

Tenth International Symposium on Neural Regeneration

Journal of Rehabilitation Research and Development

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Roger Madison, PhD
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Scientific Program

WEDNESDAY—DECEMBER 10, 2003

Afternoon

- 3:00–6:00 P.M. ARRIVAL OF PARTICIPANTS AND CHECK-IN
- 6:00 Dinner
- 7:30 Welcome and Keynote Address
KEYNOTE SPEAKER
Mary Bunge
University of Miami—Miami, Florida, USA
Neuroprotection and regeneration strategies to promote repair of the injured spinal cord

THURSDAY—DECEMBER 11, 2003

Morning Session

Optic Nerve Regeneration

CHAIRMAN: KWOK-FAI SO
University of Hong Kong

- 8:15 A.M. CHAIRMAN'S INTRODUCTION
- 8:30 **Ben Barres**
Stanford University—Stanford, California, USA
Amacrine-signaled loss of intrinsic axon growth ability by retinal ganglion cells
- 9:00 **Solon Thanos**
Universitat Münster—Münster, GERMANY
Evidence for functional regeneration of the visual pathway in adult rats

- 9:30 A.M. **Martin Berry**
Centre for Neuroscience, Neural Damage and Repair—Kings College, London, UK
Acute and delayed optic nerve regeneration in the adult rat: sleeping fibres awakened, putative CNS inhibitory signals ignored, de novo scar formation inhibited and established scars dispersed
- 10:00 Break
- 10:30 **Sarah Dunlop**
University of Western Australia—Crawley, WESTERN AUSTRALIA
Molecular and behavioral correlates of optic nerve regeneration
- 11:00 **Peter Hitchcock**
University of Michigan—Ann Arbor, Michigan, USA
Persistent and injury-induced neuronal regeneration in the vertebrate retina
- 11:30 **Joseph Rizzo**
Massachusetts Institute of Technology—Cambridge, Massachusetts, USA
Veterans Affairs Medical Center—Boston, Massachusetts, USA
Development of a retinal prosthesis to restore vision to blind patients
- Noon Lunch
- 1:00 P.M. *Poster Session 1*
- 5:00 FEATURED SPEAKER
Hunter Peckham
Case Western Reserve University—Cleveland, Ohio, USA
Veterans Affairs Medical Center—Cleveland, Ohio, USA
Neuroprostheses for functional restoration: Current status and future directions
- 6:00 Dinner

*Evening Session***Biological and Translational Potential of Olfactory Ensheathing Glial Cells**

CHAIRMAN: ALMUDENA RAMON-CUETO

Institute of Biomedicine, Spanish Council for Scientific Research—Valencia, SPAIN

- 7:15 P.M. CHAIRMAN'S INTRODUCTION
- 7:30 **Jeffery Kocsis**
Yale University—New Haven, Connecticut, USA
Veterans Affairs Medical Center—West Haven, Connecticut, USA
Bone marrow stromal cells (MSCs) as a potential source for neural repair
- 8:00 **Susan Barnett**
University of Glasgow—Glasgow, SCOTLAND
The pros and cons of olfactory ensheathing cells (OECs) in CNS repair
- 8:30 **Jane Roskams**
University of British Columbia—Vancouver, British Columbia, CANADA
Lamina propria-derived olfactory ensheathing cells in spinal cord regeneration

9:00 P.M. **Martin Oudega**
 University of Miami—Miami, Florida, USA
Schwann cells and olfactory ensheathing glia for repair of the injured spinal cord

FRIDAY—DECEMBER 12, 2003

Morning Session

Visceral Function and Pain in SCI

CHAIRMAN: ALEXANDER RABCHEVSKY

University of Kentucky—Lexington, Kentucky, USA

8:15 A.M. CHAIRMAN'S INTRODUCTION

8:30 **Lynne Weaver**
 John P. Robarts Research Institute—London, Ontario, CANADA
An early anti-inflammatory strategy markedly reduces autonomic dysreflexia and chronic pain after clip-compression spinal cord injury in rats

9:00 **Matt Ramer**
 University of British Columbia—Vancouver, British Columbia, CANADA
Intraspinal sprouting and neuropathic pain following dorsal rhizotomy

9:30 **George Smith**
 University of Kentucky—Lexington, Kentucky, USA
Growth and guidance factors modulating nociceptive afferent sprouting within the adult spinal cord

10:00 Break

10:30 **Vivian Mushahwar**
 University of Alberta—Edmonton, Alberta, CANADA
Novel electrical stimulation techniques for restoring limb function

11:00 FEATURED SPEAKER
Michael Fehlings
 University of Toronto—Toronto, Ontario, CANADA
Neuroprotection of the injured spinal cord: From bench to clinical application

Noon Lunch

5:00 P.M. FEATURED SPEAKER
Ellen Heber-Katz
 The Wistar Institute—Philadelphia, Pennsylvania, USA
A model of mammalian regeneration—The MRL mouse

6:00 Dinner

Evening Session

Regeneration in Complex Systems

CHAIRMAN: SUSAN BRYANT

University of California—Irvine, California, USA

- 7:15 P.M. CHAIRMAN'S INTRODUCTION
- 7:30 **David Gardiner**
University of California—Irvine, California, USA
Vertebrate limb regeneration and the origin of limb stem cells
- 8:00 **Ken Muneoka**
Tulane University—New Orleans, Louisiana, USA
Msx genes and BMP signaling in mammalian digit regeneration
- 8:30 **Shannon Odelberg**
University of Utah—Salt Lake City, Utah, USA
Determining the molecular basis for cellular plasticity during newt limb regeneration
- 9:00 **Catherina Becker**
University of Hamburg—Hamburg, GERMANY
Molecular determinants of successful regeneration in the CNS of adult zebrafish

SATURDAY—DECEMBER 13, 2003

Morning Session

Molecular Correlates of Nerve Regeneration

CHAIRMAN: MARIE FILBIN

Hunter College—New York, New York, USA

- 8:15 A.M. CHAIRMAN'S INTRODUCTION
- 8:30 **Melitta Schachner**
University of Hamburg—Hamburg, GERMANY
The neural recognition molecule L1 and functional recovery in mammals
- 9:00 **Wolfram Tetzlaff**
University of British Columbia—Vancouver, British Columbia, CANADA
Cell body treatment strategies to promote axonal regeneration after acute and chronic spinal cord injury
- 9:30 **Mark Tuszynski**
University of California—San Diego, California, USA
Balancing inhibitory signals with growth signals in the injured spinal cord
- 10:00 Break
- 10:30 FEATURED SPEAKER
Stephen Strittmatter
Yale University—New Haven, Connecticut, USA
The role of Nogo and Nogo receptor in axonal regeneration
- Noon Lunch
- 1:00 P.M. *Poster Session 2*

*Afternoon Session***Emerging Topics in Regeneration**

CHAIRMAN: JOHN STEEVES

University of British Columbia—Vancouver, British Columbia, CANADA

- 4:15 P.M. CHAIRMAN'S INTRODUCTION
- 4:30 Two Chosen Poster Presentations
- 5:00 **Malcolm Maden**
King's College London—London, England, UK
The induction of neurite regeneration in adult spinal cord using equine infectious anaemia based lentiviral vectors
- 5:30 **Uri Sagman**
C Sixty, Inc.—Toronto, Ontario, CANADA
Fullerene nanoparticles as neuroprotectant agents
- 6:00 **Presentation of the Fredrick Seil ISNR Trainee Awards**
- 6:30 Symposium Banquet

SUNDAY—DECEMBER 14, 2003

DEPARTURE OF PARTICIPANTS

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