Stereotactic and Functional Neurosurgery
A new comprehensive edition of a standard work, detailing and illustrating the organization, structure, function and connectivity of all individual brainstem nuclei

Olszewski and Baxter’s Cytoarchitecture of the Human Brainstem
3rd, revised and extended edition

Editors
Jean A. Büttner-Ennever
Anja K.E. Horn

The new revised and extended edition of this standard work retains all the original and unique low- and high-power photographs which document the organization of the human brainstem as well as the individual character of the neurons of each nucleus. Many structural differences are described in neuronal groups, indicating as yet unrecognized functional differences. Furthermore unique details of the neuronal organization and cytoarchitecture are featured, providing clues to the functional properties of the cell groups and stimulating research projects.

Nomenclature and nuclear borders have been updated, in addition the text now contains new sections presenting an up-to-date summary of the functional neuroanatomy of each nucleus.

For neuroscientists and neurologists this atlas provides an invaluable and complete source of reference for both their scientific research and everyday clinical practice. Neuropathologists, neuroradiologists, neuropsychologists, neurosurgeons, physiologists and physicians will find the combination of low-power brainstem imaging with cytological, physiological and neuroanatomical data highly relevant. In addition the atlas offers researchers in other disciplines the opportunity to discover new correlations between structure and function, outlining new functional regions in the brainstem.

Main Contents
- Introduction
- Materials and Methods
- Alphabetical List of Nuclei, Abbreviations and Original Names
- Plates of Serial Sections through the Human Brainstem
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New SPARC Funding Opportunity Announcement!

Dear Colleague,

The NIH Common Fund Program on Stimulating Peripheral Activity to Relieve Conditions (SPARC) has released its first request for applications, RFA-RM-15-002: Exploratory Technologies to Understand the Control of Organ Function by the Peripheral Nervous System for SPARC (U18). This RFA solicits applications to develop new and/or enhance existing tools and technologies tailored to elucidate the neurobiology and neurophysiology underlying autonomic control of internal organs in health or disease, to inform next generation neuromodulation therapies.

SPARC is uniquely positioned to serve as a community resource that provides the broader public and private research communities with the scientific foundation necessary to create more effective and minimally invasive neuromodulation therapies. The program has the central goal of providing a basic understanding of the peripheral nervous system to catalyze development of new or more efficacious therapies based on neuromodulation of end-organ system function. This first step will support exploratory studies to develop a broad range of technologies, spanning sensing to stimulation to surgical techniques to model systems. The 2 year awards resulting from this FOA will establish feasibility for further technology development and lay the groundwork to more systematically facilitate biological mapping activities in future SPARC initiatives.

Detailed in the FOA, the cooperative agreement mechanism will involve active participation in SPARC program events and NIH partnership in supporting and stimulating the recipients’ activities.

**Due Dates:** Letter of Intent – March 14, 2015, Application – April 14, 2015

Please contact SPARC_NextGen-Tools@mail.nih.gov if you have any questions regarding this funding opportunity. In addition, please feel free to share this announcement with your colleagues.
Contents

See the journal website for contents
Join us at the cutting edge!

Join us in the vibrant city of Madrid for Europe’s premier neurosurgical meeting.

The meeting’s theme of Technical Advances in Neurosurgery provides the focus for five thematic blocks, which together cover all neurosurgical subspecialties:

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- Functional Neurosurgery
- Spinal Neurosurgery
- Paediatrics, Hydrocephalus and TBI

The programme includes many world renowned experts, along with significant opportunities to share your own work – see www.eans2015.com for more details.

An application has been submitted for EACCME accreditation. 1 EACCME credit is equivalent to 1 AMA PRA Category 1 Credit™

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Comprehensive Techniques in CSF Leak Repair and Skull Base Reconstruction

Editor
Benjamin S. Bleier

Written by international leading experts in the field of skull base surgery, this publication provides a comprehensive description of both the etiology and management of defects arising in the anterior skull base. The contributions explore the cutting edge techniques in cranial base repair including free grafting, pedicled endonasal and extranasal grafts as well as free flap reconstruction. Further, this volume provides a detailed description of how to enhance success in cerebrospinal fluid leak and encephalocele repair using an evidence-based approach to the diagnosis and localization.

The contributions are accompanied by high-definition online videos that enable the reader to watch endoscopic skull base repairs performed by the masters while providing a step-by-step explanation of the techniques utilized.

Otolaryngologists, neurosurgeons as well as physicians interested in learning about or wishing to optimize their techniques in anterior skull base reconstruction will find this publication indispensable reading.

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- Complications of Skull Base Reconstruction: Chaaban, M.R.; Woodward, B.A.
- Prevention and Management of Complications after Radiotherapy for Skull Base Tumors: A Multidisciplinary Approach: Jang, J.W.; Chan, A.W.
- Novel Techniques and the Future of Skull Base Reconstruction: Meier, J.C.; Bleier, B.S.
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A rapidly-growing field, stroke and cerebrovascular research is unique in that it involves a variety of specialties such as neurology, internal medicine, surgery, radiology, epidemiology, cardiology, hematology, psychology and rehabilitation. Cerebrovascular Diseases is an international forum which meets the growing need for sophisticated, up-to-date scientific information on clinical data, diagnostic testing, and therapeutic issues, dealing with all aspects of stroke and cerebrovascular diseases. It contains original contributions, reviews of selected topics and clinical investigative studies, recent meeting reports and work-in-progress as well as discussions on controversial issues. All aspects related to clinical advances are considered, while purely experimental work appears if directly relevant to clinical issues.

Cerebrovascular Diseases

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Selected contributions
• Intracranial Stenosis: Impact of Randomized Trials on Treatment Preferences of US Neurologists and Neurointerventionists: Turan, T.N. (Charleston, S.C.); Cotsonis, G.; Lynn, M.A. (Atlanta, Ga.); Wooley, R.H. (Charleston, S.C.); Swanson, S. (Atlanta, Ga.); Williams, J.E. (Chapel Hill, N.C.).


• Clinical Course of Asymptomatic Adult Moyamoya Disease: Jo, K.-L.; Yeon, J.Y.; Hong, S.-C.; Kim, J.-S. (Seoul).


• Comparison of the European and Japanese Guidelines for the Management of Ischemic Stroke: Kern, R. (Mannheim); Nagayama, M. (Atami); Toyoda, K. (Osaka); Steiner, T. (Frankfurt/Heidelberg); Hennerici, M.G. (Mannheim); Shinohara, Y. (Tokyo).

• Comparison of the European and Japanese Guidelines for the Acute Management of Intracerebral Hemorrhage: Toyoda, K. (Osaka); Steiner, T. (Frankfurt/Heidelberg); Eppele, C. (Heidelberg); Kern, R. (Mannheim); Nagayama, M. (Atami); Shinohara, Y. (Tokyo); Hennerici, M.G. (Mannheim).

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Cover illustration
Radiological localization of the nucleus accumbens (*). For details see Salgado and Kaplitt, pp. 75–93.