

PNS 2007 Biennial Meeting  
Tentative Program

<b><u>SATURDAY</u></b>	<p><b>Arrivals</b></p> <p><b>Board Meeting</b> <b>Welcome Reception</b> <b>Dinner</b></p>
4:30 PM 6:00 8:00	
<b><u>SUNDAY</u></b>	
7:30 AM	<b>Breakfast and Poster Session 1</b>
8:30	<p><b>Plenary Lecture 1</b> <b>GBS CIDP Foundation International Lecture</b> <b>Carbohydrate mimicry in inflammatory neuropathies</b> <b>Nobuhiro Yuki</b></p>
9:00	<p><b>Platform Session 1</b> (Immunology) <i>Chairs: Patricia J. Armati and Kazim A. Sheikh</i></p> <p>IgG ANTIBODY HIGHLY SPECIFIC TO GD1B IS SPECIFICALLY ASSOCIATED WITH ATAXIA IN GUILLAIN-BARRÉ SYNDROME <b><u>Kusunoki S, Kaida K.</u></b></p> <p>GENETIC POLYMORPHISMS OF MACROPHAGE-MEDIATORS IN GUILLAIN-BARRÉ SYNDROME <b><u>Geleijns K, Emonts M, Laman JD, van Rijs W, van Doorn PA, Hermans PWM, Jacobs BC.</u></b></p> <p>NEUROFASCIN: A TARGET FOR ANTIBODY MEDIATED AXONAL INJURY IN PERIPHERAL NEUROPATHIES <b><u>Mathey EK, Williams KR, Rasband MN, Willison HJ, Armati PJ, Pollard JD, Linington C.</u></b></p> <p>PASSIVE TRANSFER OF ANTI-GM1 ANTIBODIES FROM A GBS PATIENT INHIBITS NERVE REGENERATION IN MICE <b><u>Lopez PHH, Zhang G, Sheikh KA.</u></b></p> <p>AXONS ARE THE PRIMARY TARGETS OF NITRIC OXIDE MEDIATED INJURY IN AN IN VITRO MODEL OF INFLAMMATORY NEUROPATHY <b><u>Lehmann HC, Koehne A, zu Hörste GM, Dehme T, Kiehl O, Hartung H-P, Kastenbauer S, Kieseier BC.</u></b></p>
10:15	<b>Coffee Break</b>
10:45	<p><b>Platform Session 1</b> (continued) (CIDP, GBS, Treatment) <i>Chairs: Pieter A. van Doorn and Angelo Schenone</i></p> <p>DEVELOPMENT OF DIAGNOSTIC CRITERIA FOR CHRONIC INFLAMMATORY DEMYELINATING POLYNEUROPATHY <b><u>Koski CL, Baumgarten M, Magder LS, Barohn RJ, Goldstein J, Gorson K, Hahn AF, Hughes RAC, Katz J, Lewis RA, Parry GJ, van Doorn PA, Cornblath DR.</u></b></p>

<p>11:30</p>	<p>LONGTERM IV IMMUNOGLOBULIN TREATMENT IN CHRONIC INFLAMMATORY DEMYELINATING POLYNEUROPATHY <b>van Doorn PA, Dippel DWJ, Vermeulen M.</b></p> <p>LONG-TERM EFFICACY OF RITUXIMAB IN ANTI-MAG POLYNEUROPATHY <b>Benedetti L, Briani C, Carpo M, Cocito D, Vigo T, Beronio A, Zara G, Zambello R, Sormani MP, Mancardi GL, Nobile-Orazio E, Schenone A.</b></p> <p style="text-align: center;"><b>Plenary Lecture 2 PNS Presidential Lecture Treating nerves Richard A.C. Hughes</b></p>
<p>12:00 Noon</p>	<p><b>Lunch and Poster Session 1</b> <i>(Posters from Session 2 also on display)</i></p> <p>ENDONEURIAL MICROVASCULAR PATHOLOGY IN FELINE DIABETIC NEUROPATHY <b>Estrella J, Shelton GD, Vernau KM, Sturges BK, Nelson RW, LeCouteur RA, Williams DC, Mizisin AP.</b></p> <p>A PROSPECTIVE LONG-TERM STUDY OF ELECTROMYOGRAPHIC AND MOTOR NERVE CONDUCTION ABNORMALITIES IN PATIENTS WITH CLINICALLY ISOLATED SENSORY NEUROPATHY <b>Toth C, Zochodne DW.</b></p> <p>EUROPEAN INTER-LABORATORY AGREEMENT PROJECT ON SKIN BIOPSY STANDARDIZATION AND INNERVATION COUNT <b>Lauria G, Penza P, Melli G, Camozzi F, Mellgren SI, Nebuchennykh M, Devigili G, Granieri E, Bakkers M, Faber KG, Merkies ISJ, He L, Üçeyler N, Sommer C.</b></p> <p>PREVALENCE AND RISK FOR UPPER EXTREMITY COMPRESSIVE MONONEUROPATHIES IN DIABETES <b>Wagner JC, Singleton JR, Bixby B, Dolan C, Wade J, Bradley D, Smith AG.</b></p> <p>ASSESSMENT OF LARGE FIBER PROPRIOCEPTIVE DEFICITS AND SENSORY FIBER INNERVATION IN DIABETIC MICE <b>Jones KA, Ryals JM, Pinkston J, Fowler SC, Wright DE.</b></p> <p>MOUSE MODELS OF DIABETIC NEUROPATHY <b>Sullivan KA, Hayes JM, Wiggin TD, Backus C, Oh SS, Lentz SI, Brosius F III, Feldman EL.</b></p> <p>PLANTAR NERVE STUDY IN PATIENTS WITH DIABETIC SENSORY POLYNEUROPATHY WITH NORMAL ROUTINE NCS <b>Park K-S, Hong Y-H, Sung J-J, Park S-H, Lee K-W.</b></p> <p>ATYPICAL CASE OF A SEVERE DELAYED OXALIPLATIN-INDUCED NEUROPATHY <b>de Rijk MC, van Warmerdam LJC, van Doorn PA.</b></p> <p>CORRELATION BETWEEN DIABETIC NEUROPATHY ASSESSMENT SCALES, EPIDERMAL NERVE FIBER DENSITY AND VIBRATORY TESTING METHODS <b>Pasnoor M, Herbelin L, Gronseth G, McVey AL, Masrani S, Johnson MS, Wright DE, Barohn RJ.</b></p>

THE PATHOLOGICAL BASIS OF PAINLESS DIABETIC LUMBOSACRAL  
RADICULOPLEXUS NEUROPATHY

**Garces-Sanchez M, Dyck PJ, Engelstad JK, Norell J, Dyck PJB.**

INHIBITION OF THE NUCLEAR FACTOR KAPPA B CASCADE CAUSES DOSE-  
DEPENDENT IMPROVEMENTS IN PERIPHERAL NERVE FUNCTION IN DIABETIC RATS

**Cameron NE, Cotter MA.**

COMPARATIVE ELECTROPHYSIOLOGICAL STUDY OF PERIPHERAL NEUROPATHY IN  
NOD AND ICR DIABETIC MICE

**Homs J, Casals L, Chillón M, Bosch A, Navarro X.** *WITHDRAWN*

AUTOLOGOUS STEM CELL TRANSPLANTATION IN A PATIENT WITH A CHRONIC  
DEMYELINATING NEUROPATHY AND PERSISTENT CONDUCTION BLOCK

**Barreira AA, Marques W Jr, Rezende C, de Souza DGB, Voltarelli J.**

AN ACCURATE AND VALIDATED CLINICAL PROGNOSTIC SCORING SYSTEM FOR  
GUILLAIN-BARRÉ SYNDROME

**van Koningsveld R, Steyerberg EW, Hughes RAC, Swan AV, van Doorn PA,  
Jacobs BC.**

POEMS SYNDROME: RELAPSE AFTER SUCCESSFUL AUTOLOGOUS PERIPHERAL  
BLOOD STEM CELL TRANSPLANTATION

**Marelli C, Giglia F, Chiapparini L, Fariselli L, Barbui T, Ciano C, Scarlato M,  
Pareyson D.**

THE USE OF NERVE AND MUSCLE BIOPSY IN THE DIAGNOSIS OF VASCULITIS: A  
5-YEAR RETROSPECTIVE STUDY OF 53 CASES

**Bennett DLH, Groves M, Blake J, Holton JL, King RHM, Orrell RW, Ginsberg  
L, Reilly MM.**

THE EFFECT OF COMBINING CLINICAL AND ELECTRODIAGNOSTIC DATA ON THE  
SENSITIVITY OF DIAGNOSTIC CRITERIA FOR CHRONIC INFLAMMATORY  
DEMYELINATING POLYNEUROPATHY (CIDP)

**Saperstein DS, Alseoudi S, Anderson H, Herbelin L, McVey AL, Barohn RJ.**

CHRONIC INFLAMMATORY LUMBOSACRAL POLYRADICULOPATHY

**Walk D, Parry GJ.**

SERUM VEGF LEVELS IN POEMS SYNDROME AND IN IMMUNE MEDIATED  
NEUROPATHIES

**Giannotta C, Terenghi F, Casellato C, Gallia F, Nobile-Orazio E.**

EBV RELATED PURE MOTOR AXONAL NEUROPATHY ASSOCIATED WITH HIV  
INFECTION

**Clemenzi A, Latino P, Scontrini A, Fornasiero A, Di Pasquale A, Bucci E,  
Morino S, Antonini G.**

PARANEOPLASTIC PERIPHERAL NEUROPATHIES

**Antoine J-C, Grisold W, Giometto B.**

SENSITIVITY OF COMMONLY USED CRITERIA FOR THE DIAGNOSIS OF ACQUIRED  
SENSORY NEURONOPATHY (ASN)

**Jousserand G, Camdessanché J-P, Ferraud K, Honnorat J, Petiot P, Vial C,  
Antoine J-C.**

RECOMMENDATIONS ON DIAGNOSTIC STRATEGIES FOR CIDP  
**Vallat J-M, Magy L; on behalf of the French CIDP Study Group.**

FISHER SYNDROME OVERLAPPING GUILLAIN-BARRÉ SYNDROME OFTEN SHOWS RESPIRATORY FAILURE  
**Funakoshi K, Kuwabara S, Hirata K, Yuki N.**

CELL MEDIATED IMMUNE RESPONSES TO PERIPHERAL NERVE MYELIN PROTEINS IN CHRONIC INFLAMMATORY DEMYELINATING POLYRADICULONEUROPATHY  
**Sanvito L, Makowska A, Nemni R, Peakman M, Hughes RAC.**

VALIDATION OF ELISA FOR DETECTION OF ANTI-MAG IgM ANTIBODIES  
**Kuijf ML, Eurelings M, Tio-Gillen AP, van Doorn PA, van den Berg LH, Notermans NC, Jacobs BC.**

HYPERTROPHIC CHRONIC INFLAMMATORY DEMYELINATING POLYNEUROPATHY PRESENTING AS NEUROFIBROMATOSIS  
**Chahin N, Polston DW, Spinner RJ, Amrami KK, Dyck PJB.**

REGRESSION OF SMALL CELL LUNG CARCINOMA IN A PATIENT WITH PARANEOPLASTIC HU-POSITIVE SUBACUTE SENSORY NEURONOPATHY  
**Fazio R, De Feo D, Malaguti MC, Butera C, Dacci P, Privitera D, Comi G.**

EVALUATION OF AUTONOMIC LEPROSY NEUROPATHY IN COMPARISON WITH CLINICAL AND ELECTROPHYSIOLOGICAL FINDINGS  
**Vital R, Nascimento OJM, Jardim M, Illarramendi X, Sarno E.**

REVISING THE TWO-POINT DISCRIMINATION ASSESSMENT USING A SLIDING ESTHESIOMETER IN NORMAL AGING AND IN PATIENTS WITH A POLYNEUROPATHY  
**van Nes SI, Faber KG, Hamers RMTP, Harschnitz O, Bakkers M, Hermans M, van Doorn PA, Merkies ISJ.**

CHRONIC DEMYELINATING NEUROPATHY ASSOCIATED WITH IgM MONOCLONAL GAMMOPATHY WITHOUT ANTI-MAG ACTIVITY: A DISTINCT ENTITY?  
**Léger J-M, Vargas S, Hu YH, Psimaras D, Maisonobe T, Viala K, Bouche P, Neil J, Vallat J-M.**

SEQUENTIAL EXPRESSION OF ANGIOTENSIN II RECEPTORS IN CAUDA EQUINA OF RATS WITH EXPERIMENTAL AUTOIMMUNE NEURITIS  
**Fujioka T, Kudeken T, Kiyozuka T.**

SEVERE NEUROPATHY PHENOTYPES ARE CONTROLLED BY THE ACTION OF MULTIPLE GENES  
**Baas F, Lammens M, de Wissel M, Gabreëls-Festen A, Willemsen M, Fock JM.**

MUCOSAL NERVE DEFICIT IN CHRONIC CONSTIPATION: A POST MIGRATION DEFICIT?  
**Wendelschafer-Crabb G, Neppalli V, Vance K, Jessurun J, Saltzman DA, Acton RD, Hodges JS, Kennedy WR.**

FINE STRUCTURAL DIFFERENTIATION OF DEVELOPMENTAL DISTURBANCES IN THE PERIPHERAL NERVOUS SYSTEM  
**Schröder JM.**

CONNEXIN 32 MUTATION PRESENTING WITH MONOMELIC MULTIFOCAL NEUROPATHY WITH CONDUCTION BLOCK  
**Laurá M, Cox AL, Manji H, Gibbons VS, Blake J, Davis MB, Reilly MM.**

NOVEL 95G>A (R32K) SOMATIC MOSAIC CONNEXIN 32 MUTATION  
**Baker SK, Ainsworth PJ.**

TROPISM CHARACTERIZATION OF DIFFERENT PSEUDOTYPES OF ADENO-ASSOCIATED VECTORS IN PERIPHERAL NERVOUS SYSTEM  
**Homs J, Ariza L, Chillón M, Bosch A. WITHDRAWN**

PARANEOPLASTIC NEUROPATHY IN LYMPHOMA AND HODGKIN'S DISEASE  
**Grisold W, Antoine J-C, Giometto B.**

RESTLESS LEGS SYNDROME IN PAINFUL NEUROPATHY IS RELATED TO NOCICEPTIVE DEAFFERENTATION  
**Brindani F, Vitetta F, Marbini A, Gemignani F.**

SMALL FIBER NEUROPATHY AS A PARADIGM TO ASSESS DRUG EFFICACY IN NEUROPATHIC PAIN CLINICAL TRIALS  
**Ho T, Backonja M, Ma J, Leibensperger H, Froman S, Polydefkis M.**

EPOTHILONE B (EPO-B) NEUROTOXICITY: RESULTS OF IN VITRO AND IN VIVO EXPERIMENTAL MODELS  
**Gilardini A, Cavaletti G, Nicolini G, Canta A, Carozzi V, Cossa G, Oggioni N, Bossi M, Tredici G.**

DEVELOPMENT AND SELECTION OF BIOMATERIALS FOR ARTIFICIAL NERVE TUBES  
**Knight AM, Dadsetan M, Wang S, Nesbitt JJ, Yaszemski MJ, Windebank AJ.**

INHIBITION OF TNF- $\alpha$  INCREASES EARLY AXONAL REGENERATION AND REDUCES NF- $\kappa$ B DNA BINDING ACTIVITY FOLLOWING SCIATIC NERVE INJURY  
**Smith D, Tweed C, Fernyhough P, Schapansky J, Glazner GW.**

CONDITIONING SENSORY NEURONS BY PERIPHERAL ELECTRICAL STIMULATION PROMOTES NEURITE OUTGROWTH ON PERMISSIVE AND NON-PERMISSIVE GROWTH SUBSTRATES  
**Udina E, Busch S, Silver J, Gordon T.**

FUNCTIONAL EVALUATION OF UPPER LIMB NERVE INJURY MODELS IN RAT  
**Wang H, Spinner RJ, Sorenson EJ, Bois JP, de Ruiter GCW, Windebank AJ.**

THE NATURAL HISTORY OF MGUS ASSOCIATED NEUROPATHIES  
**Patel A, Fisher MA.**

NOGO EXPRESSION IN SCHWANN CELLS IN VITRO IS DECREASED BY THE AXOLEMMAL-LIKE STIMULUS CYCLIC ADENOSINE MONOPHOSPHATE  
**Lisak RP, Bealmear BM, Benjamins JA, Yao B, Land S.**

NA,K-ATPASE ISOFORMS IN THE PNS: CELL-TYPE SPECIFIC EXPRESSION AND INTERNODAL LOCALIZATION IN MYELINATED AXONS  
**Kleinberg CS, Arroyo EJ, King C, Scherer SS.**

MAG PROMOTES AXONAL STABILITY AND PREVENTS AXONAL DEGENERATION IN IN VITRO AND IN VIVO MODELS  
**Nguyen T, Mehta N, Conant K, Kerr D, Schnaar R, Griffin JW.**

	<p>GLUTAMATE CARBOXYPEPTIDASE II (GCP II, NAALADASE) INHIBITION PROTECTS AGAINST CISPLATIN-INDUCED PERIPHERAL NEUROTOXICITY IN A RAT MODEL  <u>Carozzi V, Canta A, Konvalinka J, Slusher B, Wozniak KM, Lapidus RG, Tredici G.</u></p>
2:30 PM	<p style="text-align: center;"><b>Plenary Lecture 3</b>  <b>Aetiology of diabetic neuropathy</b>  <b>David R. Tomlinson</b></p>
3:00	<p><b>Platform Session 2</b> (Diabetic neuropathy)  <i>Chairs: Andrew P. Mizisin and Douglas W. Zochodne</i></p> <p>DIABETES RAISES LEVELS OF AXONAL ROS, ALTERS AXON MORPHOLOGY AND IMPAIRS AXONAL REGENERATION IN CULTURED ADULT SENSORY NEURONS  <u>Zherebitskaya E, Fernyhough P.</u></p> <p>INVOLVEMENT OF GLYCOPROTEIN 38 IN OXIDATIVE NEURONAL STRESS IN EXPERIMENTAL DIABETIC NEUROPATHY  <u>Duran-Jimenez B, Heaver E, Tomlinson DR.</u></p> <p>SREBP-1C EXPRESSION IN SCHWANN CELLS IS AFFECTED BY DIABETES AND NUTRITIONAL STATUS  <u>de Preux A-S, Goosen K, Zhang W, Sima AAF, Shimano H, Ouwens MD, Diamant M, Hillebrands J-L, Rozing J, Lemke G, Beckmann JS, Smit AB, Verheijen MHG, Chrast R.</u></p> <p>THE TIME COURSE OF STRUCTURAL AND FUNCTIONAL CHANGES IN EPIDERMAL NERVES OF A MOUSE MODEL OF TYPE 1 DIABETES  <u>Beiswenger K, Calcutt N, Mizisin AP.</u></p> <p>EXPERIMENTAL NEUROPATHY IN A TYPE II DIABETES RAT MODEL  <u>Zochodne DW, Brussee V, Dong YY, Martinez JA, Guo G.</u></p>
4:15	<p><b>Coffee Break</b></p>
4:45	<p><b>Platform Session 2</b> (continued) (Diabetic neuropathy)  <i>Chairs: Eva L. Feldman and William R. Kennedy</i></p> <p>CORRELATION BETWEEN INTRA-EPIDERMAL NERVE FIBER DENSITY AND AUTONOMIC FUNCTIONS IN EARLY DIABETIC NEUROPATHY  <u>Umapathi T, Tay LB, Tan WL, Jong M, Chew DEK, Chan YH.</u></p> <p>MUCOSAL GASTRIC NERVES: A MARKER OF AUTONOMIC NEUROPATHY IN TYPE I DIABETIC PATIENTS WITH GASTROPARESIS  <u>Selim MM, Wendelschafer-Crabb G, Redmon B, Khoruts A, Walk D, Kennedy WR.</u></p> <p>USE OF THE NOVEL CONTACT HEAT EVOKED POTENTIAL STIMULATOR FOR THE DIAGNOSIS OF SMALL FIBRE NEUROPATHIES: CORRELATIONS WITH SKIN FLARE AND INTRA-EPIDERMAL NERVE FIBRE COUNTS  <u>Anand P, Atherton D, Facer P, Roberts K, Misra VP.</u></p>

	<p>CORNEAL CONFOCAL MICROSCOPY DETECTS EARLY NERVE REGENERATION AFTER PANCREAS TRANSPLANTATION IN DIABETIC PATIENTS DESPITE SEVERE NEUROPATHY  <b>Mehra S, Tavakoli M, Kallinikos P, Efron N, Boulton AJM, Augustine T, <u>Malik RA.</u></b></p> <p>IDENTIFICATION OF FDA-APPROVED COMPOUNDS THAT MAY PREVENT DIABETIC NEUROPATHY  <b><u>Vincent AM, Soules M, Feldman EL.</u></b></p>
6:30	<b>Dinner</b>
7:30	<b>Breakout Sessions - Free Discussions</b>
	<b><u>MONDAY</u></b>
7:30 AM	<p><b>Breakfast and Poster Session 2 with Special Session:</b></p> <p style="text-align: center;"><b>Career options in the field of peripheral nerve research</b>  <b>Eva Feldman</b></p>
8:30	<p><b>Plenary Lecture 4</b>  <b>In vivo imaging of nerve and the NMJ</b>  <b>Wesley J. Thompson</b></p>
9:00	<p><b>Platform Session 3</b> (Neurobiology/Regeneration)  <i>Chairs: John W. Griffin and Robert R. Myers</i></p> <p>BLOCKADE OF TRKA SIGNALING LEADS TO DISTAL AXONAL DEGENERATION AND IMPAIRED REGENERATION OF NGF-RESPONSIVE NERVE FIBERS  <b>Chen X, Hoffman P, Meyers R, Ringkamp M, Murinson BB, Polley M, Ginty D, <u>Griffin JW.</u></b></p> <p>INHIBITION OF PERIPHERAL NERVE REGENERATION VIA GD1A GANGLIOSIDE  <b>Lehmann HC, Lopez PHH, Zhang G, Nguyen T, Zhang J, Kieseier BC, Mori S, <u>Sheikh KA.</u></b></p> <p>EXPLOITING THE ANTI-INFLAMMATORY ACTIVITY OF THE PLASMA PROTEIN, <math>\alpha</math>2-MACROGLOBULIN, TO ALTER THE COURSE OF PERIPHERAL NERVE INJURY  <b><u>Arandjelovic S, Dragojlovic N, Li X, Myers RR, Campana WM, Gonias SL.</u></b></p> <p>TRANSTHYRETIN ENHANCES NERVE REGENERATION  <b><u>Fleming CE, Saraiva MJ, Sousa MM.</u></b></p> <p>CALCITONIN GENE-RELATED PEPTIDE AND ITS LOCAL AXONAL SYNTHESIS IS ESSENTIAL FOR ADULT NERVE REGENERATION  <b><u>Toth C, Martinez JA, Liu W, Zochodne DW.</u></b></p>
10:15	<b>Coffee Break</b>

10:45

**Platform Session 3** (continued) (Neurobiology)

*Chairs: Robert P. Lisak and Angelo Quattrini*

SOLUBLE COMPLEMENT RECEPTOR 1 (sCR1) PROTECTS NERVES FROM EARLY AXONAL LOSS AND FACILITATES RECOVERY AFTER INJURY

**Ramaglia V, Wolterman R, de Kok M, Vigar MA, Morgan BP, King RHM, Baas F.**

DIFFERENT ENDONEURIAL ECM COMPOSITION MAY INFLUENCE AXONAL REGENERATION AND THE OUTCOME OF PERIPHERAL NEUROPATHIES

**Previtali SC, Malaguti MC, Riva N, Scarlato M, Dacci P, Triolo D, Dina G, Porrello E, Lorenzetti I, Fazio R, Comi G, Bolino A, Quattrini A.**

DIFFERENTIAL GROWTH FACTOR EXPRESSION IN SUBSETS OF SCHWANN CELLS

**Hoke A, Zhou C, Redett R, Brushart T.**

ALIGNED, ELECTROSPUN NANOFIBERS FOR NERVOUS SYSTEM REGENERATION

**Corey JM, Gertz CC, Wang B-S, Birrell LK, Johnson SL, Mycek KB, Chen Q, Martin DC, Feldman EL.**

MODELING THE ROLE OF SMALL FIBER NEUROPATHY ON WOUND HEALING

**Gibbons C, Illigens B, Centi J, Freeman R.**

12:00 Noon

**Lunch and Poster Session 2**

*(Posters from Session 1 also on display)*

DIET AND EXERCISE ALONE DOES NOT PREVENT PROGRESSION OF PREDIABETIC NEUROPATHY

**Singleton JR, Wade J, Feldman EL, Russell JW, Peltier A, Goldstein J, Smith AG.**

SCHWANN CELL MEDIATED LACTATE RELEASE INCREASES OXIDATIVE STRESS IN SENSORY NEURONS

**Edwards JL, Backus C, Feldman EL.**

DIFFERENTIAL REGULATION OF TGF- $\beta$  IS ASSOCIATED WITH DIABETIC NEUROPATHY

**Anjaneyulu M, Berent-Spillson A, Inoue T, Russell JW.**

HYPERGLYCEMIA-INDUCED OXIDATIVE STRESS AND NEURONAL INJURY

**Sadidi M, Backus C, Lentz SI, Hayes JM, Feldman EL.**

TUMOR NECROSIS FACTOR ALPHA INHIBITION IMPROVES NERVE FUNCTION IN DIABETIC RATS

**Cotter MA, Cameron NE.**

DIFFERENTIAL VULNERABILITIES OF NOCICEPTIVE SUBPOPULATIONS IN DIABETIC NEUROPATHY

**Johnson MS, Ryals JM, Wright DE.**

HSV-MEDIATED GENE TRANSFER OF ERYTHROPOIETIN TO PREVENT DEGENERATION IN DIABETIC NEUROPATHY

**Chattopadhyay M, Walter C, Glorioso JC, Mata M, Fink DJ.**

MEAN FUNCTIONAL LARGE MYELINATED FIBER DENSITY WITHIN THE PERIPHERAL NERVE TRUNK IN DIABETIC PATIENTS

**Hasegawa O, Kawasaki S, Matsumoto S.**

ASSESSMENT OF DIABETIC NEUROPATHY USING A MULTIMODAL APPROACH: RESULTS OF A CORRELATION STUDY – THE DEMAND STUDY

**Penza P, Piatti M, Marzorati L, Marmioli P, Frigeni B, Cavaletti G, Pareyson D, Sghirlanzoni A, Rubis N, Ruggenti P, Remuzzi G, Lauria G.**

FORCED-EXERCISE PROTECTS AGAINST THE DEVELOPMENT OF EARLY TACTILE HYPERALGESIA IN EXPERIMENTAL DIABETES

**Shankarappa SA, Sarkey JP, Richards MP, Stubbs EB Jr.**

THE VALUE OF MEASURING CURRENT PERCEPTION THRESHOLD IN DIABETIC SENSORY POLYNEUROPATHY WITH NORMAL ROUTINE NCS

**Oh SH, Hong Y-H, Sung J-J, Park S-H, Lee K-W, Park K-S.**

MORPHO-FUNCTIONAL RELATIONS OF THE AORTIC DEPRESSOR NERVE IN EXPERIMENTAL DIABETES

**Fazan VPS, do Carmo JM, Fazan R Jr, Salgado HC.**

EFFICACY OF IVIG DOSE INCREASE IN MULTIFOCAL MOTOR NEUROPATHY PATIENTS: A PROSPECTIVE SIX MONTH TRIAL

**Baumann A, Hess CW, Sturzenegger M.**

PERIPHERAL NEUROLOGICAL MANIFESTATIONS AND ANTIBODIES TO RIBOSOMAL P PROTEINS IN PATIENTS WITH SLE

**Briani C, Lucchetta M, Toffanin E, Ruggero S, Ghirardello A, Zampieri S, Ermani M, Scarlato M, Quattrini A, Doria A, Battistin L.**

CLINICAL AND ELECTROPHYSIOLOGICAL CHARACTERISTICS OF CHRONIC SENSORY ATAXIA ASSOCIATED WITH ANTI GD1B IGM ANTIBODIES

**Uzenot D, Delmont E, Verschueren A, Attarian S, Franques J, Boucraut J, Pouget J, Azulay J-P.**

GLIAL FIBRILLARY ACIDIC PROTEIN IN CEREBROSPINAL FLUID AS A MARKER OF ACUTE AXONAL DAMAGE IN GUILLAIN-BARRÉ SYNDROME

**Notturmo F, Caporale CM, Uncini A.**

ANTI-GD1A ANTIBODY-MEDIATED INHIBITION OF NEURITE OUTGROWTH AND ITS REVERSAL WITH ERYTHROPOIETIN

**Zhang G, Lehmann HC, Sheikh KA.**

SMALL FIBRE NEUROPATHY IN SJÖGREN SYNDROME: A 1-YEAR FOLLOW-UP STUDY

**Devigili G, Tugnoli V, Casetta I, Covoni M, Massara A, Bonazza S, Trotta F, Tola MR, Lauria G, Granieri E.**

INCREASED ANTIGEN SPECIFIC CSF/SERUM INDICES OF ANTI-ALPHA-B-CRYSTALLIN ANTIBODIES IN GUILLAIN-BARRÉ SYNDROME

**Wanschitz J, Ehling R, Löscher WN, Künz B, Deisenhammer F, Kuhle J, Budka H, Reindl M, Berger T.**

THE POSSIBLE UNDER-DIAGNOSIS OF CHRONIC INFLAMMATORY DEMYELINATING POLYRADICULONEUROPATHIES: REANALYSIS OF 1823 NERVE CONDUCTION STUDIES ACCORDING TO EFNS CRITERIA

**Kim S-Y, Sung J-J, Oh J, Kim H-J, Kim S-M, Kim M-J, Hong Y-H, Cho J-Y, Kwon OH, Park K-S, Lee K-W.**

ANTI-GANGLIOSIDE COMPLEX ANTIBODIES IN MILLER FISHER SYNDROME AND GUILLAIN-BARRÉ SYNDROME WITH OPHTHALMOPLEGIA

**Kaida K, Kanzaki M, Sada M, Hirakawa M, Motoyoshi K, Kamakura K, Kusunoki S.**

ALLOGRAFT INFLAMMATORY FACTOR-1 IN VASCULITIC NEUROPATHY: A POSSIBLE PATHOGENETIC FACTOR FOR BLOOD VESSEL INFLAMMATION

**Broglio L, Erne B, Tolnay M, Schaeren-Wiemers N, Fuhr P, Steck AJ, Renaud S.**

CARDIOVASCULAR VARIABILITY IN GUILLAIN-BARRÉ SYNDROME

**Ruts L, Tulen JHM, Hempel RJ, van den Meiracker AH, van Doorn PA.**

CHANGES IN NEUROIMMUNOLOGICAL PATTERN IN IVIg TREATED-MMN PATIENTS: A LONG-TERM FOLLOW-UP

**Carpo M, Saccomanno D, Scarlato M, Bersano A, Saladino F, Allaria S, Nobile-Orazio E, Bresolin N, Comi GP.**

AUTOLOGOUS PERIPHERAL BLOOD PROGENITOR CELL TRANSPLANTATION FOR CHRONIC INFLAMMATORY DEMYELINATING POLYRADICULONEUROPATHY

**Mahdi-Rogers M, Hughes RAC, Kazmi M, Ferner R.**

FISHER-BICKERSTAFF SYNDROME: CLINICAL ANALYSIS OF 581 CASES

**Ito M, Kuwabara S, Odaka M, Misawa S, Koga M, Hirata K, Yuki N.**

TARGETED FASCICULAR BIOPSY OF PROXIMAL NERVES WITH MRI ABNORMALITY MAY BE DIAGNOSTICALLY INFORMATIVE

**Dyck PJB, Spinner RJ, Amrami KK, Klein CJ, Engelstad J, Dyck PJ.**

CLINICAL AND ELECTROPHYSIOLOGIC FEATURES DISTINGUISH HYPERTROPHIC MADSAM FROM NEUROFIBROMATOSIS: A CASE REPORT

**Shields RW Jr, Polston DW.**

PERIPHERAL NERVE HYPEREXCITABILITY AND VOLTAGE GATED POTASSIUM CHANNEL ANTIBODIES AFTER PERIPHERAL NERVE INJURY

**Sheth S, Lewis RA.**

COMPOUND MUSCLE ACTION POTENTIAL RELATES TO QUANTITATIVE MUSCLE STRENGTH IN LONG TIME CHRONIC INFLAMMATORY DEMYELINATING POLYRADICULONEUROPATHY

**Harbo T, Andersen H, Jakobsen J.**

CLINICAL AND NEUROPATHOLOGICAL CHARACTERISTICS OF PERIPHERAL NERVE LYMPHOMA

**Taghavi V, Dyck PJ, Spinner RJ, Amrami KK, Kurtin PJ, Engelstad JK, Dyck PJB.**

CONDUCTION BLOCK IN A PATIENT WITH A MYELIN PROTEIN ZERO MUTATION

**Gabriel CM, Everitt AD, Misra VP.**

STOICHIOMETRIC ALTERATION OF PMP22 PROTEIN DETERMINES THE PHENOTYPE OF HNPP

**Li J, Ghandour K, Radovanovic D, Shy R, Krajewski K, Shy ME, Nicholson GA.**

DOWN-STREAM EFFECTS IN DEMYELINATING NEUROPATHIES

**Kwa MSG, Chandler DC, De Jonge RR, ten Asbroek ALMA, King RHM, Kalaydjieva L, Baas F.**

VASCULAR ORIGIN OF PERIPHERAL NERVE AMYLOID

**Benson MD, Kincaid JC, Liepnieks JJ.**

LEG AND FOOT MAGNETIC RESONANCE IMAGING FEATURES OF DISTAL HEREDITARY MOTOR NEUROPATHY WITH HSP27 MUTATIONS

**Cho SY, Hwang SJ, Choi K-G, Park SW, Chung KW, Choi B-O.**

C5 INHIBITION PROTECTS MOTOR NERVE TERMINALS FROM MEMBRANE ATTACK COMPLEX MEDIATED INJURY IN MURINE MILLER FISHER SYNDROME

**Halstead SK, Humphreys PD, Greenshields K, Zitman FMP, Plomp JJ, Rother RP, Willison HJ.**

MULTIFOCAL MOTOR NEUROPATHY WITH CONDUCTION BLOCK WITHOUT ANTI-GM1 ANTIBODY: A BRAZILIAN MALE CASE REPORT AND IVIG TREATMENT DISCUSSION

**Guanaes LGL, Alvarenga RMP, Alvarenga MP.**

IS THE PALMAR CUTANEOUS BRANCH OF THE MEDIAN NERVE A USEFUL ADDITIONAL TOOL IN THE DIAGNOSIS OF CTS?

**Denk C, Grisold W.**

RANDOMIZED, OPEN LABEL TRIAL ON THE EFFICACY AND TOLERABILITY OF OXCARBAZEPINE VERSUS GABAPENTIN IN THE TREATMENT OF NEUROPATHIC PAIN

**Jann S, Sterzi R.**

PLATINUM-TAXANE COMBINATION CHEMOTHERAPY: DESCRIPTION OF THE FIRST STUDY TO ASSESS THE GENERAL AND PERIPHERAL NEUROTOXICITY OF THEIR COMBINED ADMINISTRATION IN THE RAT

**Canta A, Oggioni N, Carozzi V, Avezza F, Rodriguez-Menendez V, Bossi M, Crippa L, Marmiroli P, Tredici G, Cavaletti G.**

SELECTED STATINS INDUCE A DOSE-DEPENDENT REDUCTION IN ATP LEVELS OF 50B11 NEURONS IN CULTURE

**Murinson BB, Höke A.**

MISDIRECTION OF REGENERATING MOTOR AXONS AFTER NERVE INJURY AND REPAIR IN THE RAT SCIATIC NERVE MODEL

**de Ruiter GCW, Malessy MJA, Spinner RJ, Alaid A, Engelstad JK, Sorenson EJ, Kaufman KR, Dyck PJ, Windebank AJ.**

PERIPHERAL NEUROPATHY IN IDIOPATHIC THROMBOCYTOPENIC PURPURA: INTRANEURAL BLEEDING AND FIBER DEGENERATION

**Moon J-S, Dyck PJB, Witt LV, Engelstad JK, Dyck PJ.**

NERVE INJURY IN ROTATOR CUFF PATHOLOGY

**Rowshan K, Hadley S, Lee TQ, Gupta R.**

MECHANISMS OF AXONAL DEGENERATION IN TOXIC NEUROPATHIES IDENTIFIED BY COMPARTMENTALIZED CULTURE SYSTEM

**Clifford K, Melli G, Glass JD, Höke A.**

PERINEURIOMA: A FOCAL, MOTOR PREDOMINANT, BENIGN NERVE TUMOR OF THE YOUNG

**Mauermann ML, Dyck PJ, Kuntz NL, Amrami KK, Spinner RJ, Bosch EP, Engelstad JK, Dyck PJB.**

USE OF YFP TRANSGENIC MICE TO VISUALISE NERVE REGENERATION

**Lago N, Carter L, Bennett DLH, McMahon SB.**

LACK OF MOTONEURON CELL DEATH FOLLOWING CHRONIC AND SEQUENTIAL NERVE INJURY

**Xu Q-G, Midha R, Forden J, Gordon T.**

USE OF SKIN-DERIVED STEM CELLS TO PROMOTE PERIPHERAL NERVE REGENERATION AND RECOVERY FROM CHRONIC DENERVATION

**Walsh SK, Midha R.**

2:30 PM

**Free Afternoon**

7:00

**Dinner with Breakout Sessions**

**TUESDAY**

7:30 AM

**Breakfast and Poster Session 3**

8:30

**Plenary Lecture 5**  
**Ion channel pathophysiology as a molecular basis for pain**  
**Sulayman D. Dib-Hajj**

9:00

**Platform Session 4** (Channels, Pain)

*Chairs: David R. Cornblath and W. Marie Campana*

A NOVEL MUTATION IN THE N-TERMINAL DOMAIN OF SODIUM CHANNEL SCN8A (NAV1.6)

**Sharkey LM, Trudeau M, Justice M, Meisler MH.**

SCHWANN CELLS UP-REGULATE NAV.18 AFTER CHRONIC NERVE INJURY

**Rummler LS, Palispis WA, Gupta R.**

A SOLUBLE FORM OF LOW DENSITY LIPOPROTEIN RECEPTOR-RELATED PROTEIN-1 IS BIOACTIVE IN INJURED PERIPHERAL NERVE: EFFECTS ON SPONTANEOUS PAIN BEHAVIOR AND SCHWANN CELL SIGNALING

**Gaultier A, Arandjelovic S, Li X, Dragojlovic N, Janes J, Myers RR, Gonias SL, Campana WM.**

LOCAL AND SYSTEMIC CYTOKINE EXPRESSION IN PATIENTS WITH SMALL FIBER NEUROPATHY

**Üceyler N, Kafke W, Toyka KV, Sommer C.**

	<p>CCL2 IS A KEY CONTRIBUTOR TO THE EVOLUTION OF NEUROPATHIC PAIN  <b><u>Thacker MA</u>, Bennett DLH, McMahon SB.</b></p>
10:15	<p><b>Coffee Break</b></p>
10:45	<p><b>Platform Session 4</b> (continued) (Neurobiology, Schwann cell biology)  <i>Chairs: Ranjan Gupta and J. Michael Schröder</i></p> <p>GABA RECEPTORS ARE FUNCTIONALLY ACTIVE IN THE PERIPHERAL NERVOUS SYSTEM: NEW INSIGHTS FROM THE GABA-B(1) -/- KNOCKOUT MICE  <b><u>Magnaghi V</u>, Ballabio M, Bettler B, Procacci P, Motta M.</b></p> <p>LOCAL CHRONIC NERVE INJURY INDUCES A NEURONAL PHENOTYPIC SWITCH OF THE DORSAL ROOT GANGLIA  <b>Chao T, <u>Pham K</u>, Steward O, Gupta R.</b></p> <p>TRANSCRIPTIONAL REGULATION OF THE SRY-BOX 10 LOCUS: IMPLICATIONS FOR DISEASES OF THE PERIPHERAL NERVE  <b><u>Antonellis A</u>, Vinton R, McCallion A, Green ED, Pavan WJ.</b></p> <p>ATP AND GGF2 REGULATE CONNEXIN 32 EXPRESSION IN SCHWANN CELLS  <b>Freidin MM, Asche A, <u>Abrams CK.</u></b></p> <p>THE ROLE OF CONNEXIN47 IN GAP JUNCTION COUPLING BETWEEN ASTROCYTES AND OLIGODENDROCYTES  <b><u>Orthmann-Murphy JL</u>, Fischer E, Freidin MM, Enriquez AD, Scherer SS, Abrams CK.</b></p>
12:00 Noon	<p><b>General Membership Meeting</b></p>
12:30	<p><b>Lunch and Poster Session 3</b> (1:00-2.00 JPNS Editorial Board Meeting)  <i>(Posters from Session 4 also on display)</i></p> <p>NRF-2 MEDIATED ANTIOXIDANT RESPONSE IN DRG NEURONS CAN PREVENT HYPERGLYCEMIC INJURY IN A MODEL OF DIABETIC NEUROPATHY  <b><u>Vincent AM</u>, Backus C, McLean LL, Feldman EL.</b></p> <p>INTRANASAL INSULIN DELIVERY REDUCES MORPHOLOGICAL, ELECTROPHYSIOLOGICAL, BEHAVIORAL, AND MOLECULAR CHANGES OF DIABETIC NEUROPATHY WITHOUT CHANGE IN GLYCEMIA  <b><u>Toth C</u>, Francis G, Martinez JA, Hanson L, Frey W II, Zochodne DW.</b></p> <p>BILATERAL FACIAL PALSY, INFLAMMATORY CSF AND CHRONIC INFLAMMATORY DEMYELINATING POLYNEUROPATHY: ONE OR MORE DISEASES?  <b>Lindeck-Pozza E, Gelpi E, Stanek G, <u>Grisold W.</u></b></p> <p>INTRA-EPIDERMAL NERVE FIBRE LOSS IS RELATED TO REDUCED EPIDERMAL EXPRESSION OF VEGF IN HUMAN DIABETIC NEUROPATHY  <b>Quattrini C, Jeziorska M, Boulton AJM, <u>Malik RA.</u></b></p> <p>MORPHOMETRIC STUDIES ON MOTOR NERVE BIOPSIES IN PATIENTS WITH LOWER MOTOR NEURON SYNDROME  <b><u>Casellato C</u>, Malaguti MC, Lazzerini A, Quattrini A, Nobile-Orazio E.</b></p>

SCHWANN CELLS AS ANTIGEN PRESENTING CELLS IN INFLAMMATORY NEUROPATHIES

**zu Hörste GM, Heidenreich H, Lehmann HC, Hartung H-P, Wiendl H, Kieseier BC.**

EXPRESSION OF MMP-2 IS ASSOCIATED WITH MYELINATION OF DORSAL ROOT GANGLIA NEURONS IN VITRO

**Lehmann HC, Koehne A, zu Hörste GM, Bernal F, Hartung H-P, Kieseier BC.**

MATURATION OF DENDRITIC CELLS BY GUILLAIN-BARRÉ SYNDROME ASSOCIATED CAMPYLOBACTER JEJUNI IS RELATED TO EXPRESSION OF SIALIC ACID

**Kuijf ML, Samsom JN, van Rijs W, Heikema AP, van Doorn PA, Endtz HP, Nieuwenhuis EES, Jacobs BC.**

ANTIBODIES TO MYELIN ASSOCIATED GLYCOPROTEIN (MAG) IN IgM AMYLOIDOSIS DO NOT EXPLAIN NEUROPATHY

**Garces-Sanchez M, Dyck PJ, Kyle RA, Zeldenrust S, Wu Y, Plevak MF, Norell JE, Ladha SS, Klein CJ.**

PAINFUL SENSORY NEUROPATHY ASSOCIATED WITH ANTI-PHOSPHOLIPID ANTIBODY REACTIVITY

**Nascimento OJM, de Freitas MRG, Quintanilha G, Escada T.**

A PILOT RANDOMISED CONTROLLED TRIAL OF METHOTREXATE FOR CHRONIC INFLAMMATORY DEMYELINATING POLYRADICULONEUROPATHY (RMC TRIAL: RATIONALE AND PROTOCOL)

**Hughes RAC, Hadden RDM, Mahdi-Rogers M, Reilly MM, Winer JB, van Schaik IN, van Doorn PA, Léger J-M, Nobile-Orazio E, van den Bergh P; for the RMC Trial Group.**

REGULATION OF GENES FOR BONE MORPHOGENETIC PROTEINS IN SCHWANN CELLS BY CYCLIC ADENOSINE MONOPHOSPHATE IN VITRO

**Lisak RP, Bealmear BM, Benjamins JA, Yao B, Land S.**

MICRODELETION 17p11.2-12 HEREDITARY NEUROPATHY: A MORE SUITABLE NAME FOR HEREDITARY NEUROPATHY WITH LIABILITY TO PRESSURE PALSIES (HNPP)

**Conte A, Sabatelli M, Luigetti M, Madia F, Mereu ML, Zollino M, Tonali PA.**

LEG AND FOOT MAGNETIC RESONANCE IMAGING FEATURES OF CHARCOT-MARIE-TOOTH PATIENTS WITH MFN2 MUTATIONS

**Choi B-O, Cho SY, Hwang SJ, Choi K-G, Jo BH, Chung KW.**

GENETIC HETEROGENEITY IN PRIMARY ERYTHROMELALGIA AND INSENSITIVITY TO PAIN

**Klein CJ, Wu Y, Sandroni P, Davis MD, Klein DM, Dyck PJ.**

THE CMT-TRIAAL: A MULTICENTRE PLACEBO-CONTROLLED RCT OF ASCORBIC ACID IN CHARCOT-MARIE-TOOTH 1A DISEASE

**Pareyson D, Schenone A, Rizzuto N, Fabrizi GM, Santoro L, Quattrone A, Vita G, Padua L, Gemignani F, Visioli F, Calabrese D, Solari A; for the CMT-TRIAAL Group.**

GENETIC DIAGNOSIS FOR CMT DISEASE: LESSONS LEARNED

**van Ruissen F, Weterman MAJ, de Wissel M, Vreijling JP, Bagnay M, van der Knaap MS, de Visser M, Baas F.**

NONMYELINATING SCHWANN CELL INVOLVEMENT WITH WELL PRESERVED UNMYELINATED AXONS IN CMT1A

**Koike H, Oki Y, Kawagashira Y, Iijima M, Yamamoto M, Hattori N, Yoshikawa H, Sobue G.**

ALTERATIONS OF PERIPHERAL NERVE IN THE INAD MOUSE

**Yoshikawa H, Tatsumi Y.**

MITOCHONDRIAL DIMENSIONS IN AXONS OF CASES WITH GDAP1 AND MFN2 MUTATIONS

**Schröder JM.**

THREE NOVEL AND TWO KNOWN MITOFUSIN 2 GENE (MFN2) MUTATIONS AMONG 47 CZECH CHARCOT-MARIE-TOOTH TYPE 2 (CMT2) UNRELATED PATIENTS

**Haberlová J, Posádka J, Mazanec R, Seeman P.**

ADULT ONSET ATAXIC NEUROPATHY AS ISOLATED MANIFESTATION OF MITOCHONDRIOPATHY

**Pouget J, Azulay J-P, Uzenot D, Figarella-Branger D, Paquis V.**

THE HISTOPATHOLOGICAL FINDINGS IN HMSN OF AXONAL TYPE COMMENCING IN EARLY CHILDHOOD ASSOCIATED WITH MITOFUSIN2 MUTATIONS

**Vallat J-M, Ouvrier RA, Pollard JD, Magdelaine C, Zhu D, Nicholson GA, Grew S, Sturtz F, Ryan MM.**

CHARCOT'S JOINTS IN CMT1A

**Winer JB, Mockova M, Davies N.**

CONDITIONALLY IMMORTALIZED SCHWANN CELLS FROM WILDTYPE AND CMT1A MICE

**Saavedra JT, Wolterman R, Baas F, ten Asbroek ALMA.**

EVOLUTION OF QUALITY OF LIFE, DISABILITY AND CLINICAL PICTURE IN CHARCOT-MARIE-TOOTH 1A PATIENTS: A MULTICENTRE 2-YEAR FOLLOW-UP

**Padua L, Pareyson D, Aprile I, Cavallaro T, Quattrone A, Rizzuto N, Vita G, Tonali PA, Schenone A; for the Italian CMT QoL Study Group.**

ROLE OF THE P2X7 RECEPTOR IN THE ALTERED CALCIUM HOMEOSTASIS OF SCHWANN CELLS OVEREXPRESSING PERIPHERAL MYELIN PROTEIN 22

**Nobbio L, Bruzzone S, Usai C, Fiorese F, Sturla L, Moreschi I, Benvenuto F, Basile G, Zocchi E, De Flora A, Schenone A.**

COMPARTMENTALIZATION OF THE BASAL LAMINA-CYTOSKELETAL LINKAGE INFLUENCES HOW SCHWANN CELLS ELONGATE IN INHERITED NEUROPATHIES

**Court F, Hewitt JE, Patton BL, Wrabetz L, Feltri ML.**

AUTOSOMAL DOMINANT AND RECESSIVE DISTAL HEREDITARY MOTOR NEUROPATHY CAUSED BY MUTATIONS IN THE HEAT SHOCK PROTEIN 27

**Laurá M, Houlden H, Blake J, Reilly MM.**

ESTABLISHMENT OF THE AUSTRALASIAN PEDIATRIC CHARCOT-MARIE-TOOTH REGISTRY

**Burns J, Ouvrier RA, Nicholson GA, Ryan MM.**

THE NATURAL HISTORY OF SPINOBULBAR MUSCULAR ATROPHY

**Chahin N, Klein CJ, Mandrekar J, Sorenson EJ.**

CONGENITAL CATARACT, FACIAL DYSMORPHISM AND DEMYELINATING NEUROPATHY IN 10 CZECH ROMA GYPSY CHILDREN: FREQUENT AND UNDERESTIMATED CAUSE OF DISABILITY AMONG CZECH GYPSIES

**Seeman P, Šišková D, Haberlová J, Sakmaryová I, Filouš A.**

NEW NEFL GENE MUTATIONS IN TWO CZECH CMT FAMILIES WITH EARLY ONSET AXONAL NEUROPATHY

**Mazanec R, Vyhnálková E, Hühne K, Malíková M, Böhm J, Součková I, Šimurda J, Rautenstrauss B, Bojar M, Seeman P.**

DECOMPOSITION MOTOR UNIT NUMBER ESTIMATION IN CMT-1X AND CMT-1A

**Lewis RA, Hahn AF, Sheth S, Swan ER, Krajewski K, Shy ME, Doherty T.**

CLINICAL VARIABILITY IN NOVEL MFN2 MUTATIONS

**Baker SK, Hahn AF, Raha S, Ainsworth PJ.**

CMT2A FIBROBLASTS EXHIBIT SUBTLE CHANGES IN RESPIRATORY RATES

**Lawson VH, Lott P, Soto J, Boudina S, Abel ED.**

THE EFFECT OF COUNTING CRITERIA ON INTRAEPIDERMAL NERVE FIBER DENSITY ESTIMATES

**Smith AG, Pollari D, Tobias J, Sutton MA, Muhammad N, Babbar S, Chanda S, Bley KR.**

DEVELOPMENT OF A GUIDELINE ON PROCESSING AND EVALUATION OF NERVE BIOPSIES

**Sommer C, Brandner S, Dyck PJ, Lacroix C, Lammens M, Magy L, Mellgren SI, Morbin M, Navarro C, Powell HC, Schenone A, Tan E, Weis J, Harati Y.**

CHRONIC MULTIPLE NEUROPATHY IN B CELL-CHRONIC LYMPHOCYTIC LEUKEMIA: DRAMATIC THERAPEUTIC EFFECT OF RITUXIMAB

**Scontrini A, Bucci E, Latino P, Di Pasquale A, Fornasiero A, Clemenzi A, Morino S, Antonini G.**

MEDICAL STUDENTS REPORT HIGH LEVELS OF EMPATHY FOR SCIATICA BUT ONLY MODERATE INTEREST IN LEARNING ABOUT PERIPHERAL NEUROPATHY

**Murinson BB, Agarwal A, Haythornthwaite J.**

ACTIVATION OF ERBB2 RECEPTORS IN MICROGLIA FOLLOWING PERIPHERAL NERVE INJURY CONTRIBUTES TO THE DEVELOPMENT OF NEUROPATHIC PAIN

**Cavalo M, Zhu N, Grist J, McMahon SB, Bennett DLH.**

DULOXETINE AND PREGABILIN TREATMENT FOR PERIPHERAL NEUROPATHY AND OTHER PAIN SYNDROMES IN TERTIARY CARE NEUROLOGY CLINICS

**Pasnoor M, Syed K, Wang Y, Anderson H, McVey AL, Dubinsky R, Herbelin L, Gronseth G, Barohn RJ.**

CUTANEOUS DENERVATION IN PARKINSON'S DISEASE

**Nolano M, Provitera V, Estraneo A, Selim MM, Caporaso G, Stancanelli A, Saltalamacchia AM, Pagano A, Santoro L.**

FROM BENCH TO BEDSIDE: THE APPLICATION OF 830 NM LASER IN CHRONIC PAIN

**Chow RT, Armati PJ.**

CYTOKINE-INDUCED MATRIX METALLOPROTEINASES REGULATE MBP PROCESSING AND NEUROPATHIC PAIN IN PERIPHERAL NERVE

**Chattopadhyay S, Kobayashi H, Myers RR, Dolkas J, Shubayev V.**

NEAR-NERVE STUDIES OF SLOW CONDUCTING NERVE FIBRES IN POLYNEUROPATHY PATIENTS WITH AND WITHOUT PAIN

**Smith T, Sindrup SH.**

INCREASED EXPRESSION OF ERYTHROPOIETIN AND ITS RECEPTOR IN DORSAL ROOT GANGLIA OF AN ANIMAL MODEL FOR FAMILIAL AMYLOIDOTIC POLYNEUROPATHY: A NEUROPROTECTIVE MECHANISM?

**Ferreirinha F, Saraiva MJ.**

THE CONSEQUENCES OF TERMINAL SCHWANN CELL ABLATION AT THE MURINE NEUROMUSCULAR JUNCTION OBSERVED THROUGH IN VIVO IMAGING

**Morrison I, Li Y, Halstead SK, Thompson WJ, Willison HJ.**

THE PARANEOPLASTIC CRMP5 PROTEIN IS EXPRESSED IN PERIPHERAL NERVE AND INVOLVED IN SCHWANN CELLS IN NERVE REGENERATION

**Camdessanché J-P, Ferraud K, Lassablière F, Antoine J-C.**

ELECTROPHYSIOLOGICAL STUDIES IN PERIPHERAL NERVE FUNCTION WITH SUBACUTE MYELO-OPTICO-NEUROPATHY

**Matsumoto A, Tajima Y, Sasaki H.**

2:30 PM

### **Plenary Lecture 6**

#### **Nerve excitability in toxic and metabolic neuropathies**

**Matthew C. Kiernan**

3:00

### **Platform Session 5 (Electrophysiology, Diagnostic methods)**

*Chairs: Garth A. Nicholson and Peter Young*

AFM COMBINES FUNCTIONAL AND MORPHOLOGICAL ANALYSIS OF PERIPHERAL MYELINATED AND DEMYELINATED NERVE FIBERS

**Heredia A, Bui CC, Suter U, Schäffer TE, Young P.**

PMP22 INSUFFICIENCY AND CONDUCTION BLOCK

**Bai Y, Yuan Y, Shy ME, Suter U, Chou J, Li J.**

DIFFERENT SPTLC1 MUTATIONS IN HEREDITARY SENSORY NEUROPATHY TYPE 1 ARE ASSOCIATED WITH DISTINCT CLINICAL PHENOTYPES

**Spring PJ, Spies JM, Dawkins JL, Hulme D, Blair IP, Kennerson M, Nicholson GA.**

A COMPROMISED HEAT SHOCK RESPONSE INCREASES SYSTEMIC EXTRACELLULAR TRANSTHYRETIN DEPOSITION AND AFFECTS THE PERIPHERAL AND AUTONOMIC SYSTEMS: NEW MODEL FOR FAMILIAL AMYLOID POLYNEUROPATHY

**Santos SD, Saraiva MJ.**

	<p>ATROGIN-1 LEVELS AND AXONAL INTEGRITY ARE MAINTAINED AFTER CHRONIC NERVE COMPRESSION-INDUCED NERVE SPROUTING  <b><u>Mozaffar T, Strandberg EJ, Abe K, Cahill K, Hilgenberg LG, Smith MA, Gupta R.</u></b></p>
4:15	<b>Coffee Break</b>
4:45	<p><b>Platform Session 5</b> (continued) (Electrophysiology, Diagnostic methods)  <i>Chairs: Michael E. Shy and Jean-Michel Vallat</i></p> <p>PATHOLOGICAL AND ELECTROPHYSIOLOGICAL STUDIES OF NDRG1 MUTANT MICE  <b><u>King RHM, Blake J, Muddle JR, Orrell RW, Morahan G, Kalaydjieva L.</u></b></p> <p>IV ADMINISTRATION OF AAV5-IGF IMPROVES WEAKNESS OF HETEROZYGOUS MPZ MICE, THE ANIMAL MODEL OF LATE ONSET CMT1B  <b><u>Jani-Acsadi A, Ianakova E, Anguelov R, Acsadi G, Shy ME.</u></b></p> <p>RECEPTOR MEDIATED ENDOCYTOSIS IS INHIBITED IN LYMPHOBLASTS FROM CHARCOT-MARIE-TOOTH PATIENTS EXPRESSING MUTANT DYNAMIN II (K558E)  <b><u>Myers SJ, Malladi C, Kennerson M, Robinson P, Nicholson GA.</u></b></p>
5:30	<p style="text-align: center;"><b>Plenary Lecture 7</b>  <b>Richard P. Bunge Memorial Lecture</b>  <b>Myelin and axons: lessons from peripheral nerves</b>  <b>Ueli Suter</b></p>
7:00	<b>PNS Farewell Banquet</b>
	<b><u>WEDNESDAY</u></b>
7:30 AM	<p><b>Breakfast and Poster Session 4</b>  (PNS Board Meeting with New Board)</p>
8:30	<p style="text-align: center;"><b>Plenary Lecture 8</b>  <b>GBS/CIDP Foundation International Lecture</b>  <b>Signals that control Schwann cell development and myelination</b>  <b>Rhona Mirsky</b></p>
9:00	<p><b>Platform Session 6</b> (Inherited, Schwann cells)  <i>Chairs: Frank Baas and Lawrence G. Wrabetz</i></p> <p>NEUROPATHY-ASSOCIATED EGR2 MUTANTS DISRUPT COOPERATIVE ACTIVATION OF MYELIN PROTEIN ZERO BY EGR2 AND SOX10  <b><u>LeBlanc SE, Ward RM, Jang S-W, Svaren J.</u></b></p> <p>THE EFFECTS OF CMT2A MFN2 MUTATIONS ON MITOCHONDRIA IN PATIENT-DERIVED FIBROBLASTS AND THE YEAST MITOFUSIN HOMOLOG FZO1  <b><u>Amiott EA, Lott P, Kang PB, Flanigan K, Lawson VH, Shaw J.</u></b></p> <p>ANALYSIS OF THE MOLECULAR PATHOGENESIS OF UPR IN CMT1B MICE  <b><u>D'Antonio M, Musner N, Pennuto M, Tinelli E, Feltri ML, Quattrini A, Wrabetz L.</u></b></p>

	<p>COPYNUMBER ALTERATIONS OF TEK3 IN CHARCOT-MARIE-TOOTH DISEASE  <b>Weterman MAJ, van Ruissen F, de Wissel M, Bordewijk L, Hoogendijk JE, Samijn J, Meggouh F, Baas F.</b></p> <p>MpzR98C MICE ARE A MODEL FOR EARLY-ONSET CMT1B  <b>Shy BR, Ferri C, Southwood CM, Pennuto M, Li J, Wu X, Feltri ML, Gow A, Shy ME, Wrabetz L.</b></p>
10:15	<p><b>Coffee Break</b></p>
10:45	<p><b>Platform Session 6</b> (continued) (Inherited, Development)  <i>Chairs: Davide Pareyson and Zarife Sahenk</i></p> <p>CHARCOT-MARIE-TOOTH TYPE 1A: A 5-YEAR NATURAL HISTORY STUDY  <b>Verhamme C, van Schaik IN, Koelman JHTM, de Haan RJ, Vermeulen M, de Visser M.</b></p> <p>LIPIN1-REGULATED LIPID METABOLISM IS ESSENTIAL FOR SCHWANN CELL MYELINATION  <b>Nadra K, de Preux A-S, Médard J-J, Han G-S, Grès S, Carman GM, Saulnier-Blache J-S, Chrast R.</b></p> <p>ROLES OF ADHESION INTERFACE AND NOVEL DISULFIDE IN MYELIN INSTABILITY AND PACKING DEFECTS IN MPZS63C TRANSGENIC MICE  <b>Avila RL, Inouye H, D'Antonio M, Feltri ML, Wrabetz L, Kirschner DA.</b></p> <p>HMSN OF AXONAL TYPE COMMENCING IN EARLY CHILDHOOD (EOHMSNA) – FROM THE CLINICAL SYNDROME TO THE GENE  <b>Grew S, Ryan MM, Magdelaine C, Zhu D, Vallat J-M, Sturtz F, Nicholson GA, Ouvrier RA.</b></p> <p>IDENTIFICATION OF THE <i>claw paw</i> MUTATION REVEALS A ROLE FOR Lgi4 IN PERIPHERAL NERVE DEVELOPMENT  <b>Birmingham JR Jr, Shearin H, Pennington J, O'Moore J, Jaegle M, Driegen S, van Zon A, Darbas A, Özkaynak E, Ryu E, Milbrandt J, Meijer D.</b></p>
12:00 Noon	<p><b>Lunch and Poster Session 4</b>  <i>(Posters from Session 3 also on display)</i></p> <p>HIGH GLUCOSE CONCENTRATION DOES NOT INDUCE OXIDATIVE STRESS OR KILL CULTURED ADULT SENSORY NEURONS  <b>Zherebitskaya E, Fernyhough P.</b></p> <p>METABOTROPIC GLUTAMATE RECEPTOR AGONISTS PREVENT EARLY NEUROPATHY IN DIABETIC ANIMALS  <b>Anjaneyulu M, Berent-Spillson A, Inoue T, Morrow T, Russell JW.</b></p> <p>CHARACTERISTICS OF DIABETIC NERVES PRESENTING EXTREMELY SLOW CONDUCTION  <b>Hasegawa O, Kawasaki S, Matsumoto S.</b></p> <p>LIGHT AND TRANSMISSION ELECTRON MICROSCOPY STUDIES OF THE SYMPATHETIC RENAL NERVES IN CHRONIC DIABETIC WISTAR RATS  <b>Sato KL, do Carmo JM, Fazan VPS.</b></p>

TREATMENT OF PARAPROTEINEMIC PERIPHERAL NEUROPATHY WITH RITUXIMAB  
**Smith BE, Bosch EP, Suarez GA, Witzig TE, Stevens JC, Dyck PJB, Fonseca R, Hentz JG.**

ACUTE SENSORY ATAXIC NEUROPATHY WITH ANTIBODIES TO GD1B AND GQ1B  
GANGLIOSIDES AND PROMPT RECOVERY  
**Notturmo F, Caporale CM, Uncini A.**

LOVASTATIN ATTENUATES NERVE INJURY IN AN ANIMAL MODEL OF GUILLAIN-  
BARRÉ SYNDROME  
**Sarkey JP, Richards MP, Stubbs EB Jr.**

AUTONOMIC DYSFUNCTION IN GUILLAIN-BARRÉ SYNDROME  
**Ruts L, Jacobs BC, van Doorn PA.**

HMGB1 IN VASCULITIS NEUROPATHY: CLINICAL AND NEUROPATHOLOGY  
CORRELATIONS  
**Scarlato M, Cerri F, Dacci P, Grassi S, Fazio R, Previtali SC, Comi G,  
Quattrini A.**

AN UNUSUAL PRESENTATION OF MULTIFOCAL MOTOR NEUROPATHY  
**Carpo M, Scarlato M, Saccomanno D, Barbieri S, Bersano A, Allaria S,  
Bresolin N, Comi GP.**

MANAGEMENT OF MULTIFOCAL MOTOR NEUROPATHY IN FRANCE IN 2005: A  
NATIONAL OPINION SURVEY  
**Puget S, Bonnélye G, Beudet R, Léger J-M.**

MTMR2 PHOSPHOLIPID PHOSPHATASE AND MEMBRANE TRAFFICKING IN  
SCHWANN CELLS  
**Bolis A, Coviello S, Galbiati C, Quattrini A, Bolino A.**

QUANTIFICATION OF MOTONEURON LOSS IN CHARCOT-MARIE-TOOTH DISEASE:  
IN VIVO RETROGRADE LABELLING OF SCIATIC NERVE MOTONEURONS IN  
PMP22(0/0) AND PMP22(TG) MICE  
**Nattkaemper H, Lohmann C, Suter U, Young P.**

TWO POINT MUTATIONS IN LINKED GENES LPIN1 AND NRCAM ARE RESPONSIBLE  
FOR THE PERIPHERAL NEUROPATHY PHENOTYPE OF THE ENU MUTAGENIZED  
MOUSE STRAIN 20884  
**Douglas DS, Moran J, Bermingham JR Jr, Beier D, Popko B.**

HEREDITARY AXONAL NEUROPATHIES IN AN ITALIAN POPULATION: MOLECULAR  
ANALYSIS OF MITOFUSIN 2 GENE (MFN2) AND SMALL HEAT SHOCK PROTEIN  
GENES (HSP27 AND HSP22)  
**Bellone E, Varese A, Geroldi A, Acquaviva M, Grandis M, Ciotti P, Gulli R,  
Doria-Lamba L, Schenone A, Mandich P.**

MUTATION OF THE SMALL HSP27/HSPB1 CAUSES CMT NEUROPATHY WITH  
ABNORMAL NEUROFILAMENT ASSEMBLY  
**Cerri F, Coviello S, Previtali SC, Benedetti S, Scarlato M, Dacci P, Fazio R,  
Comi G, Quattrini A, Bolino A.**

WALKING ENDURANCE AND PROXIMAL COMPENSATION FOR DISTAL WEAKNESS  
IN CHARCOT MARIE TOOTH DISEASE  
**Ramdharry GM, Day BL, Reilly MM, Marsden JF.**

INCREASED SEVERITY OVER GENERATIONS OF CHARCOT-MARIE-TOOTH DISEASE TYPE 1A

**Steiner I, Gotkine M, Steiner-Birmanns B, Biran I, Silverstein S, Abeliovich D, Argov Z, Wirguin I.**

THE SPECTRUM OF FINE STRUCTURAL CHANGES DUE TO TWO NOVEL AND OTHER WELL KNOWN MPZ MUTATIONS

**Schröder JM, Vitt C, Senderek J, Schara U, Mortier W, Klein W, Weis J.**

CMT1A NEUROPATHY FAMILIES CAUSED BY PARTIAL DUPLICATION OF 17p11.2-p12

**Kim J, Jo BH, Cho SY, Choi B-O, Chung KW.**

PROGESTERONE, PREGNANCY AND CHARCOT MARIE TOOTH DISEASE TYPE 1A

**Swan ER, Fuerst DR, Shy ME.**

A BRAZILIAN FAMILY WITH CMT2/dHMN AND ANTICIPATION

**Marques W Jr, Marques VD.**

AXONAL LOSS IN NEUROFIBROMATOSIS I (NF1)

**Li J, Garbern J.**

MOLECULAR DIAGNOSIS OF CMT1A DUPLICATION BY HEXAPLEX MICROSATELLITE PCR

**Park SW, Hwang JH, Hwang SJ, Choi B-O, Chung KW.**

SMALL NERVE FIBER INVOLVEMENT IN PATIENTS WITH FABRY'S DISEASE

**He L, Üçeyler N, Breunig F, Sommer C.**

INTERMEDIATE FORM OF CHARCOT-MARIE-TOOTH WITH A NEW SINGLE NUCLEOTIDE DELETION OF PMP 22 GENE

**Luigetti M, Sabatelli M, Zollino M, Conte A, Madia F, Mereu ML, Marangi G, Pomponi MG, Tonali PA.**

CELLULAR AND MOLECULAR DIFFERENCES BETWEEN EARLY AND LATE ONSET MYELIN PROTEIN ZERO MUTATIONS

**Grandis M, Vigo T, Jain M, La Padula V, Scazzola S, Passalacqua M, Benvenuto F, Kamholz J, Shy ME, Schenone A.**

MUTATIONS IN MITOFUSION 2 IN UK CMT PATIENTS

**Laurá M, Gibbons VS, Sweeney MG, Davis MB, Reilly MM.**

CMT1B-CAUSING MYELIN PROTEIN ZERO MUTATIONS RESULT IN DIVERSE INTRACELLULAR PATHOMECHANISMS

**Brucal MJ, Chalasani A, Shy ME, Kamholz J.**

POSTGANGLIONIC SUDOMOTOR, ADRENERGIC AND CARDIOVAGAL ABNORMALITIES ARE COMMON IN HEREDITARY SENSORY AND AUTONOMIC NEUROPATHY TYPE I AND DO NOT PREDICT MUTILATING INJURY

**Mauermann ML, Dyck PJ, Low PA, Klein CJ.**

AXONAL AND MYELIN DEFECTS IN KCC3 NULL MICE LEAD TO EARLY ONSET PERIPHERAL NEUROPATHY

**Byun N, Delpire E.**

CHARCOT-MARIE-TOOTH TYPE 2D: MUTATION IN GLYCYL-TRNA SYNTHETASE (GARS) MODELED IN MICE

**Burgess RW, Nangle LA, Schimmel P, Seburn KS.**

EARLY-ONSET BRAIN LESION CAUSED BY MUTATIONS IN MITOFUSIN 2

**Hwang SJ, Cho SY, Choi K-G, Hwang JH, Chung KW, Choi B-O.**

DEMYELINATING AND AXONAL FEATURES OF CHARCOT-MARIE-TOOTH DISEASE: A MAGNETIC RESONANCE IMAGING STUDY OF 60 PATIENTS

**Cho SY, Hwang SJ, Hwang JH, Chung KW, Choi K-G, Choi B-O.**

IMPACT OF CHARCOT-MARIE-TOOTH DISEASE ON QUALITY OF LIFE IN CHILDREN

**Burns J, Ryan MM, Ouvrier RA.**

PLATINUM ADDUCT FORMATION IN MITOCHONDRIAL DNA MAY UNDERLIE THE PHENOMENON OF COASTING

**Podratz JL, Schlattau AW, Chen M, Knight AM, Windebank AJ.**

CAN WE RELIABLY QUANTIFY FOOT AND ANKLE MUSCLE STRENGTH IN VERY YOUNG CHILDREN?

**Rose KJ, Burns J, Ouvrier RA, Ryan MM, North KN.**

MOTOR NEURON PROTECTION BY VASCULAR ENDOTHELIAL GROWTH FACTOR

**Sakowski SA, Lunn JS, Kim B, Feldman EL.**

UNUSUAL DIAGNOSTIC AND THERAPEUTIC APPLICATIONS IN PERIPHERAL NERVE SONOGRAPHY

**Créteur V, Ceccoli A, Peetrons P.**

CLINICAL FEATURES OF PAINFUL NEUROPATHIES: FROM SYMPTOMS TO NEUROPATHOLOGY

**Melli G, Devigili G, Penza P, Broglio L, Camozzi F, Tugnoli V, Granieri E, Lauria G.**

NEUROPATHIC ITCHING SYNDROME: A PRELIMINARY STUDY

**Devigili G, Tugnoli V, De Gennaro R, Lupato A, Casetta I, Quatrala R, Tola MR, Lauria G, Granieri E.**

REPRODUCIBILITY INDICES OF PAIN THRESHOLDS ASSESSED WITH NOVEL ELECTRIC STIMULUS

**DiDuro JO.**

MODULATION OF SPONTANEOUS ACTIVITY IN THE RAT SAPHENOUS NERVE NEUROMA IN VITRO WITH SODIUM CHANNEL BLOCKERS

**Paré M, Perkins MN, Cao CQ.**

ANALGESIC EFFECT OF TRANSDERMAL BUPRENORPHINE IN PATIENTS WITH UNCONTROLLED PAINFUL NEUROPATHY

**Penza P, Maggi L, Martini A, Campanella A, Lauria G.**

MORPHOMETRIC EVALUATION OF CUTANEOUS MYELINATED FIBERS IN SMALL FIBER NEUROPATHIES

**Provitara V, Nolano M, Caporaso G, Stancanelli A, Pagano A, Lanzillo B, Santoro L.**

STIMULATED GROWTH OF NORMAL HUMAN AND PIG EPIDERMAL NERVE FIBERS BY TAPE STRIPPING

**Selim MM, Wabner KA, Wendelschafer-Crabb G, Kennedy WR.**

A CAPSAICIN MODEL OF AUTONOMIC NERVE FIBER DEGENERATION AND REGENERATION

**Gibbons C, Centi J, Freeman R.**

INVESTIGATION OF INTERCELLULAR CONTACTS OF LIVING SCHWANN CELLS BY ATOMIC FORCE MICROSCOPY

**Kleffner I, Boecker M, Boentert M, Heredia A, Bui CC, Schäffer TE, Young P.**

EFFECT OF POLYMER COMPOSITION ON RELEASE KINETICS OF NERVE GROWTH FACTOR FROM POLYLACTIC-CO-GLYCOLIC ACID MICROSPHERES

**de Boer R, Knight AM, Malessy MJA, Spinner RJ, Yaszemski MJ, Windebank AJ.**

SCHWANN CELLS SECRETE A FACTOR THAT INDUCES A STRESS RESPONSE IN ASTROCYTES

**Santos-Silva A, Fairless R, Barnett SC.**

2:30 PM

**Departure or CMT Meeting**