A collection of extraordinary essays on key issues in the natural sciences

GOTTFRIED SCHATZ

A MATTER OF WONDER

WHAT BIOLOGY REVEALS ABOUT US, OUR WORLD, AND OUR DREAMS

Where do we come from? Is our destiny determined by the genes we inherit? Do we all see the same blue color when we look at the sky? In this book Gottfried (Jeff) Schatz, the world-renowned biochemist, gives lucid—albeit often surprising—answers to universal questions and takes the reader on a fascinating journey of discovery across the boundaries of scientific disciplines. With passion and a keen sense of wonder he draws on philosophy, cultural history and art to formulate his reflections on the mystery of life. The key to understanding life is to be found in its chemistry, and he proves that this is no dry endeavor and certainly not devoid of beauty. The result is a collection of eloquently and poetically written essays dealing with key issues in the natural sciences. It will appeal not only to scientists, but also to all inquisitive minds, regardless of educational and professional background.

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(d) Edited books: Parren PWH, Burton DR: Antibodies against HIV-1 from phage display libraries: Mapping of an antiviral immune response and progress towards antiviral immuno-therapy; in Capra JID (ed); Antibody Engineering. Chem Immunol. Basel, Karger, 1997, vol 65, pp 18–56.

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Selected contributions
Longitudinal Changes in Cognition in Parkinson's Disease with and without Dementia: Johnson, D.K., et.al
Linkage Analysis of Autopsy-Confirmed Familial Alzheimer Disease Supports an Alzheimer Disease Locus in 8p24: Sillén, A., et.al
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The Montreal Cognitive Assessment and the Mini-Mental State Examination as Screening Instruments for Cognitive Impairment: Item Analyses and Threshold Scores: Damian, A.M., et.al
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Review of Effects of Physical Activity on Strength, Balance, Mobility and ADL Performance in Elderly Subjects with Dementia: Blankevoort, C.G., et.al
IL-6–174 G/C and ApoE Gene Polymorphisms in Alzheimer's and Vascular Dementia Patients Attending the Cognitive Disorder Clinic of the All India Institute of Medical Sciences, New Delhi: Mansoori, N., et.al

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New insights into movement control after lesions

Spinal Circuits and the Musculoskeletal System
Translation of Basic Research into the Clinic

Editor
Richard L. Segal

This special issue presents a number of basic science studies investigating the interaction of the musculoskeletal system with spinal circuits in movement control and movement dysfunction, particularly in relation to peripheral nerve injury. At the same time, the necessity to translate basic science knowledge into clinical practice is emphasized and models of such a translation are discussed. The papers included in this issue report experiments with animal models such as cats and rats and discuss possible consequences following from these findings. Firstly, it is observed how transection and surgical repair of different nerve groups affect movement control. Also, it is illustrated how the motor system is capable of preserving the trajectories during locomotion in the face of paralysis of major muscle groups. Furthermore, effects of denervation of selected ankle extensors on movement control are tested and analyzed. Finally, the dampening effect of the popliteal fat pad on locomotion is examined, with possible implications for obesity.

This special issue furthers the understanding of the locomotor system after lesions and is essential for both basic scientists and clinicians treating people with movement dysfunctions such as physiatrists, neurologists, neurosurgeons, orthopedic surgeons, physical therapists and occupational therapists.
A qualified source of experimental data and informative clinical reports

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With some of the greatest advances from developmental endocrinology to clinical research being achieved as a direct result of close collaboration between basic and clinical investigators, *Hormone Research in Paediatrics* facilitates the interchange of ideas by placing findings at all levels and from all branches side by side in a single source. Original research papers provide a background of experimental data on the pathology, cytology, histology, biochemistry, pharmacology and regulation of hormones. This information is complemented by authoritative reports drawing on clinical experiences concerning the many diagnostic and therapeutic procedures and possibilities. In particular, such topical problems as growth, diabetes, sexual development and tumours of endocrine origin are covered in depth. As a bonus for subscribers, the journal also features frequent supplement issues.

Selected contributions

**Validation of Bone Age Methods by Their Ability to Predict Adult Height:** Thodberg, H.H. (Holte); Neuhof, J.; Ranke, M.B. (Tübingen); Jenni, O.G. (Zurich); Martin, D.D. (Tübingen)

**Pediatric Graves’ Disease: Controversies in Management:** Rivkees, S.A. (New Haven, Conn.)

**Pediatric Idiopathic Intracranial Hypertension (Pseudotumor Cerebri):** Ko, M.W.; Liu, G.T. (Philadelphia, Pa.)

**Bone Age Assessment in the Workup of Children with Endocrine Disorders:** Spadoni, G.L.; Gianfarani, S. (Rome)

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**Sex Hormones, Insulin Resistance and High-Density Lipoprotein Cholesterol Levels in Children:** Agirbasli, M.; Agaoglu, N.B.; Orak, N.; Caglioz, H.; Ocek, T.; Karabağ, T.; Baykan, O.A. (Istanbul)

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