

## Leica S6d Manual

Cerebellar Cortex  
Pattern Recognition  
The Gentleman's Magazine (London, England)  
The Biology of Reaction Wood  
Advances in Computational Methods in Manufacturing  
Somatic Embryogenesis: Fundamental Aspects and Applications  
Laboratory Methods for Work with Plant and Soil Nematodes  
A general index to the first fifty-six volumes of the Gentleman's Magazine  
Ecology of Cyanobacteria II  
Flowering Plants  
Comparative Anatomy and Histology  
Botrytis - the Fungus, the Pathogen and its Management in Agricultural Systems  
MACPF/CDC Proteins - Agents of Defence, Attack and Invasion  
Materials Science and Industrial Applications  
Craniofacial Development  
Integrated Management and Biocontrol of Vegetable and Grain Crops  
Nematodes  
Technisches Zentralblatt. Abteilung Maschinenwesen  
Epigenetics: Development and Disease  
The Evolution of Hominin Diets  
Brain Cholinergic Systems  
Hematopoietic Stem Cell Development  
Biodiversity, biogeography and nature conservation in Wallacea and New Guinea  
The Pigmentary Effector System  
The House Mouse  
Popular Photography  
Plant Germline Development  
Handbook of Cell Signaling  
The Electric Life of Michael Faraday  
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Handbook of Nutrition, Diet, and Epigenetics  
Arabidopsis  
Snow Sports Trauma and Safety  
Prokaryotic Antimicrobial Peptides

### Cerebellar Cortex

This detailed volume explores common and numerous specialized methods to study various aspects of plant germline development and targeted manipulation, including imaging and hybridization techniques to study cell-type specification, cell lineage, signaling and hormones, cell cycle, and the cytoskeleton. In addition, cell-type specific methods for targeted ablation or isolation are provided, protocols to apply “omics” technologies and to perform bioinformatics data analysis, as well as methods relevant for aspects of biotechnology or plant breeding. This includes protocols that are relevant for the targeted manipulation of pathways, for crop plant transformation, or for conditional induction of phenotypes. 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, Plant Germline Development: Methods and Protocols serves as a comprehensive guide not only to studying basic questions related to different aspects of plant reproductive development but also for state of the art methods, in addition to being a source of inspiration for new approaches and research questions in many laboratories.

### Pattern Recognition

### The Gentleman's Magazine (London, England)

## **The Biology of Reaction Wood**

The book is a fundamental reference source on reaction wood for wood scientists and technologists, plant biologists, silviculturists, forest ecologists, and anyone involved in the growing of trees and the processing of wood. It brings together our current understanding of all aspects of reaction wood, and is the first book to discuss both compression wood and tension wood. Trees produce reaction wood to maintain the vertical orientation of their stems and the optimum angle of each branch. They achieve this by laying down fibre cell walls in which differences in physical and chemical structure from those of normal fibres are expressed as differential stresses across the stem or branch. This process, while of obvious value for the survival of the tree, causes serious problems for the utilisation of timber. Timber derived from trees containing significant amounts of reaction wood is subject to dimensional instability on drying, causing twisting, bending and splitting. It is also difficult to work as timber, and for the pulp and paper industry the cost of removing the increased amount of lignin in compression wood is substantial. This has both practical and economic consequences for industry. Understanding the factors controlling reaction wood formation and its effect on wood structure is therefore fundamental to our understanding of the adaptation of trees to their environment and to the sustainable use of wood. The topics covered include:

- Morphology, anatomy and ultrastructure of reaction wood
- Cell-wall polymers in reaction wood and their biosynthesis
- Changes in tree proteomes during reaction wood formation
- The biomechanical action and biological functions of reaction wood
- Physical and mechanical properties of reaction wood from the scale of cell walls to planks
- The detection and characterisation of compression wood
- Effects of reaction wood on the performance of wood and wood-based products
- Commercial implications of reaction wood and the influence of forest management on its formation

## **Advances in Computational Methods in Manufacturing**

### **Somatic Embryogenesis: Fundamental Aspects and Applications**

International Conference on Materials Science and Industrial Applications (MSIA 2019) Selected, peer reviewed papers from the International Conference on Materials Science and Industrial Applications (MSIA 2019), January 12-13, 2019, Wuhan, China

## **Laboratory Methods for Work with Plant and Soil Nematodes**

### **A general index to the first fifty-six volumes of the Gentleman's Magazine**

## **Ecology of Cyanobacteria II**

This book is open access under a CC BY-NC 2.5 license. This book covers the latest in snow sport epidemiology, snow sport injuries and treatment, and biomechanical/mechanical engineering related to snow sports injuries (mechanisms of injury, injury prevention by equipment design, injury prevention by design of resort features, and more). It brings together a collection of papers from the International Congress on Ski Trauma and Safety (the biennial meeting of the International Society for Skiing Safety) and presents the latest research on the effectiveness of winter sports equipment, the behavior of winter sports participants, and the epidemiology and biomechanics of winter sports injuries. This is an ideal book for researchers and professionals working in the field of sports medicine and safety. This book also: Covers the latest body of literature dealing with safety in winter sports as well as the prevention and treatment of injuries sustained by participants in these activities Broadens readers' understanding of snow sport injury prevention research Illustrates ways safety standards for snow sports can be improved based on evidence-based research.

## **Flowering Plants**

Revision of Technical Bulletin No. 2, 5th ed., 1970

## **Comparative Anatomy and Histology**

The book will provide an overview of the advancement of fundamental knowledge and applications of antimicrobial peptides in biomedical, agricultural, veterinary, food, and cosmetic products. Antimicrobial peptides stand as potentially great alternatives to current antibiotics, and most research in this newly-created area has been published in journals and other periodicals. It is the editors' opinion that it is timely to sum up the most important achievements in the field and provide the scientific community in a reference book. The goals of this project include illustrating the achievements made so far, debating the state of the art, and drawing new perspectives.

## **Botrytis - the Fungus, the Pathogen and its Management in Agricultural Systems**

This book collects articles on the biology of hematopoietic stem cells during embryonic development, reporting on fly, fish, avian and mammalian models. The text invites a comparative overview of hematopoietic stem cell generation in the different classes, emphasizing conserved trends in development. The book reviews current knowledge on human hematopoietic development and discusses recent breakthroughs of relevance to both researchers and clinicians.

## **MACPF/CDC Proteins - Agents of Defence, Attack and Invasion**

The proceedings of a symposium on Trichoderma cellulases held at the Technical University of Vienna September 14-16, 1989, attended by 100 scientists representing both academic institutions and industrial research laboratories.

## **Materials Science and Industrial Applications**

Zika virus (ZIKV) is a mosquito-borne member of the Flaviviridae family that historically has been associated with mild febrile illness. However, the recent outbreaks in Brazil in 2015 and its rapid spread throughout South and Central America and the Caribbean, together with its association with severe neurological disorders—including fetal microcephaly and Guillain-Barré syndrome in adults—have changed the historic perspective of ZIKV. Currently, ZIKV is considered an important public health concern that has the potential to affect millions of people worldwide. The significance of ZIKV in human health and the lack of approved vaccines and/or antiviral drugs to combat ZIKV infection have triggered a global effort to develop effective countermeasures to prevent and/or treat ZIKV infection. In this Special Issue of *Viruses*, we have assembled a collection of 32 research and review articles that cover the more recent advances on ZIKV molecular biology, replication and transmission, virus-host interactions, pathogenesis, epidemiology, vaccine development, antivirals, and viral diagnosis.

## **Craniofacial Development**

This volume presents a selection of papers from the 2nd International Conference on Computational Methods in Manufacturing (ICMM 2019). The papers cover the recent advances in computational methods for simulating various manufacturing processes like machining, laser welding, laser bending, strip rolling, surface characterization and measurement. Articles in this volume discuss both the development of new methods and the application and efficacy of existing computational methods in manufacturing sector. This volume will be of interest to researchers in both industry and academia working on computational methods in manufacturing.

## **Integrated Management and Biocontrol of Vegetable and Grain Crops Nematodes**

The fungal genus *Botrytis* is the focus of intensive scientific research worldwide. The complex interactions between this pathogen and the plants it infects and the economic importance of the diseases caused by *Botrytis* (principally grey mould) on more than 1400 species of cultivated plants pre- and post-harvest, render this pathogen of particular interest to farmers, advisers, students and researchers in many fields worldwide. This 20-chapter book is a comprehensive treatise covering the rapidly developing science of *Botrytis* and reflecting the major developments in studies of this fungus. It will serve as a source of general information for specialists in agriculture and horticulture, and also for students and scientists interested in the biology of this fascinating, multifaceted phytopathogenic fungal species.

## **Technisches Zentralblatt. Abteilung Maschinenwesen**

## **Epigenetics: Development and Disease**

The study of animal cognition has been largely confined to birds and mammals; a historical bias which has led to the belief that learning plays little or no part in the development of behaviour in fishes and reptiles. Research in recent decades has

begun to redress this misconception and it is now recognised that fishes exhibit a rich array of sophisticated behaviour with impressive learning capabilities entirely comparable with those of mammals and other terrestrial animals. In this fascinating book an international team of experts have been brought together to explore all major areas of fish learning, including: foraging skills Predator recognition Social organisation and learning Welfare and pain Fish Cognition and Behavior is an important contribution to all fish biologists and ethologists and contains much information of commercial importance for fisheries managers and aquaculture personnel. Libraries in universities and research establishments will find it an important addition to their shelves.

## **The Evolution of Hominin Diets**

### **Brain Cholinergic Systems**

In this book, brain cholinergic systems are examined by leading authorities drawn from the fields of morphology, immunochemistry, electrophysiology, behaviour, and the study of cognitive disorders. The book covers major aspects of the organization and connectivity of cholinergic systems at the light and electron-microscopic levels, intrinsic electrophysiological properties, and ionic conductances of central cholinergic neurons. It also discusses the effects of brainstem and basal forebrain cholinergic systems upon thalamic and cortical neurons, plasticity processes in the thalamus and cerebral cortex; and studies on Alzheimer's disease.

### **Hematopoietic Stem Cell Development**

This book discusses basic and applied aspects of somatic embryogenesis, one of the most powerful tools in plant biotechnology. It is divided into three parts; Part I includes topics such as the history of this research field, how differentiated plant cells can (re)acquire totipotency, molecular features, as well as the epigenetics and proteomics of somatic embryogenesis. Part II covers the somatic embryogenesis of different crops, such as Agave spp. maize, Cocos nucifera, Bixa orellana, Capsicum spp., Coffea spp., Musa spp., Pinus spp., and Arabidopsis thaliana. Various applications, like scale-up propagation and genetic engineering are discussed in detail in Part III. The book will appeal to plant scientists, plant breeders and experts working in industry.

### **Biodiversity, biogeography and nature conservation in Wallacea and New Guinea**

This volume focuses on the cell biology and physiology of skeletal muscle regeneration. This Book is a collection of classic and cutting edge protocols optimized for mice, but in most cases adaptable to rat or other mammalian models, that will allow an investigator to develop and implement a research study on skeletal muscle regeneration. Chapters address the three major areas of study: provoking regeneration by inducing damage to muscle, analyzing the progenitor cells of skeletal muscle, and quantifying overall muscle function. Subjects discussed include: inducing skeletal muscle injury by eccentric contraction;

volumetric muscle loss; single myofiber isolation and culture; satellite cell transplantation; muscle clearing for whole mount immunostaining; luciferase tracking of muscle stem cells; mitochondrial and mitophagy flux analysis; in vivo assessment of muscle contractility; force measurements on single isolated myofibers; and analysis of aerobic respiration in intact skeletal muscle tissue by microplate respirometry. Written in the highly successful Methods in Molecular Biology series format, chapters include introductions to each respective topic, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Cutting edge and practical, *Skeletal Muscle Regeneration in the Mouse: Methods and Protocols* is an essential laboratory reference for research in skeletal muscle growth, damage, repair, degeneration, and regenerative therapy in the mouse model system.

## **The Pigmentary Effector System**

*Handbook of Cell Signaling, Three-Volume Set, 2e*, is a comprehensive work covering all aspects of intracellular signal processing, including extra/intracellular membrane receptors, signal transduction, gene expression/translation, and cellular/organotypic signal responses. The second edition is an up-to-date, expanded reference with each section edited by a recognized expert in the field. Tabular and well illustrated, the Handbook will serve as an in-depth reference for this complex and evolving field. *Handbook of Cell Signaling, 2/e* will appeal to a broad, cross-disciplinary audience interested in the structure, biochemistry, molecular biology and pathology of cellular effectors. Contains over 350 chapters of comprehensive coverage on cell signaling Includes discussion on topics from ligand/receptor interactions to organ/organism responses Provides user-friendly, well-illustrated, reputable content by experts in the field

## **The House Mouse**

Cyanobacteria have existed for 3.5 billion years, yet they are still the most important photosynthetic organisms on the planet for cycling carbon and nitrogen. The ecosystems where they have key roles range from the warmer oceans to many Antarctic sites. They also include dense nuisance growths in nutrient-rich lakes and nitrogen-fixers which aid the fertility of rice-fields and many soils, especially the biological soil crusts of arid regions. Molecular biology has in recent years provided major advances in our understanding of cyanobacterial ecology. Perhaps for more than any other group of organisms, it is possible to see how the ecology, physiology, biochemistry, ultrastructure and molecular biology interact. This all helps to deal with practical problems such as the control of nuisance blooms and the use of cyanobacterial inocula to manage semi-desert soils. Large-scale culture of several organisms, especially "Spirulina" (*Arthrospira*), for health food and specialist products is increasingly being expanded for a much wider range of uses. In view of their probable contribution to past oil deposits, much attention is currently focused on their potential as a source of biofuel. Please visit <http://extras.springer.com/> to view Extra Materials belonging to this volume. This book complements the highly successful *Ecology of Cyanobacteria* and integrates the discoveries of the past twelve years with the older literature.

## Popular Photography

Gliomas, which comprise astrocytic, oligodendroglial, and ependymal lesions, are the most frequent primary intracranial tumors. This volume summarizes the enormous advances in our knowledge of gliomas that have occurred during recent years. The first part of the book focuses on the glial tumor entities, with detailed discussion of diagnosis, molecular genetics, and tumor origin. This section also contains a chapter on hereditary tumor syndromes associated with gliomas and the molecular mechanisms underlying these specific diseases. The second part is devoted to the clinical management of gliomas and provides insights into novel developments regarding neuroimaging, surgical management, radiation therapy, adjuvant therapy, experimental approaches, and the neurotoxicity of treatment. The final part of the book addresses angiogenesis and epigenetic regulation of gene expression in gliomas.

## Plant Germline Development

This year, 2008, we had a very special Annual Symposium of the Deutsche Arbeitsgemeinschaft für Mustererkennung (DAGM) in Munich, and there are several reasons for that. First of all, this year was the 30th anniversary of the symposium. This means that the first symposium was organized in 1978 and the location of this event was Munich! Just two years before, in 1976, the DAGM was founded in Munich! And Munich was also the location of two further DAGM symposia, in 1991 and in 2001. When I attended the conference in 2001, I was in negotiations for my appointment to the Chair of Human-Machine Communication at the Technische Universität München (TUM) and certainly I did not at all anticipate that I would have the pleasure and honor to host this conference just seven years later again in Munich for its 30th anniversary. But special dates are not the only reason why DAGM was somewhat different this time. This year, DAGM was organized in conjunction with Automatica, the Third International Trade Fair for Automation in Assembly, Robotics, and Vision, one of the world's leading fairs in automation and robotics. This was an ideal platform for the exchange of ideas and people between the symposium and the fair, and the conference thus took place in a somewhat unusual but extraordinary location, the International Congress Center (ICM), in the direct vicinity of the New Munich Trade Fair Center, the location of the Automatica fair. With free access to Automatica, the registrants of DAGM got the opportunity to make full use of all the synergy effects associated with this special arrangement.

## Handbook of Cell Signaling

This book focusses on evolutionary, structural and functional aspects of pore-forming proteins, bringing together prominent researchers in the fields of structural biology and cellular and biophysical techniques. The focus is on the MACPF/CDC protein super family that was originally discovered because of unexpected structural similarity between a domain present in bacterial cholesterol-dependent cytolysins (CDC) and proteins of the membrane attack complex/perforin (MACPF) family. Members of the MACPF/CDC super family are crucial for many biological processes, being efficient agents of development, defence, attack and

invasion of cells and tissues. However, their best-known role is in bacterial pathogenesis and the proper functioning of the vertebrate immune system, via formation of transmembrane pores in target cell membranes. The book contains chapters on the distribution of MACPF/CDC proteins and on aspects of their evolution and structural properties, the similarities between different super family members and functional properties of some of the best known examples. The book also contains an overview of biophysical approaches that may be used in the future to provide further insights into how these interesting proteins function.

## **The Electric Life of Michael Faraday**

One of the world's leading evolutionary biologists here reexamines the evolutionary history of flowering plants. This important book interprets the phylogeny of flowering plants in the light of modern knowledge about genetics, developmental biology, and ecology.

## **Aerosol Measurement**

The second volume of the IMPD series describes aspects related to the most important phytoparasitic nematodes, considering the integration of biological control methods with other management practices and technologies, including the use of predatory nematodes and microbial rhizosphere antagonists. A focus is given on regional issues. A review on nematode management in cotton is integrated by a chapter on management of nematodes on wheat. New technologies are also revised.

## **Critical Care Ultrasound E-Book**

Michael P. Richards and Jean-Jacques Hublin The study of hominin diets, and especially how they have (primates, modern humans), (2) faunal and plant studies, (3) evolved throughout time, has long been a core research archaeology and paleoanthropology, and (4) isotopic studies. area in archaeology and paleoanthropology, but it is also This volume therefore presents research articles by most of becoming an important research area in other fields such as these participants that are mainly based on their presentations primatology, nutrition science, and evolutionary medicine. at the symposium. As can hopefully be seen in the volume, Although this is a fundamental research topic, much of the these papers provide important reviews of the current research research continues to be undertaken by specialists and there in these areas, as well as often present new research on dietary is, with some notable exceptions (e. g. , Stanford and Bunn, evolution. 2001; Ungar and Teaford, 2002; Ungar, 2007) relatively lit- In the section on modern studies Hohmann provides a tle interaction with other researchers in other fields. This is review of the diets of non-human primates, including an unfortunate, as recently it has appeared that different lines interesting discussion of the role of food-sharing amongst of evidence are causing similar conclusions about the major these primates. Snodgrass, Leonard, and Roberston provide issues of hominid dietary evolution (i. e.

## **New Advances on Zika Virus Research**

## **Trichoderma Reesei Cellulases**

## **Skeletal Muscle Regeneration in the Mouse**

The thale cress *Arabidopsis thaliana* is increasingly popular among plant scientists: it is small, easy to grow, and makes flowers, and the sequence of its small and simple genome was recently completed. This is the most complete and authoritative laboratory manual to be published on this model organism and the first to deal with genomic and proteomic approaches to its biology.

## **Gliomas**

Incorporate a holistic approach. Visualize all or any parts of the body, tissues, organs and systems in their live, anatomically and functionally interconnected state and in the context of the whole patient's clinical circumstances. See exactly how it's done. Numerous ultrasound images and access to dozens of videos demonstrate the use of ultrasound in critical care. Rely on the guidance of more than 80 different experts from Australia, China, Middle East, Europe, USA, and Canada regarding the current and future use of CCU. Adapt the use of emergency ultrasound in specialized out-of-hospital (i.e., war zones, animals) and in-hospital (i.e., pediatric units) settings. Additionally, issues regarding CCU logistics, training, and education are analyzed for the first time.

## **Popular Photography**

This multivolume reference work addresses the fact that the well being of humankind is predicated not only on individuals receiving adequate nutrition but also on their genetic makeup. The work includes more than 100 chapters organized in the following major sections: Introduction and Overview; Epigenetics of Organs and Diseases in Relation to Diet and Nutrition; Detailed Processes in Epigenetics of Diet and Nutrition; Modulating Epigenetics with Diet and Nutrition; and Practical Techniques. While it is well known that genes may encode proteins responsible for structural and dynamic components, there is an increasing body of evidence to suggest that nutrition itself may alter the way in which genes are expressed via the process of epigenetics. This is where chemically imposed alteration in the DNA sequence occurs or where the functional expression of DNA is modulated. This may include changes in DNA methylation, non-coding RNA, chromatin, histone acetylation or methylation, and genomic imprinting. Knowledge regarding the number of dietary components that impact on epigenetic processes is increasing almost daily. Marshalling all the information on the complex relationships between diet, nutrition, and epigenetic processes is somewhat difficult due to the wide myriad of material. It is for this reason that the present work has been compiled.

## **Fish Cognition and Behavior**

Comparative Anatomy and Histology: A Mouse and Human Atlas is aimed at the

new mouse investigator as well as medical and veterinary pathologists who need to expand their knowledge base into comparative anatomy and histology. It guides the reader through normal mouse anatomy and histology using direct comparison to the human. The side by side comparison of mouse and human tissues highlight the unique biology of the mouse, which has great impact on the validation of mouse models of human disease. Print + Electronic product - E-book available on Elsevier's Expert Consult platform- through a scratch-off pin code inside the print book, customers will be able to access the full text online, perform quick searches, and download images at expertconsult.com Offers the first comprehensive source for comparing human and mouse anatomy and histology through over 600 full-color images, in one reference work Experts from both human and veterinary fields take readers through each organ system in a side-by-side comparative approach to anatomy and histology - human Netter anatomy images along with Netter-style mouse images Enables human and veterinary pathologists to examine tissue samples with greater accuracy and confidence Teaches biomedical researchers to examine the histologic changes in their mutant mice

## **Handbook of Nutrition, Diet, and Epigenetics**

Michael Faraday was one of the most gifted and intuitive experimentalists the world has ever seen. Born into poverty in 1791 and trained as a bookbinder, Faraday rose through the ranks of the scientific elite even though, at the time, science was restricted to the wealthy or well-connected. During a career that spanned more than four decades, Faraday laid the groundwork of our technological society-notably, inventing the electric generator and electric motor. He also developed theories about space, force, and light that Einstein called the "greatest alteration . . . in our conception of the structure of reality since the foundation of theoretical physics by Newton." The Electric Life of Michael Faraday dramatizes Faraday's passion for understanding the dynamics of nature. He manned the barricades against superstition and pseudoscience, and pressed for a scientifically literate populace years before science had been deemed worthy of common study. A friend of Charles Dickens and an inspiration to Thomas Edison, the deeply religious Faraday sought no financial gain from his discoveries, content to reveal God's presence through the design of nature. In The Electric Life of Michael Faraday, Alan Hirshfeld presents a portrait of an icon of science, making Faraday's most significant discoveries about electricity and magnetism readily understandable, and presenting his momentous contributions to the modern world.

## **Arabidopsis**

Aerosol Measurement: Principles, Techniques, and Applications Third Edition is the most detailed treatment available of the latest aerosol measurement methods. Drawing on the know-how of numerous expert contributors; it provides a solid grasp of measurement fundamentals and practices a wide variety of aerosol applications. This new edition is updated to address new and developing applications of aerosol measurement, including applications in environmental health, atmospheric science, climate change, air pollution, public health, nanotechnology, particle and powder technology, pharmaceutical research and development, clean room technology (integrated circuit manufacture), and nuclear waste management.

## **Snow Sports Trauma and Safety**

Epigenetics fine-tunes the life processes dictated by DNA sequences, but also kick-starts pathophysiological processes including diabetes, AIDS and cancer. This volume tracks the latest research on epigenetics, including work on new-generation therapeutics.

## **Prokaryotic Antimicrobial Peptides**

The origins of this book go back to the first electron microscopic studies of the central nervous system. The cerebellar cortex was from the first an object of close study in the electron microscope, repeating in modern cytology and neuroanatomy the role it had in the hands of RAMON y CAJAL at the end of the nineteenth century. The senior author vividly remembers a day early in 1953 when GEORGE PALADE, with whom he was then working, showed him an electron micrograph of a cerebellar glomerulus, saying "That is what the synapse should look like. " It is true that the tissue was swollen and the mitochondria were exploded, but all of the essentials of synaptic structure were visible. At that time small fragments of tissue, fixed by immersion in osmium tetroxide and embedded in methacrylate, were laboriously sectioned with glass knives without any predetermined orientation and then examined in the electron microscope. After much searching, favorably preserved areas' were studied at the cytological level in order to recognize the parts of neurons and characterize them. Such procedures, dependent upon random sections and uncontrollable selection by a highly erratic technique of preservation, precluded any systematic investigation of the organization of a particular nucleus or region of the central nervous system. It was difficult enough to distinguish neurons from the neuroglia.

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