

Neurophysiology of Ingestion

Edited by

D. A. BOOTH

Preface

This book is centred on electrical recordings from single neurones that are related to the control of food or drink consumption. This is because of my conviction that unit recording is the key to understanding how the brain works.

There has been half a century of vigorous research into the neuroscience of intake. Obese or self-starving rats with damage in the hypothalamus have been famous among generations of students of psychology and neurobiology. Nevertheless, this book is the first to focus on bringing together the major contributions of integrative cellular neurophysiology to the understanding of the neural bases of mammalian eating and drinking behaviour. The reader is invited to consider how important a step in the right direction the appearance of this little volume might be.

The book is written for scientists and students who are interested in the brain mechanisms of eating and drinking, whether or not they work in neuroscience or ingestive behaviour. The chapter authors have been encouraged to review their own and others' research on a particular aspect of ingestive neuroscience in a way that is accessible to biological or behavioural scientists in other areas, but that can also serve to update colleagues working on other aspects of the neural bases of food and water intake and choice.

I am most grateful to my fellow authors for the enthusiasm, dedication and patience that they have shown during this enterprise. Also, without the invitation from Bill Wadlow to contribute to the Pergamon Studies in Neuroscience series, this sort of book would still not have been produced, under my editorship at least.

Food and drink are fun. Research is a highly involving activity. Communication of ideas can bring great satisfaction when it materialises in print. I hope that readers too will share the pleasures of chewing over and digesting these issues about how we eat and drink, while regularly continuing to enjoy ingestive activity itself!

Edinburgh, July 1993

DAVID BOOTH

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A framework for neurophysiological studies of ingestion

D. A. BOOTH

Neuroscience Laboratories, School of Psychology, University of Birmingham, England

The neuroscience of ingestion is a long-established and vigorous area of research activity, represented in many of the textbooks. Intakes of food and drink became a topic for experiments on the brain in the 1940s, before electrical recording from nerve cells was generally feasible. In 1962, at the first conference on food and fluid intake as a satellite to the Congress of the International Union of Physiological Sciences, much of the work reported involved lesions or stimulation of rats' brains. Since 1970, Feeding and Drinking or, latterly, Ingestive Behaviour has been an area with its own series of sessions at the annual meetings of the Society for Neuroscience.

Yet research into the neural mechanisms of vertebrate food and water intake has not been obviously part of the mainstream of brain research. Invertebrate ingestion has been closer to other neuroscience but has had few links with intake by mammals and birds.

The 1940s also saw the beginning of theoretical work on the embodiment of cognitive functions in cellular interactions within a nervous system linked to its environment. This start on a mechanistic science of brain and behaviour was based on considerable neuroanatomical evidence and early findings from cellular electrophysiology. When the technique of unit recording became more widely applicable in the 1960s, systematic detail could be collected which has provided the foundation for a fully fledged science of integrative neurophysiology.

However, the psychologists and biologists of vertebrate intake rather seldom attempted to relate their research to evidence on what the nerve cells actually did. Neither theories nor data on the electrical activity of systems of neuronal units have been a major or central theme in the research journals or textbook

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Neurophysiology Of Ingestion Pergamon Studies In Neuroscience

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Wickens, 1993-11-24 **A Theory of the Striatum** **Neural Modeling and Neural Networks** F. Ventriglia, 2013-10-22 Research in neural modeling and neural networks has escalated dramatically in the last decade acquiring along the way terms and concepts such as learning memory perception recognition which are the basis of neuropsychology Nevertheless for many neural modeling remains controversial in its purported ability to describe brain activity The difficulties in modeling are various but arise principally in identifying those elements that are fundamental for the expression and description of superior neural activity This is complicated by our incomplete knowledge of neural structures and functions at the cellular and population levels The first step towards enhanced appreciation of the value of neural modeling and neural networks is to be aware of what has been achieved in this multidisciplinary field of research This book sets out to create such awareness Leading experts develop in twelve chapters the key topics of neural structures and functions dynamics of single neurons oscillations in groups of neurons randomness and chaos in neural activity statistical dynamics of neural networks learning memory and pattern recognition **Neuroregulatory Mechanisms in Aging** G. B. Stefano, 1993-11-24 Neuroregulatory Mechanisms in Aging **Thalamic Networks for Relay and Modulation** Diego Minciocchi, Marco Molinari, Giorgio Macchi, 2013-09-03 Thalamic Networks for Relay and Modulation is the third in a series that springs from an idea of Giorgio Macchi who wished to establish periodical updates on thalamic research by bringing to Italy investigators who would engage in an international sharing of ideas and experiences It reflects the renewed interest in the modulation of thalamic relay activity by intrinsic and extrinsic sources while continuing to underscore the essential role of the thalamus as the gatekeeper of the cerebral cortex and of the pathways to perception The papers that form the substance of this book were presented at a Symposium held at the Catholic University Rome Italy in September 1992 as a Satellite to the 15th Annual Meeting of the European Neuroscience Association The volume is organized into four parts Part I is basically concerned with developmental and evolutionary approaches Part II highlights relay functions of visual motor and somatosensory relay nuclei and relay functions of the intralaminar nuclei Part III deals primarily with the pharmacology of thalamic neurons Part IV emphasizes the mechanisms that underlie the functional assembly of thalamic cells into collectively acting ensembles largely revealed in rhythmic oscillations and on the behavioral manifestations that accompany them **EBOOK: Psychology: The Science of Mind and Behaviour** Nigel Holt, Andy Bremner, Ed Sutherland, Michael Vliek, Michael Passer, Ronald Smith, 2015-02-16 Psychology The Science of Mind and Behaviour is here with a new fully updated and revised third edition Bringing new developments in the field and its renowned pedagogical design the third edition offers an exciting and engaging introduction

to the study of psychology This book's scientific approach which brings together international research practical application and the levels of analysis framework encourages critical thinking about psychology and its impact on our daily lives Key features Fully updated research and data throughout the book as well as increased cross cultural references Restructured Chapter 3 on Genes Environment and Behaviour which now starts with a discussion of Darwinian theory before moving on to Mendelian genetics Core subject updates such as DSM 5 for psychological disorders and imaging techniques on the brain are fully integrated Revised and updated Research Close Up boxes Current Issues and hot topics such as the study of happiness and schizophrenia intelligence testing the influence of the media and conflict and terrorism are discussed to prompt debates and questions facing psychologists today New to this edition is Recommended Reading of both classic and contemporary studies at the end of chapters Connect Psychology a digital teaching and learning environment that improves performance over a variety of critical outcomes easy to use and proven effective LearnSmart the most widely used and intelligent adaptive learning resource that is proven to strengthen memory recall improve course retention and boost grades SmartBook Fuelled by LearnSmart SmartBook is the first and only adaptive reading experience available today EBOOK: Psychology 5e

HOLT, 2023-02-09 The fifth edition of Psychology The Science of Mind and Behaviour continues to build on its strong biopsychosocial approach and balancing of classical and contemporary theory The celebrated pedagogical design has been reinforced with additional pedagogical features and real world issues to offer an exciting and engaging introduction to the study of psychology The fifth edition has been fully updated to reflect new developments in the field and the scientific approach brings together international research and practical application to encourage critical thinking about psychology and its impact on our societies and daily lives Key features Brand New The Bigger Picture takes a step back and reflects on how a subject can be interpreted from different angles Replacing the Levels of Analysis feature the Bigger Picture explores not only the biological psychological and environmental levels but also cultural and developmental aspects as well Brand New Learning Goals and Review Questions encourage students to consider the core learnings of each chapter and critically assess their real world implications New and Updated Psychology at Work interviews from Psychologists in the field are now included in every chapter They provide a glimpse into their day to day work and the career path they have taken since completing a psychology degree Research Close Ups reflect new research and literature as well as updated critical thinking questions to encourage analysis and evaluation of the findings Current issues and hot topics such as Covid 19 fake news workplace psychology social media prosociality and critical perspectives of positive psychology prompt debates on the questions facing psychologists today Nigel Holt is Head of Department of Psychology at Aberystwyth University Wales Andy Bremner is Professor of Developmental Psychology and Head of Education at the University of Birmingham UK Michael Vliek is an affiliate of the University of Amsterdam The Netherlands and lectures at the University of Leiden The Netherlands Ed Sutherland is an Associate Professor in Psychology and Director of Learning and Teaching at the University of Leeds UK

Michael W Passer is an Associate Teaching Professor at the University of Washington USA Ronald E Smith is Professor Emeritus of Psychology at the University of Washington USA *Information Processing Underlying Gaze Control* J. M. Delgado-García, E. Godaux, P.-P. Vidal, 2018-04-19 *Information Processing Underlying Gaze Control* covers the proceedings of the Satellite Workshop to the 16th European Neuroscience Association The book presents materials concerning the computational properties of neuronal circuits underlying gaze control The book contains 44 papers which are organized into seven sections The first section deals with the morphology and physiology of extraocular motor nuclei Section II tackles the anatomo functional organization of the saccadic system and Section III covers the vestibular and otolithic systems Section IV discusses the optokinetic and smooth pursuit systems while Section V talks about other sensory systems involved in the control of oculomotor function Section VI covers the role of cerebellum in the genesis and control of eye movements and Section VII tackles the coordination of eye head and body movements The text will be of great use to researchers who have an interest in gaze control **Pharmacology, Biochemistry and Behavior**, 1994-07 Emotion and Decision Making Explained Edmund T. Rolls, 2014 What produces emotions Why do we have emotions How do we have emotions Why do emotional states feel like something What is the relation between emotion and reward value and subjective feelings of pleasure These are just some of the question considered in this book written by a leading neuroscientist in this field *Subject Guide to Books in Print*, 1996 *Olfaction, Taste, and Cognition* Catherine Rouby, Benoist Schaal, Danièle Dubois, Rémi Gervais, A. Holley, 2002-10-28 The human organs of perception are constantly bombarded with chemicals from the environment Our bodies have in turn developed complex processing systems which manifest themselves in our emotions memory and language Yet the available data on the high order cognitive implications of taste and smell are scattered among journals in many fields with no single source synthesizing the large body of knowledge much of which has appeared in the last decade This book presents the first multidisciplinary synthesis of the literature in olfactory and gustatory cognition Leading experts have written chapters on many facets of taste and smell including odor memory cortical representations psychophysics and functional imaging studies genetic variation in taste and the hedonistic dimensions of odors The approach is integrative combining perspectives from neuroscience psychology anthropology philosophy and linguistics and is appropriate for students and researchers in all of these areas who seek an authoritative reference on olfaction taste and cognition Research Grants Index National Institutes of Health (U.S.). Division of Research Grants, 1972 **Brain Computations and Connectivity** Edmund T. Rolls, 2023-06-26 This is an open access title available under the terms of a CC BY NC ND 4.0 International licence It is free to read on the Oxford Academic platform and offered as a free PDF download from OUP and selected open access locations *Brain Computations and Connectivity* is about how the brain works In order to understand this it is essential to know what is computed by different brain systems and how the computations are performed The aim of this book is to elucidate what is computed in different brain systems and to describe current biologically plausible

computational approaches and models of how each of these brain systems computes Understanding the brain in this way has enormous potential for understanding ourselves better in health and in disease Potential applications of this understanding are to the treatment of the brain in disease and to artificial intelligence which will benefit from knowledge of how the brain performs many of its extraordinarily impressive functions This book is pioneering in taking this approach to brain function to consider what is computed by many of our brain systems and how it is computed and updates by much new evidence including the connectivity of the human brain the earlier book Rolls 2021 Brain Computations What and How Oxford University Press Brain Computations and Connectivity will be of interest to all scientists interested in brain function and how the brain works whether they are from neuroscience or from medical sciences including neurology and psychiatry or from the area of computational science including machine learning and artificial intelligence or from areas such as theoretical physics

Molecules and Cells G. A. Chauvet, 2013-10-22 Theoretical Systems in Biology Hierarchical and Functional Integration Volume I Molecules and Cells covers the molecular and cellular aspects of classical biology The book is comprised of 12 chapters which are organized into three parts Part I covers topics relating to the materials and methods in biological dynamics such as macromolecular components and interactions chemistry of cells and biological dynamics Part II deals with the molecular organization of living matter this part covers the organization of biological systems and the relationship between evolution and physiology Part III talks about issues concerning the cellular organization of living matter such as regulation of cell function cell growth and cell division The book will be of great use to biologists concerned with the theoretical systems in biology specifically in cells and molecules **Organisation and Regulation** G. A. Chauvet, 1996-06-14 Organisation and Regulation The Psychobiology of Human Motivation Hugh Wagner, 2021-02-03 This is a classic edition of Hugh Wagner s influential overview of the biopsychological underpinnings of human motivation It includes a new foreword written by Michael Richter who reflects on Wagner s 20 years of teaching writing and research in the field of biopsychology and promises an engaging succinct and accessible introductory text that remains relevant and useful to students today The Psychobiology of Human Motivation explores what directs our behaviour from basic physiological needs like hunger and thirst to more complex aspects of social behaviour like altruism Wagner explores the limits of biological explanations and shows how humans can influence basic physiological drives in order to adapt to a complex social environment An accessible engaging resource strengthened by many applied examples Wagner s text continues to be integral reading for undergraduate students seeking a solid introduction to the psychology of human motivation across the social and behavioural sciences Theoretical Systems in Biology Gilbert Chauvet, 1996 **Medical and Health Care Books and Serials in Print** , 1997

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