

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

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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 D. A. Booth, 1993-11-24 **Neurophysiology of Ingestion** **EBOOK: Psychology: The Science of Mind and Behaviour, 4e** Nigel Holt, Andy Bremner, Ed Sutherland, Michael Vliek, Michael Passer, Ronald Smith, 2019-03-01 **EBOOK Psychology The Science of Mind and Behaviour 4e** *A Theory of the Striatum* J. 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 Minciacchi, 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

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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

Functional Neuroscience E. Roy John, Robert W. Thatcher, Thalía Harmony, 2022-07-30 The late E Roy John is considered the pioneer in the field of neurometrics the science of measuring the underlying organization of the brain's electrical activity Volume 1 co authored by Robert W Thatcher and Volume 2 both originally published in 1977 were among the first books in this field Volume 3 written by colleague Thalía Harmony followed in 1984 The field expanded significantly in the 1990s and thousands of articles have subsequently been published Available together for the first time these 3 volumes were important foundational works for the fields of quantitative electrophysiology and neurometrics

The Handbook of Multisensory Processes Gemma Calvert, Charles Spence, Barry E. Stein, 2004 Research is suggesting that rather than our senses being independent perception is fundamentally a multisensory experience This handbook reviews the evidence and explores the theory of broad underlying principles that govern sensory interactions regardless of the specific senses involved

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

[Subject Guide to Books in Print](#), 1996

Brain Computations and Connectivity Edmund T. Rolls, 2023 Brain Computations and Connectivity is about how the brain works and elucidates what is computed in different brain systems and

describes current biologically plausible computational approaches and models of how each of these brain systems computes

Research Grants Index National Institutes of Health (U.S.). Division of Research Grants,1972 The Noisy Brain Edmund T. Rolls,Gustavo Deco,2010-01-28 The activity of neurons in the brain is noisy in that the neuronal firing times are random for a given mean rate The Noisy Brain shows that this is fundamental to understanding many aspects of brain function including probabilistic decision making perception memory recall short term memory attention and even creativity There are many applications too of this understanding to for example memory and attentional disorders aging schizophrenia and obsessive compulsive disorder **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 Theoretical Systems in Biology Gilbert Chauvet,1996 Pharmacology, Biochemistry and Behavior ,1994-07 Brain Computations Edmund T. Rolls,2021 In order to understand how the brain works it is essential to know what is computed by different brain systems and how those computations are performed This is the aim of Brain Computations What and How Pioneering in its approach this book will be of interest to all scientists interested in brain function and how the brain works

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