
Editorial v

Review
Tissue culture studies of neural plasticity
F. J. Seil (U.S.A.) 1

Research Reports
Fetal neocortical transplants grafted into cortical lesion cavities made in newborn rats receive multiple host afferents.
A retrograde fluorescent tracer analysis

Expression of growth-associated proteins (GAPs) in injured sensory axons of frogs acclimatized to 15°C and 25°C
M. A. Bisby, J. D. Redshaw, W. Tetzlaff, M. de Leon and R. C. Carlsen (Canada, U.S.A.) 25

Rabbit retinal ganglion cells survive optic nerve transection and entubulation repair with type I collagen nerve guide tubes
C. M. Rosarie, K. R. Fry and R. Madison (U.S.A.) 31

The effects of 4-aminopyridine on focal nerve conduction block
I.-H. Hsu, E. Toyoshima and R. F. Mayer (U.S.A.) 39

Rehabilitation training of homonymous visual field defects in patients with postgeniculate damage of the visual system
K. Pommerenke and H. J. Markowitz (F.R.G.) 47

Comparison of the synthesis and axonal transport of glycoproteins by intact and regenerating sensory neurons in the frog
M. De Leon and R. C. Carlsen (U.S.A.) 65

Recovery of preoptic-anterior hypothalamic functions after transplantation
S. Verma, V. Mohan Kumar, G. Gopinath, R. Sharma and P. N. Tandon (India) 77

Factors affecting septal graft amelioration of differential reinforcement of low rates (DRL) and activity deficits after fimbria-fornix lesions
S. B. Dunnett, F. L. Martel, D. C. Rogers and S. Finger (U.K.) 83

Abstract Selection from Excerpta Medica’s EMBASE

ABSTRACTS OF THE IIIrd INTERNATIONAL SYMPOSIUM ON NEURAL TRANSPLANTATION –
Neural Transplantation: From Molecular Bases to Clinical Application, 6–11 August 1989,
Cambridge, U.K.

Editorial .......................................................... i

Oral Session 1. Genetically Engineered Cells for Transplantation ........................................ 101
Oral Session 2. Alternative Delivery Systems ........................................................................... 102
Oral Session 3. Trophic Mechanisms and Formation of Connectivity ........................................ 103
Oral Session 4. Immunological Aspects .................................................................................... 105
Oral Session 5. Functional Analysis ......................................................................................... 106
Oral Session 6. Animal Models of Neurological Disorders ....................................................... 108
Oral Session 7. Primate Models of Basal Ganglia Disorder ....................................................... 109
Poster Session 1. Genetic Engineering ...................................................................................... 111
SPECIAL ISSUE: REGULATORS OF PERIPHERAL NERVE REGENERATION
GUEST-EDITED BY
A. EDSTRÖM, M. KANJE AND D.A. TONGE

Editorial

Expression and distribution of microtubule proteins in neurites of dorsal root ganglion neurons in culture
R. D. Burgoyne and S. J. Robson (U.K.)

Alteration of cytoskeletal organization during axonal elongation and its role in regulating the growth process
P. F. Cancalon (U.S.A.)

Cytoskeletal protein synthesis and regulation of nerve regeneration in PNS and CNS neurons of the rat
W. Tetzlaff and M. A. Bisby (Canada)

Some hypotheses concerning axon regeneration
D. L. Wilson and G. W. Perry (U.S.A.)

Insulin-like growth factor II gene expression: relationship to the development and regeneration of neuromuscular synapses
D. N. Ishii (U.S.A.)

Insulin-like growth factor I (IGF-I) and regeneration of the sciatic nerve of the rat
M. Kanje, A. Skottner and J. Sjöberg (Sweden)

The expression of growth factor receptors during nerve regeneration
G. Raivich, R. Heilweg, M. B. Graeber and G. W. Kreutzberg (F.R.G.)

Increase in protein and tubulin mRNA synthesis in frog sensory neurons treated with the adenylate cyclase activator, forskolin
R. C. Carlsten, M. De Leon, W. Tetzlaff, I. M. Parhad and M. A. Bisby (U.S.A., Canada)

Effects of human growth hormone on peripheral nerve regeneration
A. Skottner, M. Kanje, V. Arhenius-Nyberg and G. Lundborg (Sweden)

B-50/GAP-43 in neuronal development and repair
Posttranslational modification of nerve proteins by amino acids
N.A. Ingoglia, G. Chakraborty, M. Yu, D. Luo and C. Liu (U.S.A.)
245

Regeneration of the rat sciatic nerve in the silicone chamber model
N. Danielsen (Sweden)
253

Regeneration in vitro of the adult frog sciatic sensory axons
A. Edström, M. Edbladh, P. Ekström and P. Remgård (Sweden)
261

Regeneration in vitro of axolotl peripheral and central axons
D.A. Tonge, J.D.W. Clarke, K. Hunter and J. Golding (U.K.)
267

Specificity in regenerative outgrowth and target reinnervation by mammalian peripheral axons
H. Aldskogius and C. Molander (Sweden)
275

Preferential motor reinnervation: a sequential double-labeling study
T.M.E. Brushart (U.S.A.)
281

Regeneration after spinal nerve root injury
T. Carlstedt, M. Risling, H. Lindå, S. Cullheim, B. Ulfhake and A.M. Sjögren (Sweden)
289

Nerve regeneration problems in a clinical perspective
G. Lundborg (Sweden)
297

Pulsed electromagnetic fields stimulate nerve regeneration in vitro and in vivo
B.F. Siskin, M. Kanje, G. Lundborg and W. Kurtz (U.S.A., Sweden)
303

Announcement from the Publisher

Research Reports

Post-lesion practice and amphetamine-facilitated recovery of beam-walking in the rat
L.B. Goldstein and J.N. Davis (U.S.A.)
311

Effects of adrenal medulla grafts in neonatal rat hosts on subsequent bilateral substantia nigra lesions
G.W. Simonds, S. Schwarz, E. Krauthamer and W.J. Freed (U.S.A.)
315

Long-term impairment of behavioral recovery from cortical damage can be produced by short-term GABA-agonist infusion into adjacent cortex
T.D. Hernandez and T. Schallert (U.S.A.)
323

Long-term effects of thyroid hormone deficiency on noradrenergic circuitry: electrophysiological changes in intraocular hippocampus-locus coeruleus double transplants
A.-C. Granholm (Sweden)
331

A collagen and fibrin tube for nerve repair
R. Griffiths, K. Horch and L. Stensaas (U.S.A.)
339

MHC antigen expression and cellular response in spontaneous and induced rejection of intracerebral neural xenografts in neonatal rats
I.F. Pollack, R.D. Lund and K. Rao (U.S.A.)
347

Short Communication

Chronic spinal cord transection does not affect peripheral nerve regeneration
361

Book Review

Announcement from the Publisher

Historical Note

A 16th century request for brain tissue transplantation
S. Finger (U.S.A.)
367
Research Reports
Brain tissue and neural graft reactivity to the implantation of in situ self-assembled collagen matrices
   S. Woerly and R. Marchand (Canada) 369
Increased levels of basic fibroblast growth factor (bFGF) following focal brain injury
Dynamic analysis of the righting reflex in toads; recovery after hemilabyrinthectomy
   A. Pereda, O. Macadar, I. Trabal, D. Cibilis, J.V. Echagüe and R. Budelli (Uruguay) 395

Book Review

Abstract Selection from Excerpta Medica's EMBASE

403