

# 2021 PNS ANNUAL MEETING

*Virtually Anywhere.*

12-13 JUNE / 25-27 JUNE 2021



# PROGRAM

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# WELCOME

On behalf of the Peripheral Nerve Society, please let me welcome you to the 2021 Annual Meeting – *Virtually Anywhere*.

The PNS Annual Meeting continues to be the premier meeting for learning about advances in peripheral neuropathy and peripheral nerve biology. The Program Committee has organized a spectacular virtual meeting with the traditional mixture of carefully selected plenary lectures, oral platforms, and oral posters, as well as symposia that were organized by the special interest groups — Charcot-Marie-Tooth and Related Neuropathies Consortium (CMTR), the Inflammatory Neuropathy Consortium (INC), the International Diabetes Neuropathy Consortium (IDNC), Neuropathic Pain Consortium (NPC) and the Toxic Neuropathy Consortium (TNC). We will also continue the innovative clinical science highlights session on Sunday, 27 June.



New this year, we are hosting coffee chat discussions on a variety of topics of interest to PNS Members and guided poster hall tours. **Participation in the coffee chats and poster hall tours is first come, first serve and limited to 50 people.** Please arrive early to guarantee your spot. We look forward to you being part of it.

Please join us for our Kick Off Event, which will feature a compilation of videos from PNS Members around the globe. We also invite our Junior Members to take part in the Education Course and Career Development Lunch on Saturday, 12 June.

I encourage all of you also to attend the PNS Annual General Meeting on Saturday, 26 June at 11.30 EDT (US and Canada). Your input is valuable, as we discuss the current business and the future of the PNS.

I want to personally thank especially the Scientific Program Committee, PNS Board, staff, our sponsors and everyone who has generously donated their time and efforts to put together the outstanding program of the meeting. I very much hope you will enjoy the 2021 PNS Annual Meeting – *Virtually Anywhere*, and hope to see you there.

A handwritten signature in black ink, appearing to read 'Pieter van Doorn'. Below the signature is a short horizontal line.

Pieter van Doorn, MD, PhD  
President, Peripheral Nerve Society

# PNS LEADERSHIP AND PROGRAM ORGANIZERS

## OFFICERS

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**Michael Shy, MD**, *University of Iowa, Carver College of Medicine, Iowa City, Iowa, USA*

## INFLAMMATORY NEUROPATHY CONSORTIUM REPRESENTATIVE

**Peter Van den Bergh, MD, PhD, FEAN, FAAN**, *University Hospitals St-Luc, Brussels, Belgium*

## INTERNATIONAL DIABETES NEUROPATHY CONSORTIUM REPRESENTATIVE

**James Russell, MD**, *University of Maryland School of Medicine, Baltimore, MD, USA*

## NEUROPATHIC PAIN CONSORTIUM REPRESENTATIVE

**Daniela Maria Menichella, MD, PhD**, *Northwestern University, Chicago, IL, USA*

## TOXIC NEUROPATHY CONSORTIUM REPRESENTATIVE

**Guido Cavaletti, MD**, *University of Milano-Bicocca, Monza (I), Milan, Italy*

## JPNS EDITOR IN CHIEF

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## JUNIOR COMMITTEE REPRESENTATIVE

**Luuk Wieske, MD, PhD**, *Amsterdam University, Amsterdam, Netherlands*



# PNS LEADERSHIP AND PROGRAM ORGANIZERS

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**Michael Shy, MD**, *University of Iowa, Carver College of Medicine, Iowa City, Iowa, USA*  
**Pieter van Doorn, MD, PhD**, *Erasmus MC University Medical Center, Rotterdam, Netherlands*  
**Luuk Wieske, MD, PhD**, *Amsterdam University, Amsterdam, Netherlands*

## JUNIOR COMMITTEE

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**Doug Wright, PhD**, *University of Kansas Medical Center, Kansas City, KS, USA*

# MEMBERSHIP INFORMATION



We invite you to join the Peripheral Nerve Society (PNS). The Society is dedicated to improving the lives of people with peripheral neuropathies throughout the world. Becoming a member of PNS means collaborating with prominent global professionals in the field to develop and provide the best treatments for people with peripheral nerve diseases and setting standards of care within the field. PNS provides annual meetings, in-person and online teaching courses, guidelines, and other resources to aid in the education of members.

Membership in the Peripheral Nerve Society is open to any professional with interest in disorders of the peripheral nervous system. Our membership includes clinicians, academicians, basic and clinical scientists, members of industry and representatives from neuropathy organizations.

## **MEMBERSHIP BENEFITS:**

- Online subscription to *Journal of the Peripheral Nervous System (JPNS)*
- On-Demand Education Center Access
- Online Communities Forum Access
- PNS Membership Directory Access
- Member Only Job Postings
- Special Interest Group Memberships
- Volunteer & Leadership Opportunities
- Discounted Meeting & Event Registration Rates

Visit [www.PNSociety.com](http://www.PNSociety.com) for information on membership dues categories, rates, and to join today. Please note, PNS extends a membership discount to those joining the PNS from low-income and middle-income economies (GNI per capita of \$12,535 or less).

## ABOUT THE SOCIETY

The Peripheral Nerve Society (PNS) was founded in 1994 from two groups of academic investigators, Peripheral Nerve Study Group and Peripheral Neuropathy Association of America, interested in the basic biology and function of the peripheral nervous system and its application to the clinic. Their invite-only, biennial meetings involved 80-125 attendees in cloistered settings organized by shoestring and local initiative. From this, we have grown remarkably. We now have an annual meeting of over 1000 people including meetings within the meeting for the special interest groups in inflammatory, diabetic, toxic, pain, and hereditary neuropathy. With this substantial growth and the success of *JPNS, the Journal of the Peripheral Nervous System*, the Society continues to flourish. [Please click here to view past meetings of the PNS.](#)

Please participate in our future by joining the PNS, volunteering for a project aligned with your interests and sending your ideas for the future to the Executive Office, or a Board Member.

### CONTACT US

info@PNSociety.com | [www.PNSociety.com](http://www.PNSociety.com) | +1-952-545-6284

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# PROGRAM AT A GLANCE

**\*\* All times listed in EDT (US & Canada)**

**Start time: 6.00 PDT | 8.00 CDT | 9.00 EDT | 14.00 BST | 15.00 CEST | 21.00 CST | 23.00 AEST**

## SATURDAY 12 JUNE 2021

- 9.00-16.00 **Education Course**
- 9.00 **Welcome Address**  
Pieter van Doorn, MD, PhD, *PNS President*
- 9.10 **Peripheral Pain Processing**  
Stephen McMahon, PhD
- 9.50 **Peripheral Neuropathy in Complex Genetic Diseases: Approach to Diagnosis**  
Alex Rossor, PhD, MBBS, MRCP
- 10.30 **The Node of Ranvier: Latest and Breaking News**  
Jérôme Devaux, PhD
- 11.10 **Established and Emerging Outcome Measures for Hereditary Neuropathy**  
Michael Shy, MD
- 12.00-13.00 **Career Development Lunch**  
*PRE-REGISTRATION REQUIRED*
- 13.00-13.10 **Break**
- 13.10 **Mechanisms in Diabetic Neuropathy: An Update**  
Eva Feldman, MD
- 13.50 **Arbovirus Infections and the Peripheral Nervous System**  
Sonja Leonhard, MD, PhD Candidate
- 14.30 **Clinical Case Presentations**

## SUNDAY 13 JUNE 2021

- 9.00-9.30 **Coffee Chats** *NETWORKING EVENT*
- 9.30-10.00 **PNS Kick-Off Event**
- 10.00-15.00 **Special Interest Group (SIG) Concurrent Sessions**

### CHARCOT-MARIE-TOOTH & RELATED NEUROPATHIES CONSORTIUM (CMTR)

- 10.00 **Welcome**  
Michael Shy, MD, *CMTR Chair*
- 10.05 **Molecular Targets and Biomarkers in Inherited Peripheral Neuropathies**  
Rita Horvath, MD, PhD
- 10.35 **Regulation of Axon Stability by Metabolic Coupling to Schwann Cells**  
Bogdan Beirovski, MD, PhD
- 11.05 **The Identification and Clinical Spectrum of RFC1 and Other Expansions Associated with Inherited Neuropathies**  
Henry Houlden, MD, PhD
- 11.35 **Familial Amyloid Polyneuropathy**  
Márcia Waddington-Cruz, MD, PhD
- 12.05 **Closing Remarks**  
Michael Shy, MD, *CMTR Chair*

### INTERNATIONAL DIABETES NEUROPATHY CONSORTIUM (IDNC)

- 10.00 **Welcome**  
James Russell, MD, *IDNC Chair*
- 10.05 **Using RNA Sequencing on Human Peripheral Nerves to Understand Mechanisms Driving Painful Neuropathies**  
Theodore Price, PhD
- 10.50 **Sodium Channelopathies in Painful Small Fiber and in Painful Diabetic Peripheral Neuropathy**  
Catharina Faber, MD, PhD
- 11.35 **Oral Poster Presentations**
- 12.05 **Closing Remarks**  
James Russell, MD, *IDNC Chair*

### TOXIC NEUROPATHIES CONSORTIUM (TNC)

- 10.00 **Welcome**  
Guido Cavaletti, MD, *TNC Chair*
- 10.05 **Metabolomics: A Tool for Neurological Research**  
Debra J. Skene, PhD
- 10.35 **Chemotherapy-Induced Peripheral Neuropathy (CIPN): Characteristics, Patterns and Outcomes Across the Lifespan**  
Ellen Lavoie Smith, PhD, MSN, RN, AOCN(R), FAAN
- 11.05 **Debate – Different Perceptions of CIPN**  
Ahmet Hoke, MD, PhD  
Karin Jordan, MD
- 12.05 **Closing Remarks**  
Guido Cavaletti, MD, *TNC Chair*

12.15-12.45 **Break**

### INFLAMMATORY NEUROPATHY CONSORTIUM (INC)

- 12.45 **Welcome**  
Peter Van den Bergh, MD, PhD, FEAN, FAAN, *INC Chair*
- 12.50 **Update on Neuralgic Amyotrophy**  
Nens van Alfen, MD, PhD
- 13.20 **The Role of Fc Receptors in Inflammatory Neuropathy: Emerging Targets for Novel Therapies**  
Kazim Sheikh, MD
- 13.50 **Pathology of Early Guillain-Barré Syndrome**  
Jose Berciano, PhD
- 14.20 **Beyond Immunoglobulin and Steroids in CIDP: What Can We Learn from Other Diseases?**  
Stephen W. Reddel, PhD
- 14.50 **Closing Remarks**  
Peter Van den Bergh, MD, PhD, FEAN, FAAN, *INC Chair*

(continued)



# PROGRAM AT A GLANCE

**\*\* All times listed in EDT (US & Canada)**

**Start time: 6.00 PDT | 8.00 CDT | 9.00 EDT | 14.00 BST | 15.00 CEST | 21.00 CST | 23.00 AEST**

## SUNDAY 13 JUNE 2021 (cont.)

### NEUROPATHIC PAIN CONSORTIUM (NPC)

- 12.45 **Welcome**  
Daniela Menichella, MD, PhD, *NPC Chair*
- 12.50 **Human iPSC-derived Sensory Neurons to Study Painful Peripheral Neuropathy**  
Angelika Lampert, MD
- 13.35 **Neuropathic Pain Development in the Aged**  
Michael Burton, PhD
- 14.20 **Oral Poster Presentations**
- 14.50 **Closing Remarks**  
Daniela Menichella, MD, PhD, *NPC Chair*

## FRIDAY 25 JUNE 2021

- 9.00-9.30 **Coffee Chats** NETWORKING EVENT
- 9.30-10.00 **Peter J Dyck Lecture**  
**Mechanisms of Cutaneous Pain Sensation**  
Michael Caterina, MD, PhD
- 10.00-11.30 **Platform Session I**
- 11.30-12.00 **Break**
- 12.00-12.30 **Richard Bunge Lecture**  
**Signals to Schwann Cells During Myelination and Peripheral Neuropathies**  
Laura Feltri, MD
- 12.30-13.00 **Oral Poster Session I**
- 13.00-14.00 **Guided Poster Hall Tours**

## SATURDAY 26 JUNE 2021

- 9.00-9.30 **Coffee Chats** NETWORKING EVENT
- 9.30-10.00 **Arthur K Asbury Lecture**  
**Antisense Therapies for Neurological Diseases**  
Frank Bennett, PhD
- 10.00-11.30 **Platform Session II**
- 11.30-12.00 **PNS Annual General Meeting**  
*(all are welcome)*
- 12.00-12.30 **Jack Griffin Lecture**  
**The Molecular Mechanism of Axon Degeneration: SARM1 as a Druggable Target for the Prevention of Peripheral Neuropathy**  
Aaron Diantonio, MD, PhD
- 12.30-13.00 **Oral Poster Session II**
- 13.00-14.00 **Guided Poster Hall Tours**

## SUNDAY 27 JUNE 2021

- 9.00-9.30 **Coffee Chats** NETWORKING EVENT
- 9.30-10.00 **PK Thomas Lecture**  
**Genetics of Hereditary Spastic Paraplegia — Overlap Between Central and Peripheral Axonopathies**  
Rebecca Schüle, MD
- 10.00-11.30 **Platform Session III**
- 11.30-12.00 **Break**
- 12.00-12.30 **Pembroke Lecture**  
**Primary Mitochondrial Neuropathies**  
Michio Hirano, MD
- 12.30-14.00 **Richard A.C. Hughes Session**  
**Clinical Science Highlights**
- 14.00-14.30 **Awards Ceremony & Closing Remarks**  
Richard Lewis, MD, *PNS President-Elect*

# GENERAL INFORMATION

## TECHNICAL SUPPORT

### **PNS HOTLINE:**

**+1 (443) 640-6926**

Saturday, 12 June 8.00-16.00 EDT (US & Canada)

Sunday, 13 June 8.00-15.00 EDT (US & Canada)

Friday, 25 June 8.00-14.00 EDT (US & Canada)

Saturday, 26 June 8.00-14.00 EDT (US & Canada)

Sunday, 27 June 8.00-14.00 EDT (US & Canada)

### **GENERAL TECHNICAL SUPPORT:**

**+1 (410) 638-9239**

Monday - Friday, 9.00-21.00 EDT (US & Canada)

## CERTIFICATE OF ATTENDANCE

Your certificate will be emailed to you after the meeting with the program evaluation form.

## SPEAKER READY & GREEN ROOMS

All speakers must join the virtual speaker ready or 'green room' 30-minutes prior to your presentation start time. The production team will perform a quick tech check and provide a link to join your live stream channel. Contact [meetings@PNSociety.com](mailto:meetings@PNSociety.com) if you do not receive the link to the speaker ready room the week of your presentation.

**Note:** All speaker designations and affiliations have been listed in the program, as submitted by the presenter.

## ATTENDEE MESSAGE BOARD

We encourage attendees to interact and network with one another throughout the conference via the attendee message board. Here is how the attendee message board works.

1. The messages sent through the attendee popup message board are private between the two attendees.
2. When an attendee receives a chat message, a badge notification displays on the 'networking' card on the My Experience page.
3. Attendees may filter the attendee list page by name, organization, or geographical location to only display other attendees they are chatting with.

## MY EXPERIENCE PAGE

Visit the 'My Experience' page to update your profile, to view important technical support information or conduct a system check. This is also where you may view those attendees, sessions, posters, and/or exhibit booths you have marked as a favorite.

# GENERAL INFORMATION

Share your excitement about the PNS Annual Meeting using **#PNS2021** on [Twitter](#) and [Facebook](#).

## VIRTUAL EXHIBIT HALL

Please visit our virtual exhibit hall to interact via instant message and video chat with our exhibitors. Please note, some exhibitors are only available by direct message and are not participating in video chat. While there are not assigned exhibit hours, exhibitors have been asked to be available during program breaks.

## VIRTUAL POSTER HALL GALLERY & GUIDED TOURS

The virtual poster hall gallery is open throughout the dates of the meeting. Visit the gallery to view posters on display and chat with the authors. **New this year**, the PNS will host Guided Virtual Poster Hall Tours. Two senior tour guides will facilitate the discussion for each poster tour. Tour participation is first come, first serve, and limited to **50 participants per tour**. Arrive early to guarantee a spot. The goal of the Guided Virtual Poster Hall Tours is to increase interaction amongst meeting delegates and find commonalities among posters representing cross-specialties of peripheral neuropathy.

## COFFEE CHATS

**New this year**, the PNS will host 'Coffee Chat' networking events on a variety of topics of interest to PNS Members. Participation is first come, first serve, and limited to **50 participants per chat room**. Arrive early to guarantee a spot.

## PNS' DISCLAIMER POLICY

The primary purpose of the Annual Meeting and the PNS On-Demand Education Center is to meet the educational needs of its members and address practice gaps by providing practice-oriented and scientifically based educational activities that will maintain and advance competence and performance in the field of peripheral nerve. A diversity of opinions exists in the medical field and the views of the Annual Meeting faculty do not represent those of the PNS or constitute endorsement by the PNS. The PNS disclaims any and all liability for the claims that may result from the use or non-use of information, publications, therapies, and/or services discussed at the Annual Meeting.

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This program would not be possible without their support.*

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## GENERAL SPONSOR



## PATIENT ADVOCACY GROUPS (PAGS)



## INDUSTRY SPONSORED SYMPOSIA

We invite you to join each of our Annual Partner's for their industry sponsored symposium. Please register online by visiting [www.PNSociety.com](http://www.PNSociety.com).

Pfizer Symposium	28 June 2021 at 11.00 EDT (US and Canada)
Takeda Symposium	14 September 2021 at 11.00 EST (US and Canada)
Grifols Symposium	2 November 2021 at 11.00 EST (US and Canada)



# PROGRAM – SATURDAY 12 JUNE 2021

All times listed in EDT (US & Canada)

Start time: 6.00 PDT | 8.00 CDT | 9.00 EDT | 14.00 BST | 15.00 CEST | 21.00 CST | 23.00 AEST

9.00-9.10



## Welcome Address

**Pieter van Doorn, MD, PhD**  
PNS President

9.10-12.00

## Education Course

**Chairs: Rhona McGonigal, PhD**, University of Glasgow, Glasgow, UK and  
**Vera Fridman, MD**, University of Colorado Anschutz Medical Campus,  
Aurora, CO, USA

9.10



## Peripheral Pain Processing

**Stephen McMahon, PhD**  
Kings College London, London, United Kingdom

9.50



## Peripheral Neuropathy in Complex Genetic Diseases: Approach to Diagnosis

**Alexander Rossor, PhD, MBBS, MRCP**  
Queen Square Institute of Neurology, University College London,  
London, United Kingdom

10.30



## The Node of Ranvier: Latest and Breaking News

**Jérôme Devaux, PhD**  
Institute de Neurosciences de Montpellier,  
U1051 INSERM, Montpellier, France

11.10



## Established and Emerging Outcome Measures for Hereditary Neuropathy

**Michael Shy, MD**  
Carver College of Medicine, University of Iowa,  
Iowa City, Iowa, USA

12.00-13.00

## Career Development Lunch (PRE-REGISTRATION REQUIRED)

Hosted by the PNS Junior Committee, the goal of this event is to provide PNS Junior Members with an opportunity to virtually discuss funding opportunities, career paths, and more in a small group setting with senior experts in the peripheral nerve field.

[Please click here to register.](#)

# PROGRAM – SATURDAY 12 JUNE 2021

## 13.10-14.30 Education Course continued

**Chairs:** Luuk Wieske, MD, PhD, Amsterdam University, Amsterdam, Netherlands and Kathryn Moss, PhD, Johns Hopkins School of Medicine, Baltimore, Maryland, USA

13.10



### Mechanisms in Diabetic Neuropathy: An Update

**Eva Feldman, MD, PhD**

University of Michigan Department of Neurology Ann Arbor, Michigan, USA

13.50



### Arbovirus Infections and the Peripheral Nervous System

**Sonja E. Leonhard, MD, PhD Candidate**

Erasmus MC, Rotterdam, The Netherlands

## 14.30-16.00 Clinical Case Presentations

**Chairs:** Luuk Wieske, MD, PhD, Amsterdam University, Amsterdam, Netherlands and Kathryn Moss, PhD, Johns Hopkins School of Medicine, Baltimore, Maryland, USA

14.30

### A Rare Cause of Mononeuropathy Multiplex

**Timothy Fullam, MD,** The University of Kansas Medical Center, Kansas City, Kansas, USA

14.45

### B2M Related Hereditary Systemic Amyloidosis: A Case Report

**Eduardo Uchôa Cavalcanti, MD, MSc,** Rede Sarah - Unidade Lago Norte, Brasília, Brazil

15.00

### Acute Flaccid Paralysis: Consider Tick-Borne Encephalitis Virus, Even In Non-Endemic Regions

**Jonathan De Winter, MD,** University of Antwerp, Edegem, Belgium

15.15

### Novel Variant in DNMT1 Responsible for an Overlapping Cerebellar and Sensory Neuropathy Phenotype

**Poornima Jayadev Menon,** Tallaght University Hospital, Dublin, Ireland

15.30

### Defective Vestibular Function may Contribute to Severe Sensory Ataxia in PMP22-related cCongenital Peripheral Hypomyelination

**Alberto Zambon,** Dubowitz Neuromuscular Centre, UCL Great Ormond Street Institute of Child Health, London, United Kingdom

15.45

### Antibodies Targeting Both Caspr1 and CNTN1 in Two CIDP Patients

**Elba Pascual-Goñi, MD,** Hospital de la Santa Creu i Sant Pau, Barcelona, Spain

# PROGRAM – SUNDAY 13 JUNE 2021

All times listed in EDT (US & Canada)

Start time: 6.00 PDT | 8.00 CDT | 9.00 EDT | 14.00 BST | 15.00 CEST | 21.00 CST | 23.00 AEST

9.00-9.30 **Coffee Chats** (Limited to 50 participants per chat room. First come, first serve.)

9.00 **NPC Open Forum**

**Room Host:** Daniela M. Menichella, MD, PhD, Northwestern University, Chicago, IL, USA

9.00 **INC Business Open Forum (GBS|CIDP Foundation International, IMAGINE, INCbase, IGOS)**

**Room Hosts:** Lisa Butler, GBS | CIDP Foundation International, Conshohocken, PA, USA; Filip Eftimov, MD, PhD, University of Amsterdam, Amsterdam, Netherlands; Bart Jacobs, MD, Erasmus MC University Medical Center, Rotterdam, Netherlands; Tatiana Hamadeh, PhD, Maastricht University Medical Centre, Maastricht, Netherlands

9.00 **Poster Presentation Tips**

**Room Hosts:** Luuk Wieseke, MD, PhD, Amsterdam University, Amsterdam, Netherlands and Kathryn Moss, PhD, Johns Hopkins School of Medicine, Baltimore, Maryland, USA

9.00 **Basic Science in the PNS**

**Room Hosts:** Jérôme Devaux, PhD, Institute de Neurosciences de Montpellier, U1051 INSERM, Montpellier, France and Nicolas Tricaud, PhD, Institute de Neurosciences de Montpellier, U1051 INSERM, Montpellier, France

9.00 **Diabetes Mellitus and Lumbosacral Radiculoplexus Neuropathies**

**Room Host:** James B. Dyck, MD, Mayo Clinic, Rochester, MN, USA

9.30-10.00 **PNS Kick-Off Event**

Please join us for this fun community building event, which will showcase video messages from PNS Members around the globe.

10.00-12.15 SPECIAL INTEREST GROUP (SIG) CONCURRENT SESSIONS

10.00-12.15 **CHARCOT-MARIE-TOOTH & RELATED NEUROPATHIES CONSORTIUM (CMTR)**

10.00



**Welcome**

**Michael Shy, MD**

CMTR Chair, University of Iowa, Carver College of Medicine, Iowa City, IA, USA

# PROGRAM – SUNDAY 13 JUNE 2021

10.05

## Invited Speakers

**Chairs:** **Michael Shy, MD**, CMTR Chair, University of Iowa, Carver College of Medicine, Iowa City, IA, USA and **Stephan Zuchner, MD, PhD**, University of Miami, Miami, FL, USA

10.05



## Molecular Targets and Biomarkers in Inherited Peripheral Neuropathies

**Rita Horvath, MD, PhD**

Department of Clinical Neurosciences, University of Cambridge, Cambridge, Cambridgeshire

10.35



## Regulation of Axon Stability by Metabolic Coupling to Schwann Cells

**Bogdan Beirowski, MD, PhD**

Hunter James Kelly Research Institute, Jacobs School of Medicine and Biomedical Sciences, SUNY Buffalo, Buffalo, New York, USA

11.05



## The Identification and Clinical Spectrum of RFC1 and Other Expansions Associated with Inherited Neuropathies

**Henry Houlden, MD, PhD**

UCL Institute of Neurology, London, United Kingdom

11.35



## Familial Amyloid Polyneuropathy

**Márcia Waddington-Cruz, MD, PhD**

Federal University of Rio de Janeiro. University Hospital.CEPARM, Rio de Janeiro, Brazil

12.05

## Closing Remarks

**Michael Shy, MD**, CMTR Chair, University of Iowa, Carver College of Medicine, Iowa City, IA, USA

12.15-12.45 Break

# PROGRAM – SUNDAY 13 JUNE 2021

## 10.00-12.15 INTERNATIONAL DIABETES NEUROPATHY CONSORTIUM (IDNC)

10.00



### Welcome

**James Russell, MD**

*IDNC Chair, University of Maryland School of Medicine,  
Baltimore, MD, USA*

10.05

### Invited Speakers

**Chairs: Daniela Maria Menichella, MD, PhD**, Northwestern University, Chicago, IL, USA  
and **Rob Singleton, MD**, The University of Utah, Salt Lake City, UT, USA

10.05



### Using RNA Sequencing on Human Peripheral Nerves to Understand Mechanisms Driving Painful Neuropathies

**Theodore Price, PhD**

*University of Texas at Dallas, Dallas, Texas, USA*

10.50



### Sodium Channelopathies in Painful Small Fiber and in Painful Diabetic Peripheral Neuropathy

**Catharina Faber, MD, PhD**

*Maastricht University Medical Centre, Maastricht, Netherlands*

11.35

### Oral Poster Presentations

**Chairs: Amanda Peltier, MD**, Vanderbilt University Medical School, Brentwood, TN, USA and **James Russell, MD**, IDNC Chair, University of Maryland School of Medicine, Baltimore, MD, USA

11.35

### Decreased Distribution of Microvessels in Sweat Glands in Diabetic Skin Biopsy

**Ying Liu**, Baltimore, MD, USA

11.40

### Sensory and Innervation Deficits Reversed by a Ketogenic Diet in Mice with Type 1 Diabetes

**Jonathan Enders**, University of Kansas Medical Center, Kansas City, KS, USA

11.45

### Genetic Evidence for the Most Common Risk Factors of Chronic Axonal Polyneuropathy in the General Population

**Noor Taams, MD**, Erasmus University Medical Center, Rotterdam, Netherlands

11.50

### Current Interventions for Diabetic Peripheral Neuropathy: Do They Reduce Fall Risk? A Systematic Review

**Nesreen Alissa, PT, MS**, University of Maryland, Baltimore, Baltimore, MD, USA



# PROGRAM – SUNDAY 13 JUNE 2021

11.55 **Monitoring of in Vivo Inflammation Reveals PNS Caspase-1 Mediated Inflammatory Response in Western Diet Fed Rodents**

**Raiza Bonomo**, Loyola University Chicago, Maywood, IL, USA

12.00 **Role of Macrophage Monocarboxylate Transporter 1 (MCT1) in Diabetic Peripheral Neuropathy**

**Atul Rawat, PhD**, Johns Hopkins University, Baltimore, MD, USA

12:05 **Closing Remarks**

**James Russell, MD**, IDNC Chair, University of Maryland School of Medicine, Baltimore, MD, USA

12.15-12.45 Break

## 10.00-12.15 TOXIC NEUROPATHY CONSORTIUM (TNC)

10.00 **Welcome**

**Guido Cavaletti, MD**

TNC Chair, University of Milano-Bicocco, Monza (I), Milan, Italy



10.05 **Invited Speakers**

**Chairs: Ellen Lavoie Smith, PhD, MSN, RN, AOCN(R), FAAN**, University of Michigan School of Nursing, Ann Arbor, Michigan, USA and **Ahmet Hoke, MD, PhD**, Johns Hopkins School of Medicine, Baltimore, Maryland, USA

10.05 **Metabolomics: A Tool for Neurological Research**

**Debra J. Skene, PhD**

University of Surrey, Guildford, United Kingdom



10.35 **Chemotherapy-Induced Peripheral Neuropathy (CIPN): Characteristics, Patterns and Outcomes Across the Lifespan**

**Ellen Lavoie Smith, PhD, MSN, RN, AOCN(R), FAAN**

University of Michigan School of Nursing, Ann Arbor, Michigan, USA



# PROGRAM – SUNDAY 13 JUNE 2021

11.05



## Debate – Different Perceptions of CIPN

**Ahmet Hoke, MD, PhD**

*Johns Hopkins School of Medicine, Baltimore, Maryland, USA*



**Karin Jordan, MD**

*Department of Haematology and Oncology,  
Heidelberg University Hospital, Heidelberg, Germany*

12.05

## Closing Remarks

**Guido Cavaletti, MD, TNC Chair, University of Milano-Bicocco, Monza (I), Milan, Italy**

12.15-12.45 Break

12.45-15.00 SPECIAL INTEREST GROUP (SIG) CONCURRENT SESSIONS

12.45-15.00 **INFLAMMATORY NEUROPATHY CONSORTIUM (INC)**

12.45



## Welcome

**Peter Van den Bergh, MD, PhD, FEAN, FAAN**

*INC Chair, University Hospitals St-Luc, Brussels, Belgium*

12.50

## Invited Speakers

**Chairs: Jeff Allen, MD, University of Minnesota, Minneapolis, MN, USA and  
Simon Rinaldi, PhD, MBChB, MRCP, University of Oxford, Oxford, UK**

12.50



## Update on Neuralgic Amyotrophy

**Nens van Alfen, MD, PhD**

*Radboud University Medical Center, Nijmegen, Netherlands*

13.20



## The Role of Fc Receptors in Inflammatory Neuropathy: Emerging Targets for Novel Therapies

**Kazim Sheikh, MD**

*McGovern Medical School, University of Texas, Houston, Texas, USA*

# PROGRAM – SUNDAY 13 JUNE 2021

13.50



## Pathology of Early Guillain-Barré Syndrome

**Jose Berciano, PhD**

*University of Cantabria, Santander, Spain*

14.20



## Beyond Immunoglobulin and Steroids in CIDP: What Can We Learn from Other Diseases?

**Stephen W. Reddel, PhD**

*University of Sydney, Sydney, Australia*

14.50

## Closing Remarks

**Peter Van den Bergh, MD, PhD, FEAN, FAAN, INC Chair, University Hospitals St-Luc, Brussels, Belgium**

## 12.45-15.00 NEUROPATHIC PAIN CONSORTIUM (NPC)

12.45



## Welcome

**Daniela Menichella, MD, PhD**

*NPC Chair, Northwestern University, Chicago, IL, USA*

12.50

## Invited Speakers

**Chairs: Margarita Calvo, MD, PhD, Pontificia Universidad Católica de Chile, Santiago, Chile and Theodore Price, PhD, The University of Texas at Dallas, Richardson, TX, USA**

12.50



## Human iPSC-derived Sensory Neurons to Study Painful Peripheral Neuropathy

**Angelika Lampert, MD**

*Uniklinik RWTH Aachen University, Aachen, Germany*

13.35



## Neuropathic Pain Development in the Aged

**Michael Burton, PhD**

*UT Dallas, Dallas, Texas, USA*

## PROGRAM – SUNDAY 13 JUNE 2021

### 14.20 **Oral Poster Presentations**

**Chairs:** Cheryl L. Stucky, PhD, Medical College of Wisconsin, Milwaukee, WI, USA and  
Doug Wright, PhD, University of Kansas Medical Center, Kansas City, KS, USA

#### 14.20 **Lack of Skin Cell-Secreted Neurotrophic Factors Results in a Small Fiber Neuropathy**

**Paula Diaz Cespedes, PhD**, Pontificia Universidad Católica de Chile, Santiago, Chile

#### 14.25 **Transcriptome Analysis of Activated Epidermal Keratinocytes of Mouse Skin Reveals Mechanisms of Degeneration of Cutaneous Nerves**

**Abdelhak Belmadani, PhD**, Northwestern University Feinberg School of Medicine, Chicago, IL, USA

#### 14.30 **Role of Mesenchymal Stem Cell Derived Exosomes in Neuronal Survival**

**Olga Tarasiuk, PhD**, University of Milan, Bicocca, Monza, Italy

#### 14.35 **Highly Stringent Proteomics to Elucidate Molecular Mechanisms Underlying Neuropathic Pain and Axonal Degeneration in Painful Diabetic Neuropathy**

**Nirupa Jayaraj**, Chicago, IL, USA

#### 14.40 **Scavenging Methylglyoxal and Preventing Methylglyoxal-Evoked Nociception with a Ketogenic Diet**

**Jonathan Enders, MSc**, University of Kansas Medical Center, Kansas City, KS, USA

#### 14.45 **Contribution of Kv1.6 to Modulation of Neuropathic Pain in Vivo and Spontaneous Activity in Vitro**

**Luisa Gonzalez Gomez, MSc, PhD**, Pontificia Universidad Católica de Chile, Santiago, Chile

### 14.50 **Closing Remarks**

**Daniela Menichella, MD, PhD**, NPC Chair, Northwestern University, Chicago, IL, USA

# PROGRAM – FRIDAY 25 JUNE 2021

All times listed in EDT (US & Canada)

Start time: 6.00 PDT | 8.00 CDT | 9.00 EDT | 14.00 BST | 15.00 CEST | 21.00 CST | 23.00 AEST

9.00-9.30 **Coffee Chats** (Limited to 50 participants per chat room. First come, first serve.)

- 9.00 **International CIPN Assessment and Validation Study (ICAVS): Update and Plans**  
**Room Host:** Paola Alberti, MD, PhD, University of Milano-Biocca, Monza, Italy
- 9.00 **INC Business Open Forum (GBS|CIDP Foundation International, IMAGINE, INCbase, IGOS)**  
**Room Hosts:** Lisa Butler, GBS | CIDP Foundation International, Conshohocken, PA, USA; Filip Eftimov, MD, PhD, University of Amsterdam, Amsterdam, Netherlands; Bart Jacobs, MD, Erasmus MC University Medical Center, Rotterdam, Netherlands; Tatiana Hamadeh, PhD, Maastricht University Medical Centre, Maastricht, Netherlands
- 9.00 **Human vs Rodent: Translational Research in Neuropathic Pain in Peripheral Neuropathy**  
**Room Host:** Cheryl Stucky, PhD, Medical College of Wisconsin, Milwaukee, WI, USA
- 9.00 **Grant Writing**  
**Room Host:** Eva Feldman, MD, PhD, University of Michigan Department of Neurology, Ann Arbor, MI, USA and Stephanie Eid, PhD, University of Michigan Department of Neurology, Ann Arbor, MI, USA
- 9.00 **CMTR Cell Biology Discussion Group**  
**Room Host:** Alessandra Bolino, PhD, San Raffaele Hospital, Milan, Italy

9.30-10.00



## **Peter J Dyck Lecture**

### **Mechanisms of Cutaneous Pain Sensation**

**Michael Caterina, MD, PhD, Johns Hopkins School of Medicine, Baltimore, Maryland, USA**

**Chairs:** Daniela Maria Menichella, MD, PhD, Northwestern University, Chicago, IL, USA and Michael Polydefkis, MD, MHS, Johns Hopkins Medicine, Baltimore, MD, USA

10.00-11.30 **Platform Session I**

**Chairs:** Daniela Maria Menichella, MD, PhD, Northwestern University, Chicago, IL, USA and Michael Polydefkis, MD, MHS, Johns Hopkins Medicine, Baltimore, MD, USA

- 10.00 **Epidermal SIRT1 Modulates Mechanical Allodynia in Diabetic Neuropathy**  
**Cheng-Ying Ho, University of Maryland, Rockville, MD, USA**
- 10.15 **Identifying Changes in the Gene Expression Profile of Sensory Neurons in Painful Diabetic Neuropathy**  
**Dale George, PhD, Northwestern, Chicago, IL, USA**
- 10.30 **Targeting the Low Density Lipoprotein Receptor Related Protein for Treating Pain**  
**Zixuan Wang, University of California, San Diego, La Jolla, CA, USA**
- 10.45 **Exploring In Vivo Neural Imaging as a Readout for HDAC6 Rescue of Axonal Transport after Oxaliplatin-Induced Peripheral Neuropathy**  
**Lucia Le Roux, MD, Anderson Cancer Center, Houston, TX, USA**



# PROGRAM – FRIDAY 25 JUNE 2021

11.00 **Valency Dictates Anti-Nfasc155 igg4 Pathogenicity**

**Jerome Devaux, PhD**, Inserm, Montpellier, France

11.15 **Myelinated, Human Stem Cell-Derived Sensory Neurons for Screening for the Presence of Peripheral Nerve-Reactive Autoantibodies in Patient Sera**

**Janev Fehmi, MBBS, MRCP UK, MSc**, NDCN University of Oxford, Oxford, UK

11.30-12.00 Break

12.00-12.30



## **Richard Bunge Lecture**

### **Signals to Schwann Cells During Myelination and Peripheral Neuropathies**

**Laura Feltri, MD**, SUNY at Buffalo, Buffalo, New York, USA

**Chairs:** **Kathrin Doppler, MD**, University Hospital Würzburg, Würzburg, Germany and **Michael Shy, MD**, University of Iowa, Carver College of Medicine, Iowa City, Iowa, USA

12.30-13.00 **Oral Poster Session I**

**Chairs:** **Kathrin Doppler, MD**, University Hospital Würzburg, Würzburg, Germany and **Michael Shy, MD**, University of Iowa, Carver College of Medicine, Iowa City, Iowa, USA

12.30 **A Study To Establish The Serological Profile of Guillain-Barré Syndrome Following COVID-19**

**Ana Candalija, PhD**, University of Oxford, Oxford, UK

12.35 **Sensory Neuronopathy Associated Anti-FGFR3 Antibodies Induce Neuronal Cell Death through MAP Kinase and Autophagy Pathways**

**Yara Nasser, MD**, University Hospital of Saint Etienne, France, Saint Etienne, France

12.40 **Monocarboxylate Transporter 1 (MCT1) Overexpression in Macrophages Accelerates Peripheral Nerve Regeneration after Injury in Mice**

**Brett Morrison, MD, PhD**, Johns Hopkins University, Baltimore, MD, USA

12.45 **A Novel Mouse Model for the MPZ-D61N Mutation Identifies Hyperglycosylation as a New Pathogenetic Mechanism in CMT1B**

**Maurizio D'Antonio, PhD**, San Raffaele Scientific Institute, Milano, Italy

12.50 **Altered Ubiquitination of Mutant TRPV4 Ion Channels may Contribute to CMT2C/dSMA Disease Pathogenesis**

**William Aisenberg, B.Sci**, Johns Hopkins, Baltimore, MD, USA

12.55 **Loss-of-Function SARM1 Coding Variation is Present in the Human Population**

**Mirlinda Ademi, MD, PhD**, Clinical Neurosciences, University of Cambridge, Cambridge, UK

# PROGRAM – FRIDAY 25 JUNE 2021

## 13.00-14.00 Guided Poster Hall Tours

(Limited to 50 participants per chat room. First come, first serve.)

### 13.00 Translation to Treatment

**Tour Guides:** **James Russell, MD**, University of Maryland School of Medicine, Baltimore, MD, USA and **Andrea Cortese, MD**, University College London, London, UK

### 13.00 Novel Biomarkers

**Tour Guides:** **John Svaren, PhD**, University of Wisconsin-Madison, Madison, WI, USA and **Simon Rinaldi, PhD**, University of Oxford, Oxford, UK

### 13.00 Models of Disease

**Tour Guides:** **Wendy Campana, PhD**, UC San Diego, San Diego, CA, USA and **Brett McCray, MD**, Johns Hopkins, Baltimore, MD, USA

### 13.00 Charcot-Marie Tooth & Related Neuropathies

**Tour Guides:** **Vera Fridman, MD**, University of Colorado Anschutz Medical Campus, Aurora, CO, USA and **Laura Matilde, MD, PhD**, University College London Hospital, London, UK

### 13.00 Neuropathic Pain

**Tour Guides:** **Rob Hadden, PhD, FRCP, BM, BCh**, King's College Hospital, London, UK and **Roy Freeman, MD**, Beth Israel Deaconess Medical Center, Harvard Medical Center Boston, MA, USA

# PROGRAM – SATURDAY 26 JUNE 2021

All times listed in EDT (US & Canada)

Start time: 6.00 PDT | 8.00 CDT | 9.00 EDT | 14.00 BST | 15.00 CEST | 21.00 CST | 23.00 AEST

9.00-9.30 **Coffee Chats** (Limited to 50 participants per chat room. First come, first serve.)

9.00 **Exercise and CIPN**

**Room Host:** Susanna Park, PhD, University of Sydney, Sydney, Australia

9.00 **The Opioid Crisis and Peripheral Neuropathy**

**Room Host:** Roy Freeman, MD, Beth Israel Deaconess Medical Center, Harvard Medical Center Boston, MA, USA

9.00 **International Outreach Open Forum**

**Room Host:** Umapathi Thirugnanam, MD, National Neuroscience Institute, Singapore, Singapore

9.00 **CMTR Genetics Discussion Group**

**Room Hosts:** Marina Kennerson, BSc, MSc, PhD, ANZAC Research Institute, Concord, Australia, Vincent Timmerman, PhD, MSc, University of Antwerp, Antwerp, Belgium, and Stephan Züchner, MD, PhD, University of Miami, Miami, FL, USA

9.30-10.00



**Arthur K Asbury Lecture**

**Antisense Therapies for Neurological Diseases**

**Frank Bennett, PhD, Ionis Pharmaceuticals, Inc., Carlsbad, CA, USA**

**Chairs:** Guida Landoure, MD, PhD, University of Bamako, Bamako, Mali and Charlotte Sumner, MD, Johns Hopkins Medicine, Baltimore, MD, USA

10.00-11.30 **Platform Session II**

**Chairs:** Guida Landoure, MD, PhD, University of Bamako, Bamako, Mali and Charlotte Sumner, MD, Johns Hopkins Medicine, Baltimore, MD, USA

10.00 **RNAi-Based Gene Therapy Improves Functional and Histopathological Outcomes in a CMT1A Mouse Model**

**Marina Stavrou, PhD, The Cyprus Institute of Neurology and Genetics, Nicosia, Cyprus**

10.15 **Squalenoyl siRNA PMP22 Nanoparticles, a Potent Therapy for Charcot-Marie-Tooth Disease Type 1A**

**Suzan Boutary, PhD, Inserm Arcueil, France**

10.30 **AAV9 Gene Replacement Therapy In Two Mutant Mouse Models Of CMT1X Demyelinating Neuropathy**

**Alexia Kagiava, PhD, MCs, The Cyprus Institute of Neurology and Genetics, Nicosia, Cyprus**

10.45 **Ethoxyquin Prevents Bortezomib Neurotoxicity in Vitro and in a Mouse Model of Chemotherapy Induced Peripheral Neuropathy**

**Aysel Cetinkaya-Fisgin, PhD, JHU SOM Neurology, Baltimore, MD, USA**

# PROGRAM – SATURDAY 26 JUNE 2021

11.00 **Pre-Clinical Treatment Studies of SORD Neuropathy with Novel Aldose Reductase Inhibitors AT-001 and AT-007**

**Adriana Rebelo, PhD**, *University of Miami, Miami, FL, USA*

11.15 **LATE BREAKING: In vivo CRISPR/Cas9 Editing of the TTR Gene by NTLA-2001 in Patients with Transthyretin Amyloidosis**

**Julian Gillmore, PhD**, *National Amyloidosis Centre, University College London, London, UK*

## 11.30-12.00 **PNS Annual General Meeting**

All are encouraged to attend the PNS Annual General Meeting. Your input is valuable, as we review the business of the PNS.

12.00-12.30



### **Jack Griffin Lecture**

**The Molecular Mechanism of Axon Degeneration: SARM1 as a Druggable Target for the Prevention of Peripheral Neuropathy**

**Aaron Diantonio, MD, PhD**, *Washington University School of Medicine, St. Louis, MI, USA*

**Chairs: Ahmet Hoke, MD, PhD**, *Johns Hopkins University, Baltimore, MD, USA* and **Luis Querol, MD, PhD**, *Hospital de la Santa Creu i Sant Pau, Barcelona, Catalunya, Spain*

## 12.30-13.00 **Oral Poster Session II**

**Chairs: Ahmet Hoke, MD, PhD**, *Johns Hopkins University, Baltimore, MD, USA* and **Luis Querol, MD, PhD**, *Hospital de la Santa Creu i Sant Pau, Barcelona, Catalunya, Spain*

12.30 **A Novel PMP22 3'UTR Deletion Suggests a Role of the 3'UTR in Post-Transcriptional Gene Regulation**

**Menelaos Pipis, MBBS**, *Centre for Neuromuscular Diseases, UCL Queen Square Institute of Neurology, London, UK*

12.35 **An Allosteric Specific Activator of Sirtuin 1 Induces Growth of Axons and Prevents Experimental Diabetic Neuropathy**

**Ahmad Hedayat, MD**, *University of Maryland School of Medicine, Chicago, IL, USA*

12.40 **Chronic Inflammatory Demyelinating Polyneuropathy (CIDP) is an Autoimmune Disease Associated with Immune Infiltration into Peripheral Nerves**

**Xihui Yin**, *UCLA, Los Angeles, CA, USA*

12.45 **Curcumin Delivered by Cyclodextrine-Cellulose Nanocrystals Reduces Oxidative Stress and Ameliorates the Symptoms of CMT1A Rat**

**Zeina Msheik, PharmD**, *University of Limoges, Limoges, France*

12.50 **Role of the ATF6 Branch of the UPR In CMT1B Neuropathy**

**Francesca Veneri, PhD**, *San Raffaele Scientific Institute, Milano, Italy*

## PROGRAM – SATURDAY 26 JUNE 2021

- 12.55 **Serum Neurofilament Light Chain As A Blood Biomarker of Severity in Paclitaxel-Induced Peripheral Neurotoxicity**

**Andreas Argyriou, MD, PhD**, Saint Andrew's State General Hospital of Patras, Patras, Greece

### 13.00-14.00 **Guided Poster Hall Tours**

(Limited to 50 participants per chat room. First come, first serve.)

#### 13.00 **Inflammatory Neuropathy**

**Tour Guides:** Kathrin Doppler, MD, University Hospital Würzburg, Würzburg, Germany and Sonja Leonhard, MD, Erasmus Medical Center, Rotterdam, Netherlands

#### 13.00 **Diabetes**

**Tour Guides:** Doug Wright, PhD, University of Kansas Medical Center, Kansas City, KS, USA and Vera Fridman, MD, University of Colorado Anschutz Medical Campus, Aurora, CO, USA

#### 13.00 **Toxic Neuropathy**

**Tour Guides:** Ahmet Hoke, MD, PhD, Johns Hopkins University, Baltimore, MD, US and Andreas Argyriou, MD, DSc, Saint Andrew's General Hospital, Patras, Greece

#### 13.00 **Clinical Outcome Measures**

**Tour Guides:** David Herrmann, University of Rochester, Rochester, NY, USA and Jeffrey Allen, MD, University of Minnesota Health, Minneapolis, MN, USA

#### 13.00 **Mechanisms of Disease**

**Tour Guides:** Steven Scherer, MD, PhD, The University of Pennsylvania, Philadelphia, PA, USA and Ruth Huizinga, PhD, Erasmus MC University Medical Center, Rotterdam, Netherlands



# PROGRAM – SUNDAY 27 JUNE 2021

All times listed in EDT (US & Canada)

Start time: 6.00 PDT | 8.00 CDT | 9.00 EDT | 14.00 BST | 15.00 CEST | 21.00 CST | 23.00 AEST

9.00-9.30 **Coffee Chats** (Limited to 50 participants per chat room. First come, first serve.)

9.00 **Neurological Complications of COVID Vaccinations**

**Room Host:** **Stephen Keddle, MBBS, MRCP**, National Hospital for Neurology and Neurosurgery, London, UK and **Michael Lunn, PhD, MA, MBBS, FRCP**, National Hospital for Neurology and Neurosurgery Queen Square, London, UK

9.00 **How COVID Has Affected the Job Market**

**Room Hosts:** **Karissa Gables, MD**, Duke University, Durham, NC, USA and **Chafic Karam, MD**, University of Pennsylvania, Philadelphia, PA, USA

9.00 **CMTR Clinical Discussion Group**

**Room Host:** **Davide Pareyson, MD**, Carlo Besta Neurological Institute IRCCS Foundation, Milan, Italy

9.30-10.00



**PK Thomas Lecture**

**Genetics of Hereditary Spastic Paraplegia —  
Overlap Between Central and Peripheral Axonopathies**

**Rebecca Schüle, MD**, University of Tübingen, Hertie Institute for Clinical Brain Research & German Center for Neurodegenerative Diseases (DZNE), Tübingen, Germany

**Chairs:** **Nortina Shahrizaila, MD, PhD**, University Malaya Medical Centre, Kuala Lumpur, Malaysia and **Stephan Zuchner, MD, PhD**, University of Miami, Miami, FL, USA

10.00-11.30 **Platform Session III**

**Chairs:** **Nortina Shahrizaila, MD, PhD**, University Malaya Medical Centre, Kuala Lumpur, Malaysia and **Stephan Zuchner, MD, PhD**, University of Miami, Miami, FL, USA

10.00 **Recessive Hereditary Motor Neuropathy Caused by  
an Ancestral 10-bp Repeat Expansion in VWA1**

**Rauan Kaiyrzhanov, MSc**, Institute of Neurology University College London, London, UK

10.15 **Biallelic Replication Factor C Subunit 1 (RFC1) Repeat Expansion Mutation is  
Highly Frequent in Sensory Chronic Idiopathic Axonal Polyneuropathy**

**Matteo Tagliapietra, MD**, Department of Neuroscience, Biomedicine and Motor Sciences, Verona, Italy

10.30 **Neurofascin-155 CIDP Patients: Clinical, Immunological and Biomarker Features**

**Lorena Martín-Aguilar, MD**, Hospital de la Santa Creu i Sant Pau, Barcelona, Spain

10.45 **Distinct Clinical Profiles among ATTRv Genotypes**

**Serena Zampino**, Johns Hopkins University, Baltimore, MD, USA

11.00 **Muscle MRI as a Novel Outcome Measure of Hereditary Transthyretin  
Amyloidosis: A Cross-Sectional Cohort Study**

**Elisa Vegezzi**, Department of Brain and Behavioral Sciences, University of Pavia; IRCCS Mondino Foundation, Pavia, Italy

# PROGRAM – SUNDAY 27 JUNE 2021

- 11.15 **RFC1 Expansions are a Common Cause of Idiopathic Sensory Neuropathy**  
**Riccardo Curro, MD**, Department of Brain and Behavioral Sciences, University of Pavia, Reggio Calabria, Italy

11.30-12.00 Break

12.00-12.30



## **Pembroke Lecture**

### **Primary Mitochondrial Neuropathies**

**Michio Hirano, MD**, Columbia University, New York, NY, USA

**Chair: Rita Horvath, MD, PhD**, Department of Clinical Neurosciences, University of Cambridge, Cambridge, UK

12.30-14.00 **Richard A.C. Hughes Session: Clinical Science Highlights**

**Chairs: David Cornblath, MD**, Johns Hopkins University, Baltimore, MD, USA and  
**Mary Reilly, MD, MB, BCh, BAO, FRCP, FRCPI**, Institute of Neurology Queen Square, London, UK

- 12.30 **EAN/PNS Guideline on the Diagnosis and Treatment of Guillain-Barré Syndrome (GBS)**  
**Pieter van Doorn, MD, PhD**, Department of Neurology, Erasmus MC University Medical Center, Rotterdam, Netherlands
- 12.45 **European Academy of Neurology (EAN)/Peripheral Nerve Society (PNS) Guideline on Diagnosis and Treatment of CIDP**  
**Peter Van den Bergh, MD, PhD, FEAN, FAAN**, Neuromuscular Reference Centre, Department of Neurology, University Hospitals Saint-Luc, Brussels, Belgium
- 13.00 **Epidemiological and Cohort Study Finds no Association Between COVID-19 and Guillain-Barré Syndrome**  
**Stephen Keddle, MBBS, MRCP**, National Hospital for Neurology and Neurosurgery, London, UK
- 13.10 **Guillain-Barré Syndrome Decreases in Singapore during the COVID-19 Pandemic**  
**Thirugnanam Umapathi, MBBS**, National Neuroscience Institute, Singapore, Singapore
- 13.20 **Intravenous Administration of ANX005, an anti-C1q Therapy, Inhibits CSF Antibody-Driven Complement Activity in Early Stage Guillain-Barré Syndrome**  
**Poojan Suri, MS**, Annexon Biosciences, Newark, CA, USA
- 13.30 **Phase 2 Proof-of-Concept Trial Design for BIVV020, a Monoclonal Antibody Targeting Complement C1s, in CIDP**  
**Richard Hughes, Prof**, King's College London, London, UK
- 13.40 **HELIOS-A: 9-month Results from the Phase 3 Study of Vutrisiran in Patients with Hereditary Transthyretin-Mediated Amyloidosis with Polyneuropathy**  
**David Adams, MD, PhD APHP**, CHU Bicêtre, Université Paris-Saclay, Paris, France

## PROGRAM – SUNDAY 27 JUNE 2021

13.50 **Epidermal Axon Changes in Patients with Prediabetes: The PACMAN Study**  
**Mamatha Pasnoor, MD**, *The University of Kansas Medical Center, Kansas City, KS, USA*

14.00 **LATE BREAKING: Effect of Combined Administration of Intravenous Immunoglobulin (IVIg) and the Classical Complement Inhibitor ANX005 in Guillain-Barre Syndrome (GBS)**  
**Thomas Harbo, MD**, *Department of Neurology, Aarhus University Hospital, Denmark*

14.10-14.30



### **Awards Ceremony & Closing Remarks**

**Master of Ceremonies: Richard Lewis, MD**, *PNS President-Elect*

*Please join us as we honor one of our esteemed PNS colleagues with the presentation of the prestigious Alan J. Gebhart Prize for Excellence in Peripheral Nerve Research. At the awards ceremony we will also present seven \$750 cash prizes to Junior Member abstract presenters. Being chosen as an award winner is considered an honor and commemorates the contributions of previous leaders in the industry.*





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## Pfizer-sponsored Satellite Symposium at 2021 PNS annual meeting

### Identifying and managing transthyretin (ATTR) amyloidosis early – why is it so important?

**Monday 28<sup>th</sup> June 2021  
17:00–18:00 CEST**

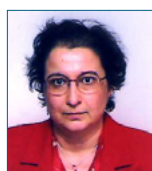
Transthyretin amyloidosis (ATTR amyloidosis) is a rare and complex disease with varied manifestations, from polyneuropathy to cardiomyopathy, which brings substantial challenges to its diagnosis and management.<sup>1</sup> Join us for a symposium where we will discuss how, as a clinical community, we can work together to identify and manage patients with ATTR amyloidosis early by addressing:

- Indicators that should raise suspicion of ATTR amyloidosis in the undiagnosed patient
- The importance of early identification and management of ATTR polyneuropathy
- The impact of cardiac manifestations and its treatment in patients with polyneuropathy

**Please click [here](#) to register and join the satellite symposium.\***

\*Registration fees apply.

#### SPEAKERS



**Teresa Coelho**  
Hospital Santo António,  
Centro Hospitalar Universitário do  
Porto, Porto, Portugal



**Márcia Waddington-Cruz**  
CEPARM. National Amyloidosis  
Referral Center.  
University Hospital.  
Federal University of Rio de Janeiro.  
Rio de Janeiro, Brazil



**Márcia Liz**  
Institute for Molecular and Cell Biology  
(IMCB)/ Instituto de Investigação e  
Inovação em Saúde (i3S), Universidade  
Do Porto, Porto, Portugal



**Stefano Perlini**  
University of Pavia,  
Pavia, Italy

#### AGENDA

Chairs: Márcia Waddington-Cruz (Brazil) & Teresa Coelho (Portugal)

17:00–17:05	<b>Welcome and introduction</b>	Márcia Waddington-Cruz (Brazil)
17:05–17:15	<b>ATTR amyloidosis: an underrecognized disease</b>	Márcia Liz (Portugal)
17:15–17:35	<b>Early treatment in transthyretin amyloid polyneuropathy</b>	Teresa Coelho (Portugal) & Márcia Waddington-Cruz (Brazil)
17:35–17:45	<b>The hidden risk of cardiac disease in ATTR amyloidosis</b>	Stefano Perlini (Italy)
17:45–17:50	<b>Q&amp;A</b>	Teresa Coelho (Portugal)
17:50–18:00	<b>Closing remarks</b>	Márcia Waddington-Cruz (Brazil) & Teresa Coelho (Portugal)

1. Muchtar E, et al. *J Intern Med* 2021;289(3):268–92.

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\*CIDP=chronic inflammatory demyelinating polyneuropathy. HIZ-0132-APR21



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CIDP=chronic inflammatory demyelinating polyneuropathy.  
IVIg=intravenous immunoglobulin.



# 2022 ANNUAL MEETING

14-17 MAY INTERCONTINENTAL MIAMI



# MIAMI

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