various biological and medical sciences and will give access to

ideas propagated in psychosomatic and alternative medicines      Hormones, Regulators and Hippocampus Gerald Litwack, 2022-02-16 Hormones Regulators and Hippocampus Volume 118 in the Vitamins and Hormones serial highlights new advances in the field with this new volume presenting interesting chapters including Thyroid hormone regulation of adult hippocampal neurogenesis putative molecular and cellular mechanisms Synergistic gene regulation by thyroid hormone and glucocorticoid in the hippocampus Oxytocin and vasopressin in the hippocampus Steroid hormones and hippocampal neurogenesis in the adult mammalian brain Steroidogenic enzymes in the hippocampus transcriptional regulation aspects Ectonucleotidases in the hippocampus spatial distribution and expression after ovariectomy and estradiol replacement and much more Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in the Vitamins and Hormones serials Updated release includes the latest information on Hormones Regulators and Hippocampus      *Anxious* Joseph LeDoux, 2015-08-20 Anxiety is the most prevalent psychiatric problem of our time Decades of research have gone into probing its mysteries and developing treatments But what if we've been thinking about fear and anxiety in the wrong way for all these years This is the groundbreaking premise behind a wave of new research led by the lab of renowned neuroscientist Joseph LeDoux He believes that fear and anxiety are not innate states simply waiting to be unleashed in the brain Rather they are assembled experiences and that has huge implications for patients By mapping brain circuits LeDoux explains the origins of anxiety disorders and reveals discoveries that can restore sufferers to normality As impressive as it is timely *Anxious* is a comprehensive survey of cutting edge research revolutionising the way we treat our most pressing mental health issue      *Afferent Neurons: Advances in Research and Application: 2011 Edition* , 2012-01-09 *Afferent Neurons Advances in Research and Application 2011 Edition* is a ScholarlyPaper that delivers timely authoritative and intensively focused information about Afferent Neurons in a compact format The editors have built *Afferent Neurons Advances in Research and Application 2011 Edition* on the vast information databases of ScholarlyNews You can expect the information about Afferent Neurons in this eBook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of *Afferent Neurons Advances in Research and Application 2011 Edition* has been produced by the world's leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com>



## **Advances In Vagal Afferent Neurobiology Frontiers In Neuroscience** Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Advances In Vagal Afferent Neurobiology Frontiers In Neuroscience**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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