

NERVOUS SYSTEM APP

MODULE 5

NERVOUS SYSTEM

→ **CENTRAL**
- BRAIN
- SPINAL CORD

→ **PERIPHERAL**
- NERVES
- GANGLIA

FUNCTIONAL ORGANIZATION:

SENSORY INPUT

SOMATIC SENSORY
VISCERAL SENSORY

MOTOR OUTPUT

SOMATIC MOTOR
AUTONOMIC MOTOR

SYMPATHIC NS

V.S. PARASYMPATHETIC

QUESTIONS:

1. WHICH DIVISION OF YOUR NERVOUS SYSTEM CAN YOU CONTROL?
- WHAT IS THAT DIVISION CALLED?
2. WHICH DIVISION OF YOUR NS IS NOT UNDER YOUR CONTROL? (examples)
- WHAT IS THAT DIVISION CALLED?
3. WHAT IS THE DIFFERENCE BETWEEN THE SYMPATHETIC & PARASYMPATHETIC NS?
4. WHAT ARE THE PARTS OF A NEURON?
5. WHAT IS AN ACTION POTENTIAL?
- WHERE ARE THEY GENERATED?
- WHERE DOES ACTION POTENTIAL GO FROM THERE?
6. WHY IS MYELIN IMPORTANT TO THE FUNCTIONING OF NEURONS?
(BRIEFLY, HOW DOES IT INVOLVE MYELIN?)
7. DESCRIBE THE ROLE OF EACH OF THE THREE PARTS OF THE NEURAL FEEDBACK LOOP.

CNS

PNS

BRAIN - "most complicated, mysterious, sensitive organs on Earth"

SPINAL CORD

NERVES
GANGLIA

→ (to the side) → anything with "nerves"
→ ALL nervous tissue outside of CNS



Stuff we are "AWARE" of

→ PROPRICEPTION
→ SENSATION

→ going "IN" the CNS

"LEAVING" CNS

→ going to EFFECTORS

"BODY"

SOMATIC MOTOR

- SKELETAL MUSCLE
- VOLUNTARILY MOVABLE

AUTONOMIC MOTOR

→ INAWARE OF (don't have to think about)
- HEART RATE, BREATHING
- CARDIAC MUSCLE, smooth muscle, glands



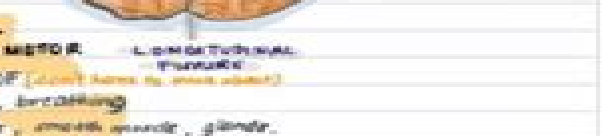
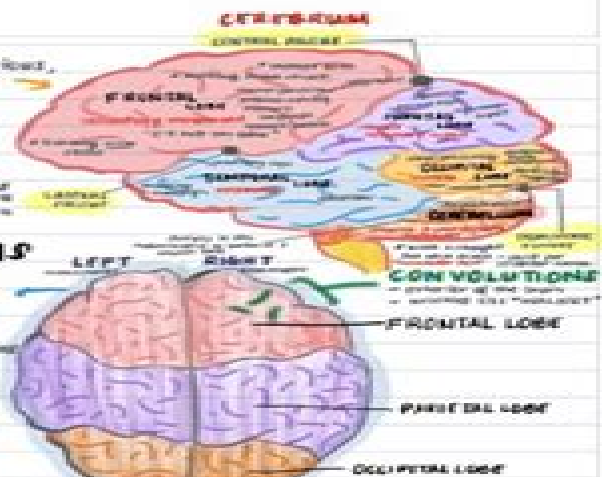
① ACTION POTENTIALS ARE NERVE SIGNALS

- GENERATED IN THE AXON HILLOCK, FROM THERE,
- THEY TRAVEL DOWN THE AXON (UP & DOWN BECAUSE OF MYELIN SHEATH), TOWARDS THE SYNAPTIC END BULB.

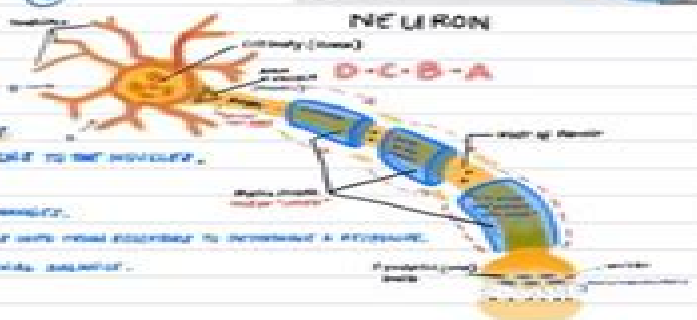
② MYELIN IS AN INSULATING LAYER THAT SURROUNDS THE AXON. IT IS VITAL FOR THE CONDUCTION OF ACTION POTENTIALS (ELECTRICAL IMPULSES) ALONG AXONAL TREES. DUE TO THE EFFICIENT TRANSMISSION OF ACTION POTENTIALS IN MYELIN, FOR THE FUNCTIONALITY OF NERVOUS. IT FACILITATES SMOOTH COMMUNICATION OF NERVE IMPULSES FROM THE CNS TO THE MUSCLES.

③ NEURAL FEEDBACK LOOP: VITAL FOR BODY'S HOMEOSTASIS!

- RECEPTOR: DETECTS CHANGE IN STIMULUS/ENVIRONMENTAL CHANGES.
- CONTROL CENTER (AUTONOMIC CENTER): RECEIVES INFORMATION FROM RECEPTOR TO DETERMINE A RESPONSE.
- EFFECTOR: EXECUTES A RESPONSE TO RESTORE BODY'S HOMEOSTASIS.
- (E.G. SHIVERING (WARMING UP BODY) TEMPERATURE REGULATOR)



ANSWERS:
① SOMATIC NERVOUS SYSTEM
② AUTONOMIC NERVOUS SYSTEM



SUMMARY:

THE NERVOUS SYSTEM IS A COMPLEX NETWORK OF NEURONS THAT FACILITATE COMMUNICATION AND COORDINATION WITHIN THE BODY. ESPECIALLY, DIVIDING DIFFERENT PARTS OF THE BODY INTO SENSORY AND MOTOR FUNCTIONS. IT PLAYS A FUNDAMENTAL ROLE IN CONTROLLING BODY FUNCTIONS, RESPONDING TO STIMULI, AND MAINTAINING HOMEOSTASIS.

Anatomy Of The Brain Lecture Notes

Isaac Bankman



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Brain Mapping: The Methods Arthur W. Toga,John C. Mazziotta,2002-09-25 The number of scientists and laboratories involved with brain mapping is increasing exponentially and the second edition of this comprehensive reference has also grown much larger than the first published in 1996 including for example five chapters on structural and functional MRI where the fi

The Oxford Handbook of the History of Psychology: Global Perspectives David B. Baker,2012 The science and practice of psychology has evolved around the world on different trajectories and timelines yet with a convergence on the recognition of the need for a human science that can confront the challenges facing the world today Few would argue that the standard narrative of the history of psychology has emphasized European and American traditions over others but in today s global culture there is a greater need in psychology for international understanding This volume describes the historical development of psychology in countries throughout the world Contributors provide narratives that examine the political and socioeconomic forces that have shaped their nations psychologies Each unique story adds another element to our understanding of the history of psychology The chapters in this volume remind us that there are unique contexts and circumstances that influence the ways in which the science and practice of psychology are assimilated into our daily lives Making these contexts and circumstances explicit through historical research and writing provides some promise of greater international insight as well as a better understanding of the human condition

Anatomy of the Cortex Valentino Braitenberg,Almut Schüz,2013-11-09 In this essay we propose a view of the cerebral cortex from an unusual angle determined by our search for the most general statements on the relation between cortical structure and function Our results may be at variance with the ideas of those physiologists who have specialized subsystems of the cortex in mind but are not in contrast with them as we hope to show Our view is akin to one presented by Moshe Abeles in his monograph Local Cortical Circuits 1982 It is related to the theory developed by Gunther Palm for many years our partner in Neural Assemblies 1982 It owes much to the ideas which inspire the work of George Gerstein beginning with the classic Gerstein 1962 and especially to the insights gained by our colleague Ad Aertsen and his group in TUbingen Our ideas on the cortex find some resonance in a recent trend in Artificial Intelligence Kohonen 1977 Hopfield 1982 Rumelhart et al 1986 and indeed the diagram Braitenberg 1974a representing the dominant idea of that trend the associative matrix with feedback has served as an emblem for the editorial enterprise Studies of Brain Function since its inception in 1977 Since our earlier reports Braitenberg 1974a b 1977 1978a b 1986 Schilz 1976 1978 1981a b 1986 enough

new experimental evidence has accumulated in our own laboratory summarized by Schilz 1989 and elsewhere to justify a more extended and more confident presentation

Statistical Parametric Mapping: The Analysis of Functional Brain Images William D. Penny, Karl J. Friston, John T. Ashburner, Stefan J. Kiebel, Thomas E. Nichols, 2011-04-28 In an age where the amount of data collected from brain imaging is increasing constantly it is of critical importance to analyse those data within an accepted framework to ensure proper integration and comparison of the information collected This book describes the ideas and procedures that underlie the analysis of signals produced by the brain The aim is to understand how the brain works in terms of its functional architecture and dynamics This book provides the background and methodology for the analysis of all types of brain imaging data from functional magnetic resonance imaging to magnetoencephalography Critically Statistical Parametric Mapping provides a widely accepted conceptual framework which allows treatment of all these different modalities This rests on an understanding of the brain's functional anatomy and the way that measured signals are caused experimentally The book takes the reader from the basic concepts underlying the analysis of neuroimaging data to cutting edge approaches that would be difficult to find in any other source Critically the material is presented in an incremental way so that the reader can understand the precedents for each new development This book will be particularly useful to neuroscientists engaged in any form of brain mapping who have to contend with the real world problems of data analysis and understanding the techniques they are using It is primarily a scientific treatment and a didactic introduction to the analysis of brain imaging data It can be used as both a textbook for students and scientists starting to use the techniques as well as a reference for practicing neuroscientists The book also serves as a companion to the software packages that have been developed for brain imaging data analysis An essential reference and companion for users of the SPM software Provides a complete description of the concepts and procedures entailed by the analysis of brain images Offers full didactic treatment of the basic mathematics behind the analysis of brain imaging data Stands as a compendium of all the advances in neuroimaging data analysis over the past decade Adopts an easy to understand and incremental approach that takes the reader from basic statistics to state of the art approaches such as Variational Bayes Structured treatment of data analysis issues that links different modalities and models Includes a series of appendices and tutorial style chapters that makes even the most sophisticated approaches accessible

Brain, Mind and Medicine: Harry Whitaker, C.U.M. Smith, Stanley Finger, 2007-10-27 No books have been published on the practice of neuroscience in the eighteenth century a time of transition and discovery in science and medicine This volume explores neuroscience and reviews developments in anatomy physiology and medicine in the era some call the Age of Reason and others the Enlightenment Topics include how neuroscience adopted electricity as the nerve force how disorders such as aphasia and hysteria were treated Mesmerism and more

British Romanticism and the Science of the Mind Alan Richardson, 2001-07-26 In this provocative and original study Alan Richardson examines an entire range of intellectual cultural and ideological points of contact between British Romantic

literary writing and the pioneering brain science of the time Richardson breaks new ground in two fields revealing a significant and undervalued facet of British Romanticism while demonstrating the Romantic character of early neuroscience Crucial notions like the active mind organicism the unconscious the fragmented subject instinct and intuition arising simultaneously within the literature and psychology of the era take on unsuspected valences that transform conventional accounts of Romantic cultural history Neglected issues like the corporeality of mind the role of non linguistic communication and the peculiarly Romantic understanding of cultural universals are reopened in discussions that bring new light to bear on long standing critical puzzles from Coleridge s suppression of Kubla Khan to Wordsworth s perplexing theory of poetic language to Austen s interest in head injury

Handbook of Medical Image Processing and Analysis Isaac Bankman,2008-12-24 The Handbook of Medical Image Processing and Analysis is a comprehensive compilation of concepts and techniques used for processing and analyzing medical images after they have been generated or digitized The Handbook is organized into six sections that relate to the main functions enhancement segmentation quantification registration visualization and compression storage and communication The second edition is extensively revised and updated throughout reflecting new technology and research and includes new chapters on higher order statistics for tissue segmentation tumor growth modeling in oncological image analysis analysis of cell nuclear features in fluorescence microscopy images imaging and communication in medical and public health informatics and dynamic mammogram retrieval from web based image libraries For those looking to explore advanced concepts and access essential information this second edition of Handbook of Medical Image Processing and Analysis is an invaluable resource It remains the most complete single volume reference for biomedical engineers researchers professionals and those working in medical imaging and medical image processing Dr Isaac N Bankman is the supervisor of a group that specializes on imaging laser and sensor systems modeling algorithms and testing at the Johns Hopkins University Applied Physics Laboratory He received his BSc degree in Electrical Engineering from Bogazici University Turkey in 1977 the MSc degree in Electronics from University of Wales Britain in 1979 and a PhD in Biomedical Engineering from the Israel Institute of Technology Israel in 1985 He is a member of SPIE Includes contributions from internationally renowned authors from leading institutions NEW 35 of 56 chapters have been revised and updated Additionally five new chapters have been added on important topics including Nonlinear 3D Boundary Detection Adaptive Algorithms for Cancer Cytological Diagnosis Dynamic Mammogram Retrieval from Web Based Image Libraries Imaging and Communication in Health Informatics and Tumor Growth Modeling in Oncological Image Analysis Provides a complete collection of algorithms in computer processing of medical images Contains over 60 pages of stunning four color images

Computational Anatomy Based on Whole Body Imaging Hidefumi Kobatake,Yoshitaka Masutani,2017-06-14 This book deals with computational anatomy an emerging discipline recognized in medical science as a derivative of conventional anatomy It is also a completely new research area on the boundaries of several sciences and technologies such as medical

imaging computer vision and applied mathematics Computational Anatomy Based on Whole Body Imaging highlights the underlying principles basic theories and fundamental techniques in computational anatomy which are derived from conventional anatomy medical imaging computer vision and applied mathematics in addition to various examples of applications in clinical data The book will cover topics on the basics and applications of the new discipline Drawing from areas in multidisciplinary fields it provides comprehensive integrated coverage of innovative approaches to computational anatomy As well Computational Anatomy Based on Whole Body Imaging serves as a valuable resource for researchers including graduate students in the field and a connection with the innovative approaches that are discussed Each chapter has been supplemented with concrete examples of images and illustrations to facilitate understanding even for readers unfamiliar with computational anatomy

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