



- **Neurons** are nerve cells that transfer information within the body.
- The **brain** is the organ of the central nervous system where information is processed and integrated.
- **Ganglion** is a cluster, functional group, of nerve cell bodies in a centralized nervous system.

### 37.1 Neuron structure and organization reflect function in information transfer

- Most of a neuron's organelles, including its nucleus, are located in the **cell body**.
- A typical neuron has numerous highly branched extensions called **dendrites**.
- A neuron also has a single **axon**, an extension that transmits signals to other cells.
- The cone-shaped base of an axon, called the **axon hillock**, is typically where signals that travel down the axon are generated.
- Each branched end of an axon transmits information to another cell at a junction called a **synapse**.
- The part of each axon branch that forms this specialized junction is a **synaptic terminal**.
- At most synapses, chemical messengers called **neurotransmitters** pass information from the transmitting neuron to the receiving cell. The transmitting neuron is the **presynaptic cell** and the neuron, muscle, or gland cell that receives the signal is the **postsynaptic cell**.
- The neurons of vertebrates and most invertebrates require supporting cells called **glia**, or **glial cells**. Glia nourish neurons, insulate the axons of neurons, and regulate the extracellular fluids surrounding the neurons.
- **Sensory neurons** transmit information to processing centers in the brain or ganglia. Some sensors detect external stimuli such as light, sound, touch, or smell, whereas others monitor internal conditions such as blood pressure or muscle tensions.
- Neurons in the brain or ganglia integrate, analyze and interpret, the sensory input, taking into account the immediate context and the animal's experience. The vast majority of neurons in the brain are **interneurons**, which form the local circuits connecting neurons in the brain.
- Neurons that extend out of the processing centers trigger output in the form of muscle or gland activity. **Motor neurons** transmit signals to muscle cells, causing them to contract.
- In many animals, the neurons that carry out integration are organized in a **central nervous system (CNS)**, which includes the brain and a longitudinal nerve cord.
- The neurons that carry information into and out of the CNS constitute the **peripheral nervous system (PNS)**.
- When bundled together, such neurons form **nerves**.

### 37.2 Ion pumps and ion channels establish the resting potential of a neuron

- In a neuron, ions are unequally distributed between the cell interior and the surrounding extracellular fluid. As a result, the inside of a cell is negatively charged relative to the outside. Because the attraction of opposite charges across the plasma membrane is a source of potential energy, this charge difference, or **voltage**, is called the **membrane potential**.
- For a resting neuron, one that is not sending a signal, the membrane potential is called the **resting potential** and is typically between  $-60$  and  $-80$  mV, millivolts.
- For most neurons, the concentration of  $K^+$  is higher inside the cell, while the concentration of  $Na^+$  is higher outside. These  $Na^+$  and  $K^+$  gradients are maintained by the **sodium-potassium pump**. This ion pump uses the energy of ATP hydrolysis to actively transport  $Na^+$  out of the cell and  $K^+$  into the cell.
- **Ion channels** are pores formed by clusters of specialized proteins that span the membrane. Ion channels allow ions to diffuse back and forth across the membrane. As ions diffuse through channels, they carry with them units of electrical charge. Any resulting net movement of positive or negative charge will generate a membrane potential or voltage across the membrane.
- The concentration gradients of  $K^+$  and  $Na^+$  across the plasma membrane represent a chemical form of potential energy. The ion channels that convert this chemical potential energy to electrical

| Ion                                    | Intracellular Concentration (mM) | Extracellular Concentration (mM) |
|----------------------------------------|----------------------------------|----------------------------------|
| Potassium ( $K^+$ )                    | 140                              | 5                                |
| Sodium ( $Na^+$ )                      | 12                               | 140                              |
| Calcium ( $Ca^{2+}$ )                  | 10                               | 1.00                             |
| Chloride ( $Cl^-$ ) (varies by tissue) | 4                                | 100 (not applicable)             |

# Pogil Lab Immunity

**Anne O'Garra, Michel  
Nussenzweig, Stephen Smale, David  
Stewart, Bruce Stillman**

## **Pogil Lab Immunity:**

Immunology: Overview and Laboratory Manual Tobili Y. Sam-Yellowe, 2021-08-01 A two in one text providing teaching lab students with an overview of immunology as well as a lab manual complete with current standard exercises Section I of this book provides an overview of the immune system and immunity and includes review questions problem sets case studies inquiry based questions and more to provide students with a strong foundation in the field Section II consists of twenty two lab exercises focused on key concepts in immunology such as antibody production cell separation cell function immunoassays Th1 Th2 cytokine detection cell and tissue culture methods and cell and molecular biology techniques Appendices include safety information suggested links and readings and standard discipline processes protocols and instructions

**Immunity and Tolerance** Anne O'Garra, Michel Nussenzweig, Stephen Smale, David Stewart, Bruce Stillman, 2013 The first time I went to the United States was in 1953 to the Cold Spring Harbor symposium where Jim Watson described in detail his model of double helix All these symposia were extremely important I think Cold Spring Harbor was one of the birthplaces of molecular biology Francois Jacob The Symposia have been one of the great institutions of such research for over 70 years and the history of whole fields can be found in the pages of the Symposia volumes The 78th Cold Spring Harbor Symposium addresses Immunity Tolerance Topics include Stem cells and cell fate decisions Regulation of immune cell development Antigen receptor gene assembly and modification Signal transduction Regulation of lymphocyte function Innate immune response and inflammation Adaptive immunity Mucosal immunity Organ specific immunity Immune regulation and tolerance Autoimmunity and allergy Immunity and cancer Pathogen immune system interactions Vaccine development Novel strategies to engineer harness immunity

**Immunity** William E. Paul, 2015-11-15 A leading figure in immunology takes readers inside the remarkably powerful human immune system Winner of the CHOICE Outstanding Academic Title of the Choice ACRL The immune system has incredible power to protect us from the ravages of infection Boosted by vaccines it can protect us from diseases such as measles However the power of the immune system is a double edged sword an overactive immune system can wreak havoc destroying normal tissue and causing diseases such as type I diabetes rheumatoid arthritis and multiple sclerosis The consequences of an impaired immune system on the other hand are all too evident in the agonies of AIDS Packed with illustrations stories from Dr William E Paul s distinguished career and fascinating accounts of scientific discovery Immunity presents the three laws of the human immune system universality tolerance and appropriateness and explains how the system both protects and harms us From the tale of how smallpox was overcome and the lessons of the Ebola epidemic to the hope that the immune system can be used to treat or prevent cancer Dr Paul argues that we must take advantage of cutting edge technologies and promising new tools in immunological research

*Innate Immunity: Resistance and Disease-Promoting Principles* G., Hartmann, H., Wagner, 2013-06-05 Our understanding of the complex innate immune response is increasing rapidly Its role in the protection against viral or bacterial pathogens is essential for the survival of an

organism However it is equally important to avoid unregulated inflammation because innate immune responses can cause or promote chronic autoinflammatory diseases such as gout atherosclerosis type 2 diabetes or certain aspects of the metabolic syndrome In this book leading international experts in the field of innate immunity share their findings define the state of the art in this field and evaluate how insight into the molecular basis of these diseases could help in the design of new therapies A tremendous amount of work on the innate immune response has been done over the last fifteen years culminating in the 2011 Nobel Prize in Physiology Medicine awarded for the discoveries of Toll genes in immunity in flies membrane bound Toll like receptors in mammals and dendritic cells as initiators of adaptive immunity

**Immunity; Methods of Diagnosis and Therapy and Their Practical Application** Julius Bernhard Citron, 1912

**Lessons in Immunity** Lorian Ballarin, Matteo Cammarata, 2016-04-08

Lessons in Immunity From Single cell Organisms to Mammals stems from the activity of the Italian Association of Developmental and Comparative Immunobiology IADCI represented by the editors This book is presented as a series of short overviews that report on the current state of various relevant fields of immunobiology from an evolutionary perspective The overviews are written by authors directly involved in the research and most are members of the IADCI or have otherwise been involved in the related research for their respective overview This publication offers scientists and teachers an easy and updated reference tool Provides simple and updated reviews on the immunobiology of a wide spectrum of organisms considered in an evolutionary context Focuses on both cells and humoral components of a variety of non classical model organisms Offers in a single volume many contributions which can help with understanding the evolution of immune responses and the main adaptations in animal phyla Presents a valuable holistic cross sectional approach for teaching immunology and its applications

**Molecular Aspects of Innate and Adaptive Immunity** Kenneth B M Reid, Robert B Sim, 2008-09-29

The understanding at the molecular level of the interactions between innate and adaptive arms of the immune system is currently a hot topic particularly to those interested in immunology especially susceptibility to infectious diseases This book provides a survey of topics in the area of innate and adaptive immunity which have been researched within the MRC Immunochemistry Unit at Oxford University over a period of forty years The topics include antibody structure for which the first Director of the Immunochemistry Unit Professor RR Porter was awarded a Nobel prize in 1972 the characterization of membrane proteins on lymphoid cells leading to the concept of these molecules belonging to an immunoglobulin super family the proteins of the human serum complement system one of the body's major defences against microbial infection the human cell surface integrins and the hyaluronan binding proteins which are involved in regulation of inflammation at cell surfaces and within the extracellular matrix the family of collectin molecules containing distinct globular carbohydrate binding domains linked to collagen like regions which play important roles in innate immunity in the lungs and bloodstream by immediate recognition and clearance of microbial pathogens Each chapter in the book gives a brief historical background to a topic and then provides a survey of recent advances in the field and are written by internationally

recognised renowned experts The theme running through the chapters is that of protein structure function relationships including amongst others descriptions of quaternary structures of large oligomeric proteins of Factor H and C1q binding to specific ligands and of the chemistry of the mechanism of catalysis of covalent binding of activated C3 and C4 proteins to nucleophilic groups on microbial surfaces In several chapters excellent descriptions are given with respect to how the immune system can be recruited to combat microbial infection via proteins of both the innate and adaptive immune systems The book also includes notable chapters which are excellent examples of the importance of how the isolation characterisation protein engineering and crystallisation has resulted in a full understanding of complex protein protein interactions involved in the recognition and triggering events of important sections of the immune system Structure and Function of the C1 Complex G rard J Arlaud Chemical Engineering of Therapeutic Antibodies George T Stevenson Leukocyte surface proteins purification and characterisation A Neil Barclay Cell Surface Integrins Suet Mien Tan and S K Alex Law This book is aimed primarily at established senior research scientists postdoctoral research scientists and PhD students who have an interest in proteins of the immune system However the wide range of immunity system topics while staying broadly within innate adaptive immunity will also appeal to a wider audience **The Miracle of Immunity** William Lorne Donnellan,2003

Chronicles discoveries made since ancient times in learning about disease and how the body s immune system fights and conquers it **Immunogenetics** Anton W. Langerak,2022-06-28 This open access book explores techniques for working in the field of immunogenetics i e fundamental and translational research into the adaptive immune receptor repertoire Many chapters are dedicated to lab protocols bioinformatics and immunoinformatics analysis of high resolution immunome analysis exemplified by numerous applications Additionally the newest technological variations on these protocols are discussed including non amplicon single cell and cell free strategies Written for the highly successful Methods in Molecular Biology series chapters include introductions to their respective topics lists of the necessary materials and reagents step by step readily reproducible laboratory protocols and tips on troubleshooting and avoiding known pitfalls Authoritative and practical Immunogenetics Methods and Protocols covers a broad spectrum of methodologies for applications in research and clinical diagnostics to illustrate the impact that immunogenetics has achieved and will further expand in all fields of medicine from infection and auto immunity to vaccination to lymphoid malignancy and tumor immunity *Natural Immunity* Lorand Bertok,Donna Chow,2005-05-31 Natural Immunity is a broadly based account of the activities of the evolutionarily conserved molecules cells and processes of the natural immune system This encompasses the early host protection against microbes bacteria and viruses and tumours prior to the generation of the adaptive immune response diverse major current pathologies including inflammatory and autoimmune diseases and key roles in essential physiological processes such as reproduction and wound healing The first comprehensive book on natural immunity Reviews new topics effects of behaviour aging and exercise and diet on natural immunity Highlights the physiological role of natural immunity Focuses on the relationship of the

neuroendocrine system with natural immunity Brings together the diversity and complexity of natural immune system activity

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