

# 03 - Neuroscience 1 Module Notes

January 22, 2022 10:12 PM

## INTRODUCTION TO THE NEURAL CONTROL OF BEHAVIOUR

- The brain is an astounding organ
- Rene Descartes - Dualist framework
  - The mind was seen as a separate entity existing outside of our biology, yet in control of our actions and thoughts
  - The physical brain was thought to serve in part as a connection between the mind and body
- The challenge for neuroscience is to understand how the biological brain produces the mental processes of the mind
  - Consider the brain to be the hardware that is driven by the software of the mind
- Neuroscience can be studied alongside psychology at multiple levels

## THE NEURON

- Cells specialize to a variety of functions
- Neural anatomy is prime for communicating information
- Neuron contains 2 different zones
  - Receptive zone - receive signals from neurons
    - Dendrite - reach out to other neurons & receives signals
    - Cell body (genetic structure, maintain structure, provide energy)
  - Transmission zone - pass signals to other cells
    - Passed from the receptive zone
    - Axons (short & long)
    - Axon terminal (terminal bouton) - to transmit the signal further
  - Glial cells support, nourish, and provide insulation for neurons
- Neurons and glial cells create a complex network for information transfer

## THE ACTION POTENTIAL

- Cell membrane is semi-permeable; contains channels
  - Potassium & sodium channels
- The movement of ions across a membrane dictates neural communication
- A resting electrical imbalance exists between the two sides of neurons
- Resting potential (-70mv)
- Leak potassium channels maintain the resting potential of a neuron



- Leak potassium channel is always on
- Sodium and chloride ions rest on the outside of the cell
- Ligand gated channels only work when ligand/other substance binds to it
- Voltage gated channels drive the action potential
- The action potential is the trigger for neural communication
  - Na channels open → Na<sup>+</sup> rushing into the cell → K<sup>+</sup> leave the cell through the leak channels → voltage gated K<sup>+</sup> channel opens → more K<sup>+</sup> leave the cell → Na channels close; K<sup>+</sup> channel remains open → K<sup>+</sup> continues to leave the cell → K<sup>+</sup> channel closed → resting potential
  - Absolute - second action potential can't be activated
  - Relative - second action potential may be activated; second action potential must be a larger stimulus (greater intensity) than the first

# Neuroscience Protocols Module 1

**O García**



## Neuroscience Protocols Module 1:

*The Health Project Book* Dr Neil Wood, Neil Wood, 2002-04-12 A practical and detailed guide to all aspects of conducting a research project in health The book encourages a systematic approach and emphasises the best use of modern technology including software and the Internet

*Neuroscience protocols*, **Preventing Chemical Weapons** Michael Crowley, Malcolm Dando, Lijun Shang, 2018-08-20 The life and chemical sciences are in the midst of a period of rapid and revolutionary transformation that will undoubtedly bring societal benefits but also have potentially malign applications notably in the development of chemical weapons Such concerns are exacerbated by the unstable international security environment and the changing nature of armed conflict which could fuel a desire by certain States to retain and use existing chemical weapons as well as increase State interest in creating new weapons whilst a broader range of actors may seek to employ diverse toxic chemicals as improvised weapons Stark indications of the multi faceted dangers we face can be seen in the chemical weapons attacks against civilians and combatants in Iraq and Syria and also in more targeted chemical assassination operations in Malaysia and the UK Using a multi disciplinary approach and drawing upon an international group of experts this book analyses current and likely near future advances in relevant science and technology assessing the risks of their misuse The book examines the current capabilities limitations and failures of the existing international arms control and disarmament architecture notably the Chemical Weapons Convention in preventing the development and use of chemical weapons Through the employment of a novel Holistic Arms Control methodology the authors also look beyond the bounds of such treaties to explore the full range of international law international agreements and regulatory mechanisms potentially applicable to weapons employing toxic chemical agents in order to develop recommendations for more effective routes to combat their proliferation and misuse A particular emphasis is given to the roles that chemical and life scientists health professionals and wider informed activist civil society can play in protecting the prohibition against poison and chemical weapons and in working with States to build effective and responsive measures to ensure that the rapid scientific and technological advances are safeguarded from hostile use and are instead employed for the benefit of us all

fMRI Techniques and Protocols Massimo Filippi, 2025-06-02 This third edition volume expands on the previous edition with updates on the latest methodological aspects of fMRI and achievements made through the applications to the study of central nervous system functioning in the clinical field The chapters in the book are organized in four parts Part One talks about the basic knowledge for the understanding of the technical aspects of fMRI Part Two describes the main findings obtained from the application of fMRI to study brain system function of healthy individuals Part Three explores clinical findings obtained from the use of fMRI to assess the role of brain plasticity in major neurological and psychiatric conditions Part Four presents novel approaches for the integration of fMRI data with measures of damage assessed using structural MR techniques and the use of fMRI to image spinal cord function In the Neuromethods series style chapters include the kind of detail and key advice

from the specialists needed to get successful results in your laboratory Cutting edge and comprehensive fMRI Techniques and Protocols Third Edition provides clinicians and researchers with a user friendly summary of the field and helps them plan and carry out successful studies **Books in Print** ,1991 **Subject Guide to Books in Print** ,1997 *Neuroscience Protocols* F. G. Wouterlood,1995-01-01 Loose leaf Binder Neuroscience Protocols NP is a laboratory manual which provides protocols of new and established techniques used in neuroscience The close collaboration of Brain Research and Neuroscience Protocols under the aegis of Elsevier will permit neuroscientists to describe in appropriate detail all the fine nuances of their methods and techniques The protocols are supplied in a loose leaf format with a ring binder This makes it easy to remove the protocol you are using or replace it with an update NP is a compilation of modules Each module contains about 10 12 new or updated protocols covering several subjects This is a combination of the modules 1 4 with cumulative contents NP is divided into the following sections Behavioural Neurobiology Cellular and Molecular Neurobiology Developmental Biology Neuroimmunology Neuromorphology Neuropharmacology and Neurochemistry Neurophysiology and Quantitative Neurobiology The Managing Edit **Preventing Weaponization of CNS-acting Chemicals** Michael Crowley, Malcolm Dando, 2025-11-24 Recent advances in neuroscience the study of the mechanisms within the brain that underlie our behaviours and what happens when these go wrong have been profound However benignly intended neurological research that seeks to understand dysfunction in the central nervous system CNS could be misused for example in the development of novel CNS acting chemical agent weapons for use in armed conflict and also in repression of civilian populations This book follows a 3 step Holistic Arms Control approach examining the bio chemical agents and relevant physiological systems they affect as well as associated dual use technologies that need to be regulated analysing a range of potentially applicable international law international arms control disarmament and other instruments and attendant control regimes constraining misuse and finally providing a strategy to strengthen existing regulatory mechanisms as well as suggest new measures to prevent the misuse of the neurosciences and associated dual use technologies without limiting the widespread health and other societal benefits that flow from their benign application Suitable for biochemists and researchers in the areas of neuroscience neurochemistry and neuropharmacology this book will also be of interest for those working in arms control disarmament and related legal fields as well as forensic medicine and toxicology **Short Protocols in Neuroscience** Jacqueline N. Crowley, 2007 Short Protocols in Neuroscience Systems and Behavioral Methods provides a portable and streamlined at the bench resource of systems and behavioral methods from the acclaimed Current Protocols in Neuroscience It covers areas such as electrophysiological analysis of neural cells the chemistry and pharmacology of the nervous system behavioral analysis and animal models of neurologic and psychiatric disorders **Behavioural Neuroscience** Arjun Sahgal, 1993 The field of behavioral neuroscience has seen a recent explosion of experimental techniques adding to the sometimes bewildering array of strategies available to study behavior brain

relationships Behavioural Neuroscience A Practical Approach available as a two volume set provides the most up to date comprehensive guide available for both choosing and successfully implementing appropriate methods in the laboratory Each chapter includes detailed protocols that consider both theoretical and practical considerations Volume I covers computerized methods of control as well as the more cognitive aspects of behavior including learning attention and memory Volume II focuses on methods for studying locomotor activity motivation and affect drug discrimination and signal detection The volumes will be of significant interest to a wide variety of students and researchers in neuroscience experimental psychology and pharmacology

**Neuroscience Letters** ,1996-12 *International Books in Print* ,1990 *Neuroscience Protocols* Floris G. Wouterlood,1996-01-01 Neuroscience Protocols NP is a laboratory manual which provides protocols of new and established techniques used in neuroscience The protocols are supplied in a loose leaf format with a ring binder NP is a compilation of modules Each new module contains updated cumulative contents of modules already published NP is divided into the following sections Behavioral Neurobiology Cellular and Molecular Neurobiology Developmental Neurobiology Neuroimmunology Neuromorphology Neuropharmacology and Neurochemistry Neurophysiology and Quantitative Neurobiology

**Neuroscience** Anne Alexandrov,2009 This Neuroscience nursing issue Guest Edited by Anne W Alexandrov focuses on use of acute care Nurse Practitioners in neuroscience critical care Post graduate advances practice neurovascular fellowship education and training NET SMART management of Traumatic Brain Injury management of Subarachnoid Hemorrhage management of Hyperacute Ischemic Stroke Teletroke Systems Antiplatelet Therapy Migraine and Intracardiac Right to Left Shunt Weight agreement in Ischemic Stroke Treatment Inflammatory biomarkers for Ischemic Stroke and glycemic control in neurovascular disease *The Journal of Neuroscience* ,2009

**Practical Guide to Computer Application in Neurosciences** Jan Bures,Ivan Krekule,Gustav Brožek,1982 Adopts an unconventional approach to help neuroscientists master computer control and programming Provides computer programs that demonstrate the most important programming techniques as well as their fundamental biomedical and neuropsychological applications Uses programs written at various levels LAP 6 PAL 11 BASIC and FORTRAN IV to illustrate each problem focusing on the teaching aspects of the programs *CSA Neurosciences Abstracts* ,1997

**International Journal of Neuroscience** ,1981 *Medical and Health Care Books and Serials in Print* ,1997 [Society for Neuroscience Abstracts](#) Society for Neuroscience. Meeting,2001

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