

# 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. PARASYMPATHIC**

- QUESTIONS:**
- WHICH DIVISION OF YOUR NERVOUS SYSTEM CAN YOU CONTROL?
    - WHAT IS THIS DIVISION CALLED?
  - WHICH DIVISION OF YOUR NS IS NOT UNDER YOUR CONTROL? (examples)
    - WHAT IS THIS DIVISION CALLED?
  - WHAT IS THE DIFFERENCE BETWEEN THE SYMPATHETIC & PARASYMPATHETIC NS?
  - WHAT ARE THE PARTS OF A NEURON?
  - WHAT IS AN ACTION POTENTIAL?
    - WHERE ARE THEY GENERATED?
    - WHERE DOES ACTION POTENTIAL GO FROM THERE?
  - WHY IS MYELIN IMPORTANT TO THE FUNCTION OF NEURONS? (BRIEFLY MENTION THE INVOLVED MOLECULE)
  - DESCRIBE THE ROLES OF EACH OF THE THREE PARTS OF THE NEURAL FEEDBACK LOOP.

**SUMMARY:**

THE NERVOUS SYSTEM IS A COMPLEX NETWORK OF NEURONS THAT EXPRESS COORDINATION AND COORDINATION WITHIN THE BODY. ESPECIALLY, INTEGRATING DIFFERENT PARTS OF THE BODY INTO ONE COHERENT AND FUNCTIONAL WHOLE. IT PLAYS A FUNDAMENTAL ROLE IN CONTROLLING BODY FUNCTIONS, RESPONDING TO STIMULI, AND MAINTAINING HOMEOSTASIS.

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

**PNS** - SPINAL CORD

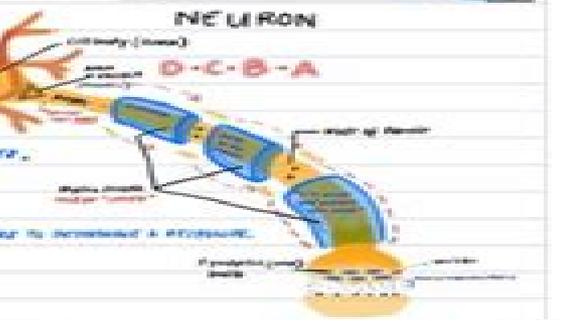
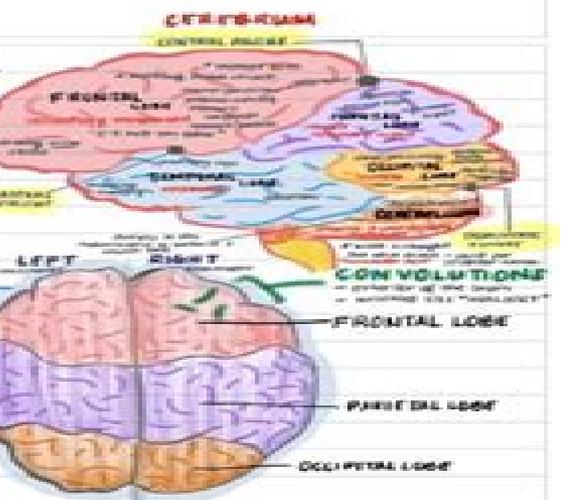
**NERVES GANGLIA** - meet up & all messages travel through before they get to the target organs, they travel from the CNS to the rest of the body

→ (to the side) → anything with nerves

→ ALL nervous tissue outside of CNS



- ACTION POTENTIALS ARE NERVE SIGNALS**
  - GENERATED IN THE AXON HILLOCK, FROM THERE,
  - THEY TRAVEL DOWN THE AXON (AND UP BACK IF NEEDING THEM), TOWARDS THE SYNAPTIC END BULB.
- MYELIN IS AN INSULATING LAYER THAT SERVES AS PROTECTION FOR THE AXON, IT IS VITAL FOR THE GENERATION OF ACTION POTENTIALS (ELECTRICAL IMPULSES) ALONG AXONAL TREES. SWIFT AND EFFICIENT TRANSMISSION OF ACTION POTENTIALS IS NECESSARY FOR THE FUNCTIONALITY OF MUSCLES. IT FACILITATES SMOOTH COMMUNICATION OF NERVE IMPULSES FROM THE CNS TO THE MUSCLES.**
- NEURAL FEEDBACK LOOP: VITAL FOR BODY'S HOMEOSTASIS!**
  - **RECEPTOR:** detects change in stimulus/environmental changes.
  - **CONTROL CENTER (AUTONOMIC NS):** constantly in contact with neural receptors to determine a response.
  - **EFFECTOR:** produces a response to maintain body's internal balance.
    - (i.e. breathing (working as body's temperature regulator))



*Jo*

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*Medical Image Computing and Computer Assisted Intervention - MICCAI 2024* Marius George Linguraru, Qi Dou, Aasa Feragen, Stamatia Giannarou, Ben Glocker, Karim Lekadir, Julia A. Schnabel, 2024-10-03 The 12 volume set LNCS 15001 15012 constitutes the proceedings of the 27th International Conference on Medical Image Computing and Computer Assisted Intervention MICCAI 2024 which took place in Marrakesh Morocco during October 6-10 2024 MICCAI accepted 857 full papers from 2781 submissions They focus on neuroimaging image registration computational pathology computer aided diagnosis treatment response and outcome prediction image guided intervention visualization surgical planning and surgical data science image reconstruction image segmentation machine learning etc *Lecture Notes on Neurology* Lionel Ginsberg, 1999 **Lecture Notes** Lionel Ginsberg, 2005 [Stroke and Stroke Related Disorders in the Elderly](#) Kujan Nagarathnam, Nages Nagarathnam, 2013-04-24 The incidence of stroke increases with age and with the increase in the life expectancy the older people will contribute to a large portion of those afflicted with stroke Stroke and Stroke related disorders in the Elderly begins with a historical review of stroke and its management followed by an overview of the anatomy and functions of the brain Detailed knowledge of which is mandatory and essential for the proper understanding of what happens to a patient with a stroke and for interpretation of x-ray images of the brain It then considers the pathophysiology as our knowledge of neuronal death continues to evolve Clinical manifestations the evaluation and management are then dealt with in full Stroke related disorders such as transient ischaemic attack and carotid artery disease are included The book also provides essential information on poststroke neuropsychiatric and neurobehavioural disorders and poststroke complications such as cognitive impairment falls seizures urinary incontinence and central stroke pain that may hinder or delay stroke recovery Many sections follow a common pattern with headings and subheadings The text offers the primary care physician junior hospital doctors medical undergraduates and specialist nurses a systematic approach to stroke in the elderly The intent also is to provide extreme information where interest demands in those areas extending the aims and scope of the book to pathology and pharmacology and beyond **KEY FEATURES** Contributes to the understanding of the pathophysiology of stroke Presents an insight into the clinical manifestations and their evaluation and management Describes the neuropsychiatric and neurobehavioural consequences of stroke **Stereology for Statisticians** Adrian Baddeley, Eva B. Vedel Jensen, 2004-11-29 Setting out the principles of stereology from a statistical viewpoint this book focuses on both basic theory and practical implications The authors discuss ways to effectively communicate statistical issues to clients draw attention to common methodological errors and provide references to essential literature The first full text on design based [The Software Encyclopedia 2001](#), 2001 **Visual and Non-Visual Effects of Light** Agnieszka Wolska, Dariusz Sawicki, Małgorzata Tafil-Klawe, 2020-07-29 The introduction of artificial lighting extends the time of wakefulness after dark and enables work at night thus disturbing the human circadian rhythm The understanding of the physiological mechanisms of visual and non

visual systems may be important for the development and use of proper light infrastructure and light interventions for different workplace settings especially for shift work conditions

*Visual and Non Visual Effects of Light Working Environment and Well Being* presents the impact of lighting in the working environment on human health well being and visual performance The physiological explanation of the visual and non visual effects of light on humans which discusses the biological bases of image and non image forming vision at the cellular level may be of particular interest to any professional in the field of medicine physiology and biology It is one of the intentions of this book to put forward some recommendations and examples of lighting design which take into account both the visual and non visual effects of light on humans These may be of particular interest to any professional in the field of lighting occupational safety and health and interior design What effects on health can a light overdose or light deficiency have What is bad light The authors of the monograph provide answers to these questions Just as for a physicist the dual nature of light comprises an electromagnetic wave and a photon the duality of light for a physician comprises visual and non visual effects Prof Jacek Przybylski Medical University of Warsaw This is a unique publication in the field of lighting technology The authors have skillfully combined both the technical and biomedical aspects involved which is unprecedented in the literature available As a result an important study has been created for many professional groups with a significant impact on the assessment of risks associated with LED sources Prof Andrzej Zaj c Military University of Technology Warsaw

*The Best 167 Medical Schools, 2016 Edition* Princeton Review, 2015-10 The Princeton Review s *The Best 167 Medical Schools* gives you complete and up to date info about the best allopathic osteopathic and naturopathic schools in the U S Canada and Puerto Rico

**Standard Colorimetry** Claudio Oleari, 2015-11-30 Colour is a sensation and as such it is a subjective and incommunicable quantity Colour measurement is possible because we can create a correspondence between colour sensations and the light radiations that stimulate them This correspondence concerns the physics of light radiation the physiology of the visual process and the psychology of vision Historically in parallel to standard colorimetry systems for colour ordering have been developed that allow colour specifications in a very practical and concrete way based on the direct vision of material colour samples arranged in colour atlases Colour ordering systems are sources of knowledge of colour vision which integrate standard colorimetry

**Standard Colorimetry Definitions Algorithms and Software** Describes physiology and psychophysics useful to understand colorimetry Considers all the photometric and colorimetric systems standardized by CIE XYZ CIELAB CIELUV LMS Presents colorimetric instrumentation in order to guide the reader toward colorimetric practice Discusses colorimetric computation to understand the meaning of numerical colour specification Considers colorimetry in colour syntheses and in imaging colour reproduction Includes ready to use freely available software Colorimetric eXercise which has multiple toolboxes dedicated to displaying CIE systems atlases any colour and its whole numerical specification colour vision phenomena and tests

**Standard Colorimetry Definitions Algorithms and Software** is an accessible and valuable resource for students lecturers researchers

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*Lecture Notes* Ginsberg,2014-02-21     **Lecture Notes on Neurology** Ivan Thomas Draper,1983     **Mental Game** Karl Morris,2012-03     *Using Technology in Dementia Care* Arlene Astell,Sarah Smith,Philip Joddrell,2019-06-21 Many new pieces of technology can be beneficial to individuals living with dementia including both hardware and software This straightforward guide summarises the current research on this growing topic and gives practical advice on how available technology can be used to improve the everyday lives of people with dementia Looking at a range of available products such as off the shelf computers and smartphones to dementia specific applications and programs it also addresses some common obstacles and barriers faced when introducing technology in dementia care The past twenty years have seen an array of technologies developed to improve the day to day lives of people with dementia this guide shows how they can be effectively used     *Online Guide to Medical Research* Michelle Kienholz,1999 Discover how to use the Internet to locate primary sources for medical information This focused guide zeros in on the most valuable sites and techniques for staying up to date on medical issues grasping new technologies and enhancing medical practice Companion CD software Data zip 1MB Demos zip 2 1MB Resource zip 1 4MB     **Lecture Notes on Neurology** Ivan T. Draper,1974-01-01     **Lecture Notes in Neurology** Garth M. Bray,1971     *Lecture Notes on Dermatology* Bethel Eric Robert Solomons,Bethel Solomons,1965     *Neurology* College of Medical Evangelists (Los Angeles, Calif.). Department of Microscopic Anatomy,1943     *Inside UVA* ,1996     **Lecture Notes in Neurology** Bertha Chioma Ekeh,2018-05-03 Neurology is a medical specialty that is considered difficult by many generations of medical students and doctors all over the world This textbook is an attempt to present Neurological disorders in a simplified manner There are two main sections The first part is on Evaluation It details the step wise manner required in the diagnosis neurological disorders The second part is on Neurological disorders It discusses the common neurological disorders This is one more important tool in the armamentarium of medical students and young medical doctors in an easier navigation of the tough Neurology specialty

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