28TH INTERNATIONAL SYMPOSIUM ON THE AUTONOMIC NERVOUS SYSTEM
NOVEMBER 1–4, 2017: WYNDHAM GRAND CLEARWATER BEACH, FLORIDA
SPEAKERS

2017 STREETEN LECTURER
Horacio Kaufmann, M.D.

2017 ROBERTSON LECTURER
Italo Biaggioni, M.D.

2017 GROUNDBREAKING RESEARCH LECTURER
Jean-François Brunet, M.D., Ph.D.

2017 MSA LECTURER
Pietro Cortelli, M.D.

2017 POTS LECTURER
Jeffrey Boris, M.D.

2017 GENETICS SPEAKER
Lucy Norcliffe-Kaufmann, Ph.D.

2017 GENETICS SPEAKER
Alejandra Gonzalez-Duarte, M.D.

2017 GENETICS SPEAKER
Lucia Schottlaender, M.D.
<table>
<thead>
<tr>
<th>MEETING#</th>
<th>YEAR</th>
<th>VENUE</th>
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<tr>
<td>1</td>
<td>1990</td>
<td>Nashville, Tennessee</td>
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<td>Montreal, Quebec, Canada</td>
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<td>Honolulu, Hawaii</td>
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<td>Ft. Myers, Florida</td>
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<td>Rio Grande, Puerto Rico</td>
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<td>Palm Springs, California</td>
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<td>Hilton Head Island, South Carolina</td>
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<td>Amsterdam, The Netherlands</td>
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<td>16</td>
<td>2005</td>
<td>Los Cabos, Mexico</td>
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<td>17</td>
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<td>Rio Grande, Puerto Rico</td>
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<td>Vienna, Austria</td>
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<td>Marco Island, Florida</td>
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<td>Stresa, Italy</td>
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<td>San Diego, California</td>
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<td>2017</td>
<td>Clearwater Beach, Florida</td>
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This Society began informally in 1990 at Vanderbilt University, Tennessee. Important motive forces for the initial meeting were Dr. David Robertson and Ms. Dorothy Trainor-Kingsbury (Shy-Drager Support Group). The Society was formally established in 1992, and Dr. Robertson became its first president. The broad aim of this Society is to provide a vehicle for investigators and clinicians interested in the autonomic nervous system to interact. It aims to promote research, education, and academic practice in the autonomic disorders. The Society has escalated in its membership, successfully obtained tax-exempt status, adopted a formal charter, and has its own journal (Clinical Autonomic Research). The Society has an American infrastructure but a strongly international character. Its membership is open to persons of all countries who share the same interests.
Continuing Medical Education:

THANK YOU FOR ATTENDING THE 28TH INTERNATIONAL SYMPOSIUM ON THE AUTONOMIC NERVOUS SYSTEM.

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education through the joint providership of the Medical College of Wisconsin and American Autonomic Society. The Medical College of Wisconsin is accredited by the ACCME to provide continuing medical education for physicians.

AMA CREDIT DESIGNATION STATEMENT:
The Medical College of Wisconsin designates this live for a maximum of 14.75 AMA PRA Category 1 Credit(s)™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

The Medical College of Wisconsin designates this activity for up to 14.75 hours of participation for continuing education for allied health professionals.

You will be receiving an e-mail from cme@mcw.edu within the next two weeks that will contain a link to complete your CME evaluation and claim credit. The e-mail will be sent to the e-mail address you used to register for this symposium. If you do not receive an e-mail for claiming credit by November 20th, please contact us at cme@mcw.edu.
PRESIDENTS:
1992, 1993  David Robertson, M.D.
1994, 1995  Phillip A. Low, M.D.
1997, 1998  Irwin J. Schatz, M.D.
1999, 2000  Roy Freeman, M.D.
2001, 2002  Felicia Axelrod, M.D.
2005, 2006  Horacio Kaufmann, M.D.
2007, 2008  Italo Biaggioni, M.D.
2009, 2010  Mark Chapleau, Ph.D.
2011, 2012  Michael Joyner, M.D.
2013, 2014  Thomas Chelimsky, M.D.
2015, 2016  Christopher Gibbons, M.D.
2017, 2018  William P. Cheshire, M.D.

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Cyndya Shibao, M.D.
Wolfgang Singer, M.D.

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Phone: 858-534-3865 | Fax: 858-534-1445
E-mail: amber@americanautonomicssociety.org
Website: http://americanautonomicssociety.org
AAS COMMITTEES

The American Autonomic Society would like to thank the following AAS committee members for their outstanding contributions:

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Dr. Marvin Medow
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Dr. Juan Guzman
Dr. Lindsey Lair
Mr. Sachin Paranjape
Dr. Chloe Taylor

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Dr. Christopher Gibbons (Chair)
Dr. Thomas Chelimsky
PROGRAM: WEDNESDAY, NOVEMBER 1, 2017

8:00 AM-5:00 PM • Autonomic Disorders Workshop for Generalists
DUNES I-II • (separate registration required)

3:00-5:00 PM • Case Discussion • DUNES I-II • (open to Workshop and AAS Meeting Registrants)

5:00-6:30 PM • Registration • DUNES FOYER

6:30-9:00 PM • Poster Session I and Trainee Poster Competition
• DUNES IV-V • (Cheese & Wine)

THURSDAY, NOVEMBER 2, 2017

8:00-8:30 AM • Continental Breakfast • PELICAN/HERON

8:30-9:15 AM • Robertson Plenary Lecture • Pathophysiology of supine hypertension in autonomic failure • Italo Biaggioni, M.D. • Nashville, TN, USA
• Chair: Satish Raj • DUNES I-III

SESSION 1: Treatment of Orthostatic Hypotension Symposium
Sponsored by Lundbeck
Chairs: Christopher Gibbons, Jens Jordan and Cyndya Shibao
DUNES I-III

9:15-9:30 AM • Prospective study of real-world outcomes in the treatment of neurogenic orthostatic hypotension with droxidopa • S. Kymes, C. François, K. McLeod, A. Duhig, A. Ogbonnaya, A. Quillen, J. Cannon, C.A. Shibao, B. Yue, I. Biaggioni • Deerfield, IL, USA

9:30-9:45 AM • AAS-Lundbeck Travel Fellowship Award
Renal conversion of L-dihydroxyphenylserine (droxidopa) to norepinephrine in levodopa-untreated patients with neurogenic orthostatic hypotension • G. Lamotte, C. Holmes, P. Sullivan, D.S. Goldstein • Washington, DC, USA

9:45-10:00 AM • AAS-Lundbeck Travel Fellowship Award
Vasovagal syncope patients have a reduced quality of life and greater psychological distress compared to healthy subjects • J. Ng, R.S. Sheldon, D. Ritchie, V. Raj, S.R. Raj • Calgary, AB, Canada
10:00-10:15 AM • AAS-Lundbeck Travel Fellowship Award
Initiation of droxidopa during hospital admission for management of refractory neurogenic orthostatic hypotension in severely ill patients • B. Preheim, J. Celedonio, A. Diedrich, J. Kimmet, J.A.S. Muldowney, A.C. Peltier, D. Robertson, I. Biaggioni, C.A. Shibao • Nashville, TN, USA

10:15-10:30 AM • Effect of acetylcholinesterase inhibition on orthostatic blood pressure and plasma norepinephrine in individuals with spinal cord injury and uninjured controls • J.M. Wecht, J.P. Weir, N.D. Nguyen, G.J. Schilero, C. Holmes, W.A. Bauman, D.S. Goldstein • Bronx, NY, USA

10:30-10:50 AM • Presentations from Top 4 Posters (4 @ 5 min each) • Chairs: Cyndya Shibao & Wolfgang Singer

10:50-11:25 AM • Coffee Break • DUNES FOYER

11:25-12:30 PM • Groundbreaking Research Plenary Lecture • The sacral autonomic outflow is sympathetic • Jean-François Brunet, M.D., Ph.D. • Paris, France • Chair: David S. Goldstein • DUNES I-III

12:30-2:30 PM • Poster Session II • (Box Lunch)

2:30-4:00 PM • Free Time

4:00-5:00 PM • Trainee Round Tables • (Mentor-Mentee Activities) • PELICAN

5:00-6:00 PM • Trainee Social • PELICAN

6:00-6:45 PM • Streeten Plenary Lecture • Lessons my patients taught me • Horacio Kaufmann, M.D. • New York, NY, USA • Chair: William Cheshire • DUNES I-III

SESSION 2: Cardiovascular Autonomic Regulation • Chairs: Amy Arnold, Mark Chapleau & Jens Jordan • DUNES I-III

6:45-7:00 PM • Best Basic Science Autonomic Research • 2016 AAS-Lundbeck Research Fellowship Awardee • Exploring neuro-cardiovascular dysregulation in a mouse model of hypertrophic cardiomyopathy • R.A. Larson, M.K. Kafa, M.Z. Cicha, R.M. Weiss, R. Sabharwal, M.W. Chapleau • Iowa City, IA, USA
7:00-7:15 PM  •  **Streeten Travel Fellowship Award**  • In-vivo measurement of brainstem and hypothalamic centers involved in blood pressure regulation in humans: a high-resolution fMRI study with LBNP  •  N. Nazarenko, J. Manuel Sánchez, P. Stahl, K. Heusser, J. Jordan, J. Tank, F. Beissner  • Hannover, Germany

7:15-7:30 PM  •  **AAS-Lundbeck Travel Fellowship Award**  • QT interval lengthening and recovery following experimental hypoglycemia using the hyperinsulinemic clamp procedure  •  B.M.W. Illigens, P.J. Marotta, J. White, I. Bonyhay, C.H. Gibbons, G.K. Adler, R. Freeman  • Boston, MA, USA

7:30-7:45 PM  •  **FMS/Peñáz Wesseling Travel Fellowship Award**  • Muscle sympathetic nerve activity is not altered by experimental sleep restriction in healthy humans  •  J.K. Limberg, W.W. Holbein, B.D. Johnson, N. Covassin, M.J. Joyner, V.K. Somers  • Rochester, MN, USA

7:45-8:00 PM  •  **FMS/Peñáz Wesseling Travel Fellowship Award**  • Blood pressure response to experimental sleep restriction: effect of family history of hypertension  •  N. Covassin, J. Bukartyk, A.D. Calvin, L. Ruzek, F. Soucek, E.K. St Louis, V.K. Somers  • Rochester, MN, USA

8:00-8:15 PM  •  Differential effect of meal on alpha1-adrenoceptor function in the mesenteric circulation in healthy humans  •  R. Meshulam, F. Zreik, O. Shibolet, G. Jacob  • Tel-Aviv, Israel

8:15-8:30 PM  •  **Awards Presentations**  • Recognition of Fellows of the American Autonomic Society  • Recognition of Longtime Supporters  • Chairs: William Cheshire & Satish Raj

**FRIDAY, NOVEMBER 3, 2017**

8:00-8:30 AM  •  **Continental Breakfast**  • PELICAN/HERON

8:30-9:15 AM  •  **MSA Plenary Lecture**  • Sleep disorders in multiple system atrophy  • Pietro Cortelli, M.D.  • Bologna, Italy  • Chair: Horacio Kaufmann  • DUNES I-III

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**SESSION 3: Multiple System Atrophy and Other Synucleinopathies Symposium**
Sponsored by The MSA Coalition and Theravance Biopharma
**Chairs: Horacio Kaufmann & Wolfgang Singer**
DUNES I-III

9:30-9:45 AM • Profound myocardial norepinephrine deficiency in Parkinson’s disease • D.S. Goldstein, P. Sullivan, Y. Sharabi • Bethesda, MD, USA

9:45-10:00 AM • Loss of bulbospinal inhibitory neurons in the ventrolateral medulla in multiple system atrophy • A.M. Schmeichel, E.A. Coon, J.E. Parisi, P.A. Low, E.E. Benarroch • Rochester, MN, USA

10:00-10:15 AM • Don Summers Memorial Multiple System Atrophy Travel Award • Preliminary results of the Global Multiple System Atrophy Registry (GLOMSAR): an internet-based patient-reported registry • J.A. Palma, A. Porciuncula, F. Krismer, W. Meissner, H. Kaufmann, L. Norcliffe-Kaufmann • New York, NY, USA

10:15-10:30 AM • Alpha-synuclein deposition in a longitudinal study of Parkinson’s disease • C.H. Gibbons, N. Wang, J. Garcia, L. Shih, R. Freeman • Boston, MA, USA

10:30-10:45 AM • Simultaneous assessment of alpha-synuclein deposition and catecholaminergic innervation by immunofluorescence confocal microscopy in autonomic failure • R. Isonaka, P. Sullivan, C. Holmes, D.S. Goldstein • Bethesda, MD, USA

10:45-12:00 PM • Genetics of Autonomic Disorders Symposium Sponsored by Alnylam Pharmaceuticals, Dysautonomia Foundation & PTC Therapeutics
Hereditary sensory and autonomic neuropathies (HSAN) • Lucy Norcliffe-Kaufmann, Ph.D. • New York, NY, USA
Autonomic dysfunction in familial amyloidosis • Alejandra Gonzalez-Duarte, M.D. • Mexico City, Mexico
The genetics of multiple system atrophy • Lucia Schottaender, M.D. • London, UK

Chairs: Roy Freeman & Jose-Alberto Palma

12:00-12:30 PM • Box Lunch • DUNES I-III

SESSION 4: Autonomic Contribution to Hypertension and Metabolism
Chairs: Qi Fu, Jens Tank
DUNES I-III

12:45-1:00 PM • Use of Mayer wave amplitudes to demonstrate aberrant cardiovascular autonomic control following concussion • M.F. LaFountaine, A.J. Testa, J.P. Weir • South Orange, NJ, USA

1:00-1:15 PM • Angiotensin-(1-7) does not acutely lower blood pressure in patients with essential hypertension • A.C. Arnold, J.E. Celedonio, S.Y. Paranjape, I. Biaggioni, A. Gamboa • Hershey, PA, USA

1:15-1:30 PM • AAS-Lundbeck Travel Fellowship Award • The use of lidocaine lubricant in bowel management practices does not improve autonomic dysreflexia in spinal cord injury: a randomized clinical trial • V.E.M. Lucci, M.S. McGrath, R. Willms, V.E. Claydon • Burnaby, BC, Canada

1:30-1:45 PM • African Americans with CD36 partial deficiency have enhanced cardiovascular parasympathetic tone • S.E. Mehr, J.E. Celedonio, A. Diedrich, N.N. Abumrad, C.R. Flynn, N.A. Abumrad, C.A. Shibao • Nashville, TN, USA

1:45-2:00 PM • Autonomic and metabolic dysregulation in a novel mouse model of metabolic syndrome • R. Sabharwal, L. Yang, M.W. Chapleau • Iowa City, IA, USA

2:00-7:00 PM • Free Time

2:30-4:30 PM • AAS Board Meeting • SANDPIPER

4:30-5:30 PM • CAR Editorial Board Meeting • SANDPIPER

5:30-6:30 PM • AAS Committee Meetings • PELICAN/HERON

7:00-10:00 PM • Presidential Dinner • POOL DECK

SATURDAY, NOVEMBER 4, 2017

8:00-8:30 AM • Continental Breakfast • PELICAN/HERON

8:30-9:15 AM • POTS Plenary Lecture • Pediatric POTS: the blind men, the elephant, and the drone • Jeffrey R. Boris, M.D. • Philadelphia, PA, USA • Chair: Satish Raj • DUNES I-III

SESSION 5: Postural Orthostatic Tachycardia Syndrome & Autonomic Neuropathy Symposium
Sponsored by Dysautonomia International
Chairs: Amanda Peltier & Satish Raj • DUNES I-III

9:15-9:30 AM • AAS-Lundbeck Travel Fellowship Award • Nitric oxide function in POTS during high and low sodium diets • J.E. Celedonio, V.C. Nwazue, S.Y. Paranjape, E.M. Garland, L.E. Okamoto, C.A. Shibao, I. Biaggioni, S.R. Raj, A. Gamboa • Nashville, TN, USA
9:30-9:45 AM • Postural tachycardia in hypermobile Ehlers-Danlos syndrome: symptom burden and healthcare utilization • M.G. Miglis, B. Schultz, S. Jaradeh, S. Muppidi • Palo Alto, CA, USA

9:45-10:00 AM • Microneurographic evidence of primary hyperadrenergic POTS • L.E. Okamoto, E.M. Garland, K. Sato, L. Diedrich, R. Furlan, G. Jacob, D. Robertson, I. Biaggioni, A. Diedrich • Nashville, TN, USA

10:00-10:15 AM • A double blind-placebo controlled trial of IVIG in the treatment of AAG: results, implications and lessons learned • C.H. Gibbons, S. Rajan, J. Garcia, R. Freeman • Boston, MA, USA

10:15-10:45 AM • Coffee Break • Dunes Foyer

SESSION 6: Pediatric Autonomic Disorders
Chairs: Gisela Chelimsky & Julian Stewart
DUNES I-III

10:45-11:00 AM • Expanding the genetic and phenotypic spectrum of hereditary sensory and autonomic neuropathies: role of whole exome sequencing • J.A. Palma, L. Norcliffe-Kaufmann, S.A. Slaugenhaupt, H. Kaufmann • New York, NY, USA

11:00-11:15 AM • Percutaneous electrical nerve field stimulation (PENFS) increases vagal tone in functional abdominal pain disorders (aFAPDs) • K. Kovacic, A. Miranda, T. Chelimsky, L. Zhang, P. Simpson, G. Chelimsky • Milwaukee, WI, USA


11:30-11:45 AM • Mechanisms of vasovagal syncope in the young • J.M. Stewart, M.S. Medow, R. Sutton, P. Visintainer, D.L. Jardine, W. Wieling • Valhalla, NY, USA

11:45-12:00 PM • Baro-receptor sensitivity (BRS) in children and young adults: comparing normal controls to POTS (postural orthostatic tachycardia syndrome) and neurocardiogenic syncope patients • M. Alnoor, H. Varner, I. Butler, M. Numan • Houston, TX, USA

12:00-12:30 PM • AAS Business Meeting • DUNES I-III

12:30-12:45 PM • CLOSING REMARKS • William Cheshire, M.D. • President, American Autonomic Society • DUNES I-III

Afternoon 3:00-6:00 PM • Patient Seminar: Updates from the 2017 AAS Meeting
Organized by Dysautonomia International
DUNES I-III (separate registration required)
**POSTER SESSION I: WEDNESDAY, NOVEMBER 1, 2017**

6:30-9:00 PM DUNES IV-V

**TRAINEE POSTER COMPETITION** JUDGES: AAS BOARD MEMBERS

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**Autonomic Failure: PAF, MSA, Parkinson’s Disease**

**Poster #1** • The effect of exercise on heart rate variability during sleep in Parkinson’s disease • A.A. Memon, R.A. Memon, K. Wood, A. Joop, J. Pilkington, M. Bamman, S. Pati, A.W. Amara • Birmingham, AL, USA

**Poster #2** • Depression in multiple system atrophy: association with disease progression and autonomic symptoms • J.M. Martinez, J.A. Palma, L. Norcliffe-Kaufmann, H. Kaufmann • New York, NY, USA

**Poster #3** • Psychosis in multiple system atrophy • J.A. Palma, C.R. de Camargo, J. Martinez, L. Norcliffe-Kaufmann, H. Kaufmann • New York, NY, USA

**Poster #4** • Cold-induced sweat: an uncommon presentation of pure autonomic failure • E. Villareal-Vitorica, C.R. de Camargo, J.A. Palma, L. Norcliffe-Kaufmann, H. Kaufmann • New York, NY, USA

**Poster #5** • Recurrent episodes of loss of consciousness; a case of seronegative autoimmune autonomic ganglionopathy with features of postural orthostatic tachycardia syndrome treated with plasmapheresis: a prospective case study • R.A. Khan, M. Mazhar, C.E. Kaufman • Oklahoma City, OK, USA • (Unable to attend)

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**Autonomic Regulation: Basic Science & Animal Studies**

**Poster #6** • 2016 AAS-Lundbeck Research Fellowship Awardee • Activation of hypothalamic oxytocin neurons restores oxytocin release to parasympathetic cardiac vagal neurons of the brainstem in left ventricular hypertrophy induced heart failure • J. Dyavanapalli, D. Mendelowitz • Washington, DC, USA

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**Cardiac Autonomic Innervation: Humans**

**Poster #7** • Differentiating positive and negative blood pressure variations in the computation of baroreflex sensitivity in amyotrophic lateral sclerosis • B. De Maria, A. Porta, G. Galizia, R. Sideri, K. Marinou, G. Mora, L. Dalla Vecchia • Milan, Italy

**Poster #8** • Centripetal degeneration of cardiac sympathetic nerves in Lewy body diseases • D.S. Goldstein, P. Sullivan, Y. Sharabi • Bethesda, MD, USA

**Poster #9** • Patients with a history of mild traumatic brain injury have impaired autonomic responses to unpleasant odorous stimuli • M. Liu, F. Ammon, J. Markus, R. Wang, K.M. Hösl, T. Hummel, M.J. Hilz • Erlangen, Germany

**Poster #10** • Blood pressure variability accurately quantifies the evolution of autonomic cardiovascular control in acute spinal cord injury • V.E.M. Lucci, J.A. Inskip, O.A. Sandberg, S.S. Bajaj, I. Ruiz-Romero, M.S. McGrath, B.K. Kwon, V.E. Claydon • Burnaby, BC, Canada

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13
Cardiorespiratory Coupling, Dysautonomia in Schizophrenia

Poster #11 • Paced breathing enhancements of cardiorespiratory coupling: a potential therapy to schizophrenia dysautonomia • B. Goubran, L. Firulescu, A. Dumenigo, R. Aguirre, R.W. May, F.D. Fincham, J.D. Oms, M.A. Sanchez-Gonzalez • South Miami, FL, USA

Cardiovascular Disease, Obesity & Aging: Human Studies

Poster #12* • Autonomic symptoms in pre-bariatric surgery patients and at 3 months post surgery • V.M. Ponnusamy, A.P. Owens, C.J. Mathias, H. Chahal, S. Purkayastha, V. Iodice • London, UK • (Unable to attend)

Cerebral Blood Flow Regulation

Poster #13 • The relationship between cardiovascular and cerebrovascular responses to head-up tilt in patients with orthostatic intolerance • T.S. Ahern, K.M. Dickson, K.A. Lichtenstein, M.E. Parker, A. McGlamery, A. Vaene, A. Kim, A. Cabral, M.A. Kalafut, J.R. Criado • La Jolla, CA, USA

Poster #14* • Position-dependent changes of blood flow in carotid arteries assessed by camera-based photoplethysmography • O.V. Mamontov, T.V. Krasnikova, M.A. Volynsky, E.V. Shlyakhto, A.A. Kamshilin • St. Petersburg, Russia

Poster #15 • Differential perfusion between the cerebral hemispheres depicted by near-infra red spectroscopy during head up tilt table test • H. Elfadeel, H. Varner, J. Lankford, I. Butler, M. Numan • Houston, TX, USA

Diabetic, Autoimmune & Other Autonomic Neuropathies

Poster #16 • Toenail changes in autonomic neuropathy • G.A. Cook, Y. Ma • Portsmouth, VA, USA

Poster #17 • A case of a patient with tonic pupil and hypohydrosis • H.N. Jeong, S.W. Kim • Seoul, South Korea

Poster #18 • Clarification of hypoglycemic symptoms in patients with autonomic dysfunction • J.L. Gilden, B. Osmani, E. Ariano, E. Abousaad, A. Al-Khazaali, M. Siddiqui, A. Moid, B.G. Theckedath • North Chicago, IL, USA

Gastrointestinal & Urogenital Systems, IBS, Cystitis

Poster #19* • Effect of the autonomic nervous system on splanchnic circulation before and after meals • F. Zreik, R. Meshulam, O. Shibolet, G. Jacob • Tel Aviv, Israel

Poster #20 • Gastric myoelectrical and neurohormone changes associated with nausea during tilt-induced syncope • G.L. Heyer, L.H. Boles, R.A. Harvey, M.J. Cismowski • Columbus, OH, USA

Poster #21 • Inhibition of somatostatin release from enteric neurons of the guinea pig tenia coli by neurohumoral peptides of the vasoactive intestinal peptide (VIP)-secretin family • J.R. Grider, K.S. Murthy, G.M. Makhlouf • Richmond, VA, USA
Poster #22 • Impairment of mitochondrial bioenergetics in functional disorders does not improve with clinical amelioration • J. de los Santos, E. Awe, D. Johannes, D. Bierer, L. Zhong, S. Komas, B. Kalyanaraman, J. Banda, G. Chelimsky, T. Chelimsky • Milwaukee, WI, USA

Genetic Autonomic Disorders

Poster #23* • Arterial stiffness: a possible link between orthostatic intolerance and Ehlers-Danlos syndromes • A.J. Miller, J. Schubart, R. Bascom, C. Francomano, S. Mills, E. Schaefer, T. Sheehan, A. Dimmock, L.I. Sinoway • Hershey, PA, USA

Poster #24* • Incidence and prevalence of cancer and neoplasia in familial dysautonomia • C.R. de Camargo, J.A. Palma, L. Norcliffe-Kaufmann, H. Kaufmann • New York, NY, USA

Microneurography & Cardiovascular Reflexes in Humans

Poster #25 • Muscle sympathetic nerve activity peaks in the first trimester in healthy pregnancy: a longitudinal case study • S.L. Hissen, K. El Sayed, V.G. Macefield, R. Brown, C.E. Taylor • Sydney, NSW, Australia

Poster #26* • Effect of chronic anxiety on sympathetic vasoconstrictor and cardiac responsiveness in humans • S.W. Holwerda, R.E. Luehrs, L.E. DuBose, N.A. Wooldridge, J.G. Fiedorowicz, F.M. Abboud, G.L. Pierce • Iowa City, IA, USA

Novel Therapies & Clinical Trials

Poster #27* • Can intermittent calf compression improve orthostatic tolerance? • B.C.D. Hockin, L.J. Rietchel, V.E. Claydon • Burnaby, BC, Canada

Poster #28 • Intranasal dexmedetomidine for adrenergic crisis in familial dysautonomia • C.L. Spalink, E. Barnes, J.A. Palma, L. Norcliffe-Kaufmann, H. Kaufmann • New York, NY, USA

Poster #29* • The effect of dipeptidyl peptidase IV inhibition on norepinephrine release in the setting of neuropeptide Y infusion • S.A. Hubers, J.R. Wilson, C.A. Shibao, N.J. Brown • Nashville, TN, USA • (Unable to attend)

Poster #30 • Stimulation of the dorsal root ganglion (DRG) for medicine refractory chronic neuropathic pain: is there sympathetic involvement? • Y.B. Sverrisdóttir, J. Fitzgerald, A. Kent, J. Kramer, A.L. Green • Oxford, UK

Orthostatic Hypotension and Syncope

Poster #31* • Orthostatic heart rate-blood pressure relationship identifies neurogenic orthostatic hypotension • A. Velasco, L.E. Okamoto, E.M. Garland, Y. Chang, I. Biaggioni • Birmingham, AL, USA

Poster #32* • Validity and reliability of orthostatic and non-orthostatic symptoms scores derived from the Orthostatic Discriminant and Severity Scale – a new instrument to discriminate orthostatic from non-orthostatic symptoms • J. Baker, J. Paturel, K. Kimpinski • London, ON, Canada
Poster #33* • Recent syncopal burden, but not prior syncope burden, predicts quality of life • J. Ng, R.S. Sheldon, D. Ritchie, V. Raj, S.R. Raj • Calgary, AB, Canada

Poster #34* • Quality of life improves in vasovagal syncope patients regardless of fainting in follow-up: role of syncope expert? • J. Ng, R.S. Sheldon, C. Maxey, D. Ritchie, S.R. Raj • Calgary, AB, Canada

Poster #35* • Initial cardiovascular response to head-up tilt (HUT) in vasovagal syncope (VVS) • S. Balegh, J. Benoît, B. Ditto, R. Schondorf • Montréal, QC, Canada

Postural Orthostatic Tachycardia Syndrome (POTS)

Poster #36 • Symptom relief from median arcuate ligament syndrome corrective surgery in patients with postural orthostatic tachycardia syndrome and median arcuate ligament syndrome • A. Abouelnasr, S. Alam, Z. Rehman, K. Munez, R. Abu-Jajeh, M.A. Nasri, M. Khan, A. Chandrakala, A. Suleman, R. Overberg • McKinney, TX, USA • (Unable to attend)

Poster #37 • Effectiveness of droxidopa in children with postural orthostatic tachycardia syndrome • B. Kakavand, K. Pires • Orlando, FL, USA

Poster #38 • Prospective screening for intracranial aneurysms in patients with Ehlers-Danlos syndrome presenting with POTS • D.S. Saperstein • Phoenix, AZ, USA


Poster #41* • Coagulopathies in postural orthostatic tachycardia syndrome • K. Munez, H. Mistry, N. Joy, S. Alam, M.A. Nasri, W. Almardini, Z. Rehman, E. Algabre, A. Suleman • McKinney, TX, USA

Poster #42 • Effects of Ivabradine on autonomic parameters in postural orthostatic tachycardia syndrome (POTS) patients • M.A. Nasri, S. Alam, K. Kommera, H. Mistry, K. Munez, N. Joy, E. Algabre, R. Iqbal, R.D. Dada, A. Suleman • McKinney, TX, USA

Poster #43 • Pseudobulbar affect in postural tachycardia syndrome • R.K. Khurana • Baltimore, MD, USA

Cognitive Dysfunction in Autonomic Disorders

Poster #44* • Autonomic contributions to psychological symptomatology in clinical disorders of autonomic hyperarousal • A.P. Owens, D.A. Low, V. Iodice, H.D. Critchley, C.J. Mathias • London, UK • (Unable to attend)
Pupillary Autonomic Modulation
Poster #45* • Disease duration and severity correlate with reduced pupillary modulation in patients with relapsing-remitting multiple sclerosis • M.J. Hilz, R. Wang, S. Roy, M. Liu, C. de Rojas Leal, K. Hösl, D.H. Lee, R.A. Linker • Erlangen, Germany

Sleep Dysfunction in Autonomic Disorders
Poster #46* • Sleep and autonomic impairment in Ehlers-Danlos syndrome: a case series • B. Schultz, C. Guilleminault, S. Jaradeh, M.G. Miglis • Palo Alto, CA, USA

Sympathovagal Balance, Spectral Analysis
Poster #47* • The equivalency of non-invasive measures of vagal baroreflex sensitivity and their relationship to orthostatic cardiac responses • M.G. Lloyd, M. Koehle, R.J. Drapala, V.E. Claydon • Burnaby, BC, Canada
Poster #49* • Effects of cigarette smoking on blood pressure and heart rate variability in habitual smokers • E.V. Saperova, D.A. Dimitriev • Cheboksary, Russia

The Science of Clinical Practice
Poster #50 • Autonomic lifestyles and Fitbit pitfalls: how personal biosensors are changing medical practice • W. P. Cheshire • Jacksonville, FL, USA

POSTER SESSION II: THURSDAY, NOVEMBER 2, 2017
12:30-2:30 PM DUNES IV-V

Autonomic Dysfunction in Carcinomas
Poster #51 • Role of heart rate variability and pulse wave analysis to quantify subclinical autonomic dysfunctions in cancer patients • E. Khandelwal, S. Tripathi • Raipur, India • (Unable to attend)

Autonomic Failure: PAF, MSA, Parkinson’s Disease
Poster #52 • Addressing orthostatic hypotension in Parkinson disease patients in a neurology resident continuity clinic • E.P. Golden, T. Le, L.S. Brown, P. Khemani • Dallas, TX, USA
Poster #53 • Low CSF DOPA and DOPAC predict Parkinson’s disease • D.S. Goldstein, C. Holmes, G.J. Lopez, T. Wu, Y. Sharabi • Bethesda, MD, USA
Poster #54 • Smoking and alcohol use influence age of onset in multiple system atrophy • L.M. Jones, J.E. Ahlskog, J.H. Bower, J.Y. Matsumoto, P. Sandroni, E.E. Benarroch, M. Suarez, P.A. Low, W. Singer, E.A. Coon • Rochester, MN, USA
Poster #55 • Association between complexity analysis of the systolic arterial pressure and heart rate variability and rate of disease progression in patients with amyotrophic lateral sclerosis • B. De Maria, G. Mora, K. Marinou, R. Sideri, R. Furlan, F. Barbic, A. Porta, L. Dalla Vecchia • Milan, Italy

Poster #56 • Vagal baroreflex sensitivity reflects the progression of Parkinson’s disease • K.J. Park, H. Jeong, E.B. Cho, T. Yang, S. Jung, J.Y. Chang • Jinju, The Republic of Korea

**Autonomic Testing**

Poster #57 • Electrochemical skin conductance and the relationship to autonomic structure and function in diabetes • C.H. Gibbons, J. Garcia, M. Casasola, R. Freeman • Boston, MA, USA

Poster #58 • Does physiological volume status affect Q-Sweat volume? • J.A. Gehrking, D.M. Sletten, T.L. Gehrking, K. Minota, W. Singer, P.A. Low • Rochester, MN, USA

**Diabetic, Autoimmune & Other Autonomic Neuropathies**

Poster #59 • Small fiber neuropathy associated with IgG monoclonal gammopathy • H.N. Jeong, S.W. Kim • Seoul, South Korea

Poster #60 • Positive GAD-65 antibodies in patients with autonomic dysfunction • L. Vlahovic, L. Kipp, L. Nguyen, J. Dunn, S. Jaradeh • Stanford, CA, USA

Poster #61 • A randomized, blinded, parallel group lifestyle intervention study improves the expiration:inspiration ratio in subjects with diabetic neuropathy • L. Zilliox, M. Morado, P. Kumar, K. Fleishmann, J.W. Russell • Baltimore, MD, USA

**Epidemiology of Autonomic Disorders**

Poster #62 • Prevalence and incidence rates of autonomic disorders among U.S. Military Healthcare System beneficiaries never diagnosed with diabetes • G.A. Cook, C.A. Shibley, E. Williams IV • Portsmouth, VA, USA

**Exercise, Temperature Regulation & Hypoxia**

Poster #63 • PEARL™: Parkinson Exercise Autonomic Response Level — a bedside rating scale to estimate exercise capabilities in Parkinson diseases • B. Weinstock • Brooklyn, NY, USA

Poster #64 • Can resting heart rate influence heart rate recovery after submaximal exercise test? • G.L. Garcia, K.E. Fontana, C.J.G. Cruz, E.M.K.V.K. Soares, L.G.G. Porto, L.F. Junqueira Jr., G.E. Molina • Brasilia, Brazil • (Unable to attend)

**Genetic Autonomic Disorders**

Poster #65 • Autonomic neuropathy in Wolfram syndrome • W.P. Cheshire, C.E. D’Souza, R.J. Uitti • Jacksonville, FL, USA

Poster #66 • Allgrove syndrome (triple A syndrome): two cases and the fourth “A” • A.B. Murphy, J.A. Palma, H. Kaufmann • New York, NY, USA
Microneurography & Cardiovascular Reflexes in Humans

**Poster #67** • Role of corin in blood pressure regulation during pregnancy in humans
Q. Fu, S. Park, J.K. Yoo, M. Hieda, Y. Okada, S.S. Jarvis, A.S. Stickford, S.A. Best, B.D. Levine • Dallas, TX, USA

**Poster #68** • Interindividual differences in sympathetic baroreflex sensitivity and vascular transduction
S.L. Hissen, V.G. Macefield, R. Brown, C.E. Taylor • Sydney, NSW, Australia

**Poster #69** • The effect of 6 weeks of high-intense training on MSNA levels in hypertensive males
T.S. Ehlers, T.P. Gunnarsson, M. Fiorenza, M.P. Nyberg, J. Bangsbo, Y.B. Sverrisdóttir • Copenhagen, Denmark • (Unable to attend)

Music and the Autonomic Nervous System

**Poster #70** • Effect of tempo and harmony on the autonomic nervous system
K.R. Chémali, K. McNeeley, D. Russell • Norfolk, VA, USA

Neuroimaging in Brain & Heart

**Poster #71** • Comparison of 3T and 7T MRI imaging of the periaqueductal gray region (PAG)

**Poster #72** • Correlation of autonomic dysfunction with the atrophy of central autonomic brain areas in SCA patients
D. Tamuli, M. Kaur, S.S. Kumaran, A.K. Jaryal, A.K. Srivastava, K.K. Deepak • New Delhi, India

**Poster #73** • Neuroimaging biomarkers of putamen and cardiac catecholamine deficiency identify early Parkinson’s disease
D.S. Goldstein, C. Holmes, G.J. Lopez, R. Isonaka, R.T. Vontell, T. Wu, Y. Sharabi • Bethesda, MD, USA

Orthostatic Hypotension and Syncope

**Poster #74** • Syncopedia: filling the physician’s knowledge gap on transient loss of consciousness
J.S.Y. de Jong, W. Wieling, F.J. de Lange, on behalf of the Syncopedia Editorial Board • Amsterdam, The Netherlands

**Poster #75** • Topical diagnostics of arterial baroreflex dysfunction in patients with orthostatic hypotension
O.V. Mamontov, A.V. Kozlenoc, E.V. Shlyakhto • St. Petersburg, Russia

**Poster #76** • Implications of initial orthostatic hypotension seen during tilt table testing
A. Barboi, V. Patel, S. Pocica, S. Moffat, M. Plonka • Evanston, IL, USA

**Poster #77** • Role of potential confounders in affecting hospital admission because of syncope
Poster #78 • Is hospital admission useful for syncope patients? Preliminary results of a propensity analysis • F. Dipaola, E. Pivetta, G. Costantino, J. Quinn, A. Ungar, M. Solbiati, F. Barbic, M. Gatti, R. Furlan • Milan, Italy


Poster #80 • Orthostatic responses to lunar and Martian gravity loads • U. Limper, P. Beck, P. Gauger, L. Beck, J. Tank, J. Jordan • Cologne, Germany

Migraine & Sleep

Poster #81 • Sleep induction following cranial nerve modulation in migraine subjects • R.M. Harper, M.R. White, R.K. Harper, D. Snodgrass, F. Yan-Go, J. Jen, A. Taghizadeh, E.K. Sauerland • Los Angeles, CA, USA

Pediatric Autonomic Disorders

Poster #82 • Vagal modulation in pediatric Functional Pain and Autonomic Disorders (pFPAD) improves as disability improves: preliminary report • G. Chelimsky, L. Zhong, E. Awe, D. Johannes, K. Kovacic, T. Chelimsky • Milwaukee, WI, USA

Poster #83 • Afferent baroreflex failure in children and young adults • J.A. Palma, L. Norcliffe-Kaufmann, H. Kaufmann • New York, NY, USA

Poster #84 • How long to tilt in pediatrics? 10 minutes is not enough! • M. Witzlib, T. Chelimsky, G. Chelimsky • Children’s Hospital of Wisconsin and Medical College of Wisconsin, Milwaukee, WI, USA

Postural Orthostatic Tachycardia Syndrome (POTS)

Poster #85 • Utilization of medications to reduce the symptoms in pediatric patients with postural orthostatic tachycardia syndrome • J.R. Boris, T. Bernadzikowski • Philadelphia, PA, USA


Poster #87 • Case report of May-Thurner syndrome surgery in postural orthostatic tachycardia syndrome • K. Munez, H. Mistry, E. Algabre, N. Joy, M.A. Nasri, S. Alam, R.D. Dada, A. Suleman • McKinney, TX, USA

Poster #88 • POTS after an acute viral infection: role of reversed A:G ratio in clinical diagnosis • P. Kumar, S. Gupta, S. Raghavan • New Delhi, India

Poster #89 • Postural orthostatic tachycardia syndrome (POTS) - its impact on school and work participation • T.S. Ahern • La Jolla, CA, USA

Poster #90 • Irritable heart syndrome without orthostatic tachycardia • H.J. Snapper • Atlanta, GA, USA
Poster #91 • Droxidopa management in postural orthostatic tachycardia syndrome (POTS) patients • N. Joy, E. Algabre, H. Mistry, K. Munez, M.A. Nasri, S. Alam, R. Jajunda, K. Kommera, Z. Rehman, A. Suleman • McKinney, TX, USA

Poster #92 • Median arcuate ligament surgery in postural orthostatic tachycardia syndrome (POTS) – is post operative celiac artery velocity (POCAV) a success marker? • R.D. Dada, M.A. Nasri, H. Mistry, K. Kommera, N. Joy, K. Munez, S. Alam, E. Algabre, R. Iqbal, A. Suleman • McKinney, TX, USA

Poster #93 • Autonomic parameters in postural orthostatic tachycardia syndrome patients before and after median arcuate ligament syndrome surgery • S. Alam, K. Kommera, H. Mistry, K. Munez, E. Algabre, M.A. Nasri, N. Joy, R.D. Dada, A. Suleman • McKinney, TX, USA

Poster #94 • Vitamin D deficiency study in postural orthostatic tachycardia syndrome (POTS) patients • K. Kommera, Z. Rehman, C. Ashanagri, A. Suleman • McKinney, TX, USA • (Unable to attend)

Serious Mental Illness and Autonomic Dysfunction

Poster #95 • Time course of improvement in autonomic function and attention in acute psychosis: a case report • R.R. Aguirre, M. Zirio Mustafa, A. Dumenigo, S. Schulz, A. Voss, R. Dumenigo, M.A. Sanchez-Gonzalez • South Miami, FL, USA

Supine Hypertension and Neurogenic Orthostatic Hypotension

Poster #96 • Assessment of autonomic function during ictal and interictal period of migraine • S. Bansal, A.K. Srivastava • New Delhi, India • (Unable to attend)

Sympathovagal Balance, Spectral Analysis

Poster #97 • Correlation of autonomic and cognitive impairment in patients with a history of traumatic brain injury • M.J. Hilz, K. Hösl, C. de Rojas Leal, S. Roy, M. Liu, R. Wang • Erlangen, Germany

Poster #98 • Cardiovascular autonomic control during paced-respiration hypnosis • E. Brunetta, M. Minonzio, F. Barbic, D. Lopane, C. Poggio, F. Dipaola, C. Margotti, P.R. Tomasin, R. Furlan • Rozzano, Italy

Poster #99 • Optical imaging of baseline and stimulus-induced changes in facial perfusion • M. Cortez, N. Rea, J. Theriot, K.C. Brennan • Salt Lake City, UT, USA

Poster #100 • Sympathetic cardiovascular modulation increases after three years of Fingolimod therapy • R. Wang, S. Roy, M. Liu, C. de Rojas Leal, K. Hösl, D.H. Lee, R.A. Linker, M.J. Hilz • Erlangen, Germany
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E: ron@partnersinmed.com
W: partnersinmed.com
Representative: Ron Borgschulte

Dysautonomia International
67 Woodlawn Ave
East Moriches, NY 11940
P: 631-871-9673
E: lstiles@dysautonomiainternational.org
W: dysautonomiainternational.org
Representative: Lauren Stiles

The Dysautonomia Project
13075 US Highway 19 N
Clearwater, FL 33764, USA
P: 727-455-1025
E: k.freeman@networkforpeople.com
W: thedysautonomiaproject.org
Representative: Kelly Freeman

Finapres Medical Systems
Institutenweg 25
7521 PH Enschede
The Netherlands
P: 31-88-1152700
E: ad.ramaekers@finapres.com
W: finapres.com
Representative: Ad Ramaekers

Lundbeck
Six Parkway North
Deerfield, IL 60015
P: 847-282-1000
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The Multiple System Atrophy (MSA) Coalition
9935-D Rea Road, #212
Charlotte, NC 28277
P: 866-737-4999
E: dcrouse@msacoalition.org
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Normalyte
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I’M AFRAID TO FAINT AGAIN

Look carefully. This may be the face of neurogenic orthostatic hypotension (nOH).

If your patients are feeling dizzy, like they may faint, or any other symptoms that cease upon sitting, they could have nOH. The symptoms may seem minor but can lead to serious consequences.

A diagnosis could make a difference.
These awards were initiated by the American Autonomic Society through the generous support of Lundbeck Inc. to encourage and support research training of individuals evaluating clinical autonomic disorders or physiology. These 1-year funded positions are open to MD's and PhD's (or equivalent doctoral degree) and will provide support for salary and travel to the American Autonomic Society annual meeting. Application details and requirements for future awards will be coming soon on the American Autonomic Society website.

CONGRATULATIONS TO OUR 2017 AAS-LUNDBECK RESEARCH FELLOWSHIP Awardees.

**TITLE:** Sex-differences in sympathetic neural recruitment in elderly hypertension

**AWARDEE:** Dr. Mark Badrov

**MENTOR:** Dr. Qi Fu

**SUMMARY:** This research will test the hypothesis that sympathetic axonal recruitment is augmented during orthostatic stress in elderly hypertensive women. Four interrelated problems form the importance of this research: 1) Globally, hypertension remains a major public health concern and represents a significant risk factor for cardiovascular disease-related morbidity and mortality; 2) Aging is accompanied by sympathetic nervous system dysregulation; 3) More elderly women than men have hypertension; and 4) Blood pressure control rates are markedly lower in elderly hypertensive women. Whether altered sympathetic neural recruitment during daily life stress, such as orthostasis or upright posture, plays a role in the higher rates of hypertension seen in elderly women remains unknown. To test our hypothesis, we plan to compare the magnitude and patterning of sympathetic action potential (AP) discharge during orthostatic stress in elderly normotensive and hypertensive men and women.
**AAS-LUNDBECK RESEARCH FELLOWSHIPS**

**TITLE:** Optical methods for the characterization of facial autonomic function  
**AWARDEE:** Dr. Melissa Cortez  
**MENTOR:** Dr. K.C. Brennan

**SUMMARY:** The craniofacial region is relatively neglected in current autonomic reflex testing. Yet changes in pupillary and trigeminovascular, in addition to cardiovascular autonomic regulation, have been demonstrated in several headache (HA) disorders and may serve as a basis for physiological distinction, generating insights into pathophysiology with important treatment implications. We have developed a novel non-invasive approach to the assessment of craniofacial autonomic function, including quantitative pupillometric indices and trigeminovascular reflex (TVR) assessment via optical imaging to extend the currently available standardized autonomic reflex screen (ARS). Migraine HA serves as an ideal candidate disease in which to test our expanded autonomic testing battery. Alterations in both cardiovascular and craniofacial measures have been demonstrated during and between migraine attacks. However, the findings have been mixed, generating equipoise that we hope to resolve. One possible reason could be that the severity and pattern of autonomic disruption in migraineurs evolves as the disease progresses. Yet a vast majority of studies do not formally assess disease burden. Our published and preliminary data show significant differences in TVR and pupillary responses between episodic (EM) and chronic migraine (CM; >2 HA/week) and from healthy, non-HA (NH) controls. Thus, migraine autonomic symptoms appear to scale with disease burden; this may explain the disparate results in the migraine literature. We propose a test of this overall hypothesis, utilizing standardized autonomic assessment paired with pupillometry and our novel optical TVR assessment, to quantitatively characterize features of cardiovascular and craniofacial autonomic physiology in migraine HA across the spectrum of disease severity.
TRAVEL FELLOWSHIPS

The American Autonomic Society is committed to supporting trainees and junior members of the society seeking to pursue a career in clinical or basic autonomic research – one way in which this is achieved is through travel fellowships provided by the society and our sponsors to facilitate trainee attendance and presentation at American Autonomic Society meetings. Here is a list of 2017 awardees and the great work they are conducting:

STREETEN TRAVEL FELLOWSHIP AWARD

AWARDEE: Nataliia Nazarenko
PRESENTATION: In-vivo measurement of brainstem and hypothalamic centers involved in blood pressure regulation in humans: a high-resolution fMRI study with LBNP

FMS/PEŇÁZ WESSELING TRAVEL FELLOWSHIP AWARDS

AWARDEE: Jacqueline Limberg
PRESENTATION: Muscle sympathetic nerve activity is not altered by experimental sleep restriction in healthy humans

AWARDEE: Naima Covassin
PRESENTATION: Blood pressure response to experimental sleep restriction: effect of family history of hypertension

THE DON SUMMERS MEMORIAL MULTIPLE SYSTEM ATROPHY TRAVEL AWARD

AWARDEE: Jose-Alberto Palma
PRESENTATION: Preliminary results of the Global Multiple System Atrophy Registry (GLOMSAR): an internet-based patient-reported registry
AAS-LUNDBECK TRAVEL FELLOWSHIP AWARDS

AWARDEE: Guillaume Lamotte
PRESENTATION: Renal conversion of L-dihydroxyphenylserine (droredopa) to norepinephrine in levodopa-untreated patients with neurogenic orthostatic hypotension

AWARDEE: Jessica Ng
PRESENTATION: Vasovagal syncope patients have a reduced quality of life and greater psychological distress compared to healthy subjects

AWARDEE: Brock Preheim
PRESENTATION: Initiation of droxidopa during hospital admission for management of refractory neurogenic orthostatic hypotension in severely ill patients

AWARDEE: Ben Illigens
PRESENTATION: QT interval lengthening and recovery following experimental hypoglycemia using the hyperinsulinemic clamp procedure

AWARDEE: Vera-Ellen Lucci
PRESENTATION: The use of lidocaine lubricant in bowel management practices does not improve autonomic dysreflexia in spinal cord injury: a randomized clinical trial

AWARDEE: Jorge Celedonio
PRESENTATION: Nitric oxide function in POTS during high and low sodium diets
AAS members are invited to join us for our Patient & Family Education Course in the Dunes Ballroom on November 4th from 3:00pm-6:00pm.

Dysautonomia International is a 501(c)3 non-profit that funds research, physician education, public awareness, and patient empowerment programs to improve the lives of individuals living with autonomic disorders. Stop by our booth to learn about the resources we offer medical professionals.

- Research Grants & Collaborations
- Professional Education Courses
- Monthly Webinars from Autonomic Experts
- Educational Content & Support Groups for Your Patients
- Legislative Advocacy

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The Dysautonomia Project is a grass-roots initiative dedicated to educating physicians, patients and communities about dysautonomia in an effort to reduce the average time of diagnosis.

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**Theravance Biopharma** is conducting research to learn whether TD-9855, a norepinephrine reuptake inhibitor, can be used to treat neurogenic orthostatic hypotension (nOH).

A phase 2 study evaluating acute and sustained pressor effects in subjects with nOH due to multiple system atrophy (MSA), Pure Autonomic Failure (PAF) or Parkinson’s Disease (PD) is currently enrolling.

More information about the study can be found at: 🌐www.nohmsaclinicaltrial.com or at clinicaltrials.gov: NCT02705755
# DAVID H. P. STREETEN MEMORIAL FUND

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FELLOWS OF THE AMERICAN AUTONOMIC SOCIETY (FAAS)

We welcome the 2017 Fellows of the American Autonomic Society (FAAS). Fellowship is based on outstanding credentials, achievements and contributions to the society. Those elected to fellowship status will come from all specialties within the society, including (but not limited to) clinicians, allied health professionals and scientists. Fellowship is bestowed upon society members who manifest active participation in the AAS and have made exemplary contributions to the field of autonomic physiology and medicine as educators, researchers, or administrators.

2017 FAAS Awardees:
Victoria Claydon, Ph.D.
Christopher Gibbons, M.D.
Janice Gilden, M.D.
David Goldstein, M.D., Ph.D.

2016 FAAS Awardees:
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Roy Freeman, M.D.
Imad Jarjour, M.D.
Horacio Kaufmann, M.D.
Phillip Low, M.D.
David Robertson, M.D.
PARTICIPANT LIST:

Dr. Hala Abdallah  
Department of Pediatrics  
Children’s Heart Institute  
PO Box 10066  
Mclean, VA 22102, USA  
P: 703-608-9079  
E: hala@chiva.us

Dr. Hasan Abdallah  
Department of Cardiology  
Children’s Heart Institute  
PO Box 10066  
Mclean, VA 22102, USA  
P: 703-628-1114  
E: abdallah@chiva.us

Dr. Thomas Ahern  
Department of Cardiology  
Scripps Clinic  
9898 Genesee Ave  
La Jolla, CA 92037, USA  
P: 858-824-5003  
E: ahern.thomas@scrippshealth.org

Dr. Sabih Alam  
Cardiology  
The Heartbeat Clinic  
7777 Forest Lane  
Bldg A Ste 236  
Dallas, TX 75230, USA  
P: 214-504-9942  
E: sabih1990@gmail.com

Dr. Mohammad Alnoor  
Department of Pediatrics  
Children’s Memorial Hermann Hospital  
3131 W Bellfort Ave #1105  
Houston, TX 77054, USA  
P: 206-226-1939  
E: alnoor.mohammad@gmail.com

Dr. Amy Arnold  
Department of Neural and Behavioral Sciences  
Penn State College of Medicine  
500 University Drive, Mail Code H109  
Hershey, PA 17033-0850, USA  
P: 717-531-3674  
E: aarnold5@hmc.psu.edu

Dr. Mark Badrov  
7232 Greenville Avenue  
Dallas, TX, 75231, USA  
P: 289-838-5912  
E: markbadrov@gmail.com

Mrs. Darlene Baerg  
Physical Therapy  
9324 118th Lane N  
Seminole, FL 33772, USA  
P: 727-804-8229  
E: destined@tampabay.rr.com

Miss Jacquie Baker  
Department of Clinical Neurology  
London Health Sciences Centre  
University Hospital  
339 Windermere Road  
London, ON, N6A 5A5, CANADA  
P: 519-663-3337  
E: jbaker62@uwo.ca

Miss Saharnaz Balegh  
Department of Psychology  
McGill University  
1205 Dr Penfield Ave  
Montreal, QC, H3A 1B1, CANADA  
P: 514-812-3074  
E: saharnaz.balegh@mail.mcgill.ca
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<th>Participant</th>
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<tr>
<td>Dr. Jeffrey Boris</td>
<td>Department of Pediatrics</td>
<td>Children’s Hospital of Philadelphia</td>
<td>215-590-3180</td>
<td><a href="mailto:borisj@email.chop.edu">borisj@email.chop.edu</a></td>
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<tr>
<td></td>
<td>Division of Cardiology</td>
<td>3401 Civic Center Blvd.</td>
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<td></td>
<td>Philadelphia, PA 19104, USA</td>
<td>P: 215-590-3180</td>
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<tr>
<td>Ms. Kate Bourne</td>
<td>Libin Cardiovascular Institute</td>
<td>University of Calgary</td>
<td>250-532-5507</td>
<td><a href="mailto:kbourne@uvic.ca">kbourne@uvic.ca</a></td>
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<tr>
<td></td>
<td>University</td>
<td>3280 Hospital Drive NW</td>
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<td>Calgary, AB, T2N 4N1, CANADA</td>
<td>P: 250-532-5507</td>
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<tr>
<td>Dr. Jean-François Brunet</td>
<td>Institut de Biologie de l’École Normale Supérieure</td>
<td>INSERM, CNRS, École Normale Supérieure</td>
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<td>Paris Sciences et Lettres Research University</td>
<td>Paris, 75005, FRANCE</td>
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<td>Department of General Medicine</td>
<td>Christchurch Hospital</td>
<td>64-21-666495</td>
<td><a href="mailto:jenny.butler@cdhb.health.nz">jenny.butler@cdhb.health.nz</a></td>
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<td>Riccarton Avenue</td>
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<td>Christchurch, Canterbury 8011</td>
<td>NEW ZEALAND</td>
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<tr>
<td>Dr. Jorge Celedonio</td>
<td>Department of Medicine</td>
<td>Vanderbilt University Medical Center</td>
<td>615-322-3304</td>
<td><a href="mailto:jorge.celedonio@vanderbilt.edu">jorge.celedonio@vanderbilt.edu</a></td>
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<td>536 Robinson Research Building</td>
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<td>Prof. Mark Chapleau</td>
<td>Department of Internal Medicine</td>
<td>University of Iowa Carver College of Medicine</td>
<td>319-335-8958</td>
<td><a href="mailto:mark-chapleau@uiowa.edu">mark-chapleau@uiowa.edu</a></td>
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<td>Department of Internal Medicine</td>
<td>200 Hawkins Drive</td>
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<tr>
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<td>University of Iowa Carver College of Medicine</td>
<td>Iowa City, IA 52242, USA</td>
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<tr>
<td>Dr. Ian Butler</td>
<td>Department of Pediatrics</td>
<td>UTHealth</td>
<td>713-500-7165</td>
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<td>Department of Pediatrics</td>
<td>6410 Fannin Street, Suite 732</td>
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<tr>
<td>Dr. Robert Brodbeck</td>
<td>Medical Affairs</td>
<td>Lundbeck</td>
<td>201-220-3876</td>
<td><a href="mailto:rbro@lundbeck.com">rbro@lundbeck.com</a></td>
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<tr>
<td>Dr. Shari Bornstein</td>
<td>Department of General Internal Medicine</td>
<td>Mayo Clinic</td>
<td>847-684-6175</td>
<td><a href="mailto:bornstein.shari@mayo.edu">bornstein.shari@mayo.edu</a></td>
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Dr. Thomas Chelimsky  
Department of Neurology  
Froedtert and the Medical College of Wisconsin  
9200 W Wisconsin Ave  
Milwaukee, WI 53226, USA  
P: 216-255-1677  
E: tchelimsky@mcw.edu

Dr. Kamal Chemali  
Department of Neurology  
Eastern Virginia Medical School  
Sentara Healthcare  
600 Gresham Drive, Suite 8610  
Norfolk, VA 23507, USA  
P: 440-223-1931  
E: krchemal@sentara.com

Dr. William P. Cheshire  
Department of Neurology  
Mayo Clinic  
4500 San Pablo Rd  
Jacksonville, FL 32224, USA  
P: 904-953-2000  
E: cheshire@mayo.edu

Dr. Tae Chung  
PM&R and Neurology  
Johns Hopkins University  
Johns Hopkins Bayview Medical Center  
4940 Eastern Ave, Asthma Allergy 1A62  
Baltimore, MD 21224, USA  
P: 347-281-0443  
E: tchung7@jhmi.edu

Dr. Victoria Claydon  
Department of Biomedical Physiology and Kinesiology  
Simon Fraser University  
Faculty of Science  
Burnaby, BC, V5A 1S6, CANADA  
P: 778-782-8513  
E: victoria_claydon@sfu.ca

Dr. Glen Cook  
Department of Neurology  
Naval Medical Center Portsmouth  
620 John Paul Jones Cir  
Portsmouth, VA 23323, USA  
P: 734-604-2115  
E: glen.asf@gmail.com

Dr. Elizabeth Coon  
Department of Neurology  
Mayo Clinic  
200 First Street SW  
Rochester, MN 55905, USA  
P: 507-266-3544  
E: coon.elizabeth@mayo.edu

Dr. Pietro Cortelli  
IRCCS-ISNB, PADG1, Ospedale Bellaria  
DIBINEM University of Bologna  
Via Alessandro Fleming, 5  
Bologna, 40141, ITALY  
P: 39-0514966929  
E: pietro.cortelli@unibo.it

Dr. Melissa Cortez  
Department of Neurology  
University of Utah  
729 Arapeen Drive  
Salt Lake City, UT 84108, USA  
P: 801-587-3848  
E: melissa.cortez@hsc.utah.edu

Dr. Naima Covassin  
Department of Cardiovascular Medicine  
Mayo Clinic  
200 First Street SW  
Rochester, MN 55905, USA  
P: 507-255-8897  
E: covassin.naima@mayo.edu
DR. JOSÉ CRİADO
Department of Neurology, Autonomic Neuro Lab
Scripps Clinic
John R Anderson V Medical Pavilion
9898 Genesee Ave, La Jolla, CA 92075, USA
P: 858-824-5474
E: criado.jose@scrippshealth.org

MR. DON CROUSE
MSA Coalition
9935-D Rea Road, #212
Charlotte, NC 28277, USA
P: 866-737-4999
E: dcrouse@msacoalition.org

DR. CAITLIN D’SOUZA
Department of Neurology
Mayo Clinic
4500 San Pablo Rd
Jacksonville, FL 32224, USA
P: 904-953-2000
E: d’souza.caitlin@mayo.edu

MR. RAMSEY DADA
Department of Cardiology
The Heartbeat Clinic
7777 Forest Lane
Bldg A Ste 236
Dallas, TX 75230, USA
P: 214-504-9942
E: ramseydada@gmail.com

DR. LAURA DALLA VECCHIA
Department of Cardiology
IRCCS Istituti Clinici Scientifici Maugeri via Camaldoli 64
Milan, 20139, ITALY
P: 39-332-0000000
E: laura.dallavecchia@icsmaugeri.it

MISS CELESTE DE CAMARGO
Department of Neurology
Faculdade de Medicina do ABC (FMABC)
Rua Batataes 453 Ap 31, Jd Paulista
Sao Paulo, 1423010, BRAZIL
P: 55-11-991190470
E: celesteny@gmail.com

MR. JELLE DE JONG
Department of Cardiology
Academic Medical Centre, Amsterdam
Meibergdreef 9
Amsterdam, 1105AZ, NETHERLANDS
P: 31-628-654117
E: j.s.dejong@amc.uva.nl

MISS BEATRICE DE MARIA
IRCCS Istituti Clinici Scientifici Maugeri
Via Camaldoli 64
Milan, 20138, ITALY
P: 39-02-5100000
E: beatrice.demaria@icsmaugeri.it

PROF. ANDRE DIEDRICH
Autonomic Dysfunction Center
Vanderbilt University
1161 21st Avenue South, Suite AA3228
MCN
Nashville, TN 37232-2195, USA
P: 615-343-6499
E: andre.diedrich@vanderbilt.edu

MR. BRETT DOWNING
Department of Neurology
Lundbeck
Six Parkway North, Suite 400
Deerfield, IL 60015, USA
P: 617-755-9503
E: bdow@lundbeck.com
PARTICIPANT LIST:

Ms. Toni Gehrking
Department of Neurology
Mayo Clinic
200 First Street SW
Rochester, MN 55905, USA
P: 507-284-4462
E: gehrking.tonette@mayo.edu

Dr. Christopher Gibbons
Department of Neurology
Harvard Medical School
Beth Israel Deaconess Medical Center
185 Pilgrim Rd, Palmer 111
Boston, MA 2215, USA
P: 617-632-8454
E: cgibbons@bidmc.harvard.edu

Dr. Janice Gilden
Department of Medicine/Endocrinology
Rosalind Franklin University of Medicine and Science/Chicago Medical School
3001 Grennbay Road, JAL FHCC
North Chicago, IL 60064, USA
P: 224-610-7002
E: janice.gilden@rosalindfranklin.edu

Dr. James Glenn
Department of Cardiology
Medical University of South Carolina
114 Dought Street
Charleston, SC 29425, USA
P: 843-437-0521
E: glennja@musc.edu

Ms. Kimberly Glisson
Lundbeck
Six Parkway North
Deerfield, IL 60015, USA
P: 847-282-1000
E: lerr@lundbeck.com

Dr. Elisabeth Golden
Department of Neurology and Neurotherapeutics
UT Southwestern
5323 Harry Hines Blvd, Mail Code 9036
Dallas, TX 75209, USA
P: 903-316-5843
E: elisabeth.golden@phhs.org

Dr. David Goldstein
Clinical Neurocardiology Section
CNP/DIR/NINDS/NIH
9000 Rockville Pike
Bldg 10, Rm 5N220
Bethesda, MD 20892-1620, USA
P: 301-496-2103
E: goldsteind@ninds.nih.gov

Dr. Renato Gonik
Department of Neurology
University of Florida
PO Box 100296
Gainesville, FL 32610, USA
P: 806-789-4939
E: rgonik@ufl.edu

Dr. Alejandra Gonzalez-Duarte
Instituto Nacional de Ciencias Médicas y Nutrición Salvador Zubirán
Av. Vasco de Quiroga #15
Belisario Domínguez Sección XVI, Tlalpan
México City DIF, CP14080, MEXICO
E: gonzalezduarte@aol.com

Mr. Stephen Gorny
Lundbeck NA
7706 Jackson Pond Lane
Charlotte, NC 28273, USA
P: 410-952-6162
E: stgo@lundbeck.com
Dr. Bishoy Goubran  
Division of Clinical & Translational Research  
Larkin Community Hospital  
7031 SW 62nd Ave  
South Miami, FL 33143, USA  
E: bgoubran@larkinhospital.com

Miss Jackie Gully  
Dysautonomia International  
67 Woodlawn Ave  
East Moriches, NY 11940, USA

Dr. Jack Grider  
Department of Physiology & Biophysics  
VCU Program in Enteric Neuromuscular Sciences  
Virginia Commonwealth University  
Box 80551, Richmond, VA 23298, USA  
P: 804-828-1853  
E: john.grider@vcuhealth.org

Dr. Juan Guzman  
Department of Medicine  
McMaster University  
237 Barton Street East  
McMaster Wing Room 601  
Hamilton, ON, L8L2X2, CANADA  
P: 905-521-2100  
E: guzmanjc@mcmaster.ca

Prof. Carl-Albrecht Haensch  
Department of Neurology  
Kliniken Maria Hilf Mönchengladbach  
Bergstr. 79  
Mönchengladbach, 41063, GERMANY  
P: 49-2161-8923000  
E: carl-albrecht.haensch@mariahilf.de

Ms. Renee Hagerty  
Lundbeck  
Six Parkway North, Suite 400  
Deerfield, IL 60015, USA  
P: 802-881-3115  
E: rhag@lundbeck.com

Dr. Ronald Harper  
Department of Neurobiology  
David Geffen School of Medicine, UCLA  
10833 Le Conte Ave  
Los Angeles, CA 90095-1763, USA  
P: 310-825-5303  
E: rharper@ucla.edu

Mrs. Carissa Heine  
Lundbeck  
4 Parkway North  
Deerfield, IL 60015, USA  
P: 224-551-9001  
E: crhn@lundbeck.com

Dr. Karsten Heusser  
Institute of Aerospace Medicine  
German Aerospace Center  
Linder Hoehe  
Cologne, 51147, GERMANY  
P: 49-511-53508443  
E: karsten.heusser@gmx.de

Dr. Arthur Hewitt  
Medical Affairs  
Lundbeck  
Six Parkway North, Suite 400  
Deerfield, IL 60015, USA  
P: 847-527-9645  
E: lhew@Lundbeck.com
PARTICIPANT LIST:

Dr. Geoffrey Heyer
Department of Neurology
Nationwide Children’s Hospital
700 Children’s Drive
Columbus, OH 43205, USA
P: 614-264-7208
E: geoffrey.heyer@nationwidechildrens.org

Prof. Max J. Hilz
Department of Neurology
University of Erlangen-Nuremberg
Schwabachanlage 6
Erlangen, 91054, GERMANY
P: 49-171-4440864
E: max.hilz@uk-erlangen.de

Miss Sarah Hissen
School of Science and Health
Western Sydney University
Locked Bag 1797
Penrith, NSW 2751, AUSTRALIA
P: 614-32-347332
E: s.hissen@westernsydney.edu.au

Miss Brooke Hockin
Dept of Biomedical Physiology and
Kinesiology, Simon Fraser University
8888 University Dr., 8512 - Shrum
Science K Building,
Burnaby, BC, V5A 1S6, CANADA
P: 778-874-1652
E: brookeh@sfu.ca

Dr. Seth Holwerda
Department of Health and Human
Physiology
University of Iowa
Iowa City, IA 52242, USA
P: 972-922-3230
E: sethholwerda@gmail.com

Dr. Katharina Hösl
Clinic of Psychiatry & Psychotherapy
Paracelsus Medical University Nuremberg
Klinikum Nuremberg
Prof. Ernst-Nathan-Str. 1
Nuremberg, 90419, GERMANY
P: 49-174-7613647
E: katharina.hoesl@klinikum-nuernberg.de

Dr. Ben Illigens
Department of Neurology
Beth Israel Deaconess Medical Center
185 Pilgrim Rd, Palmer/111 West
Boston, MA 02120, USA
P: 617-632-8454
E: illigens@bidmc.harvard.edu

Risa Isonaka
Clinical Neurocardiology Section
CNP/DIR/NINDS/NIH
9000 Rockville Pike
Bethesda, MD 20892-1620, USA
E: risa.isonaka@nih.gov

Dr. Kenneth Jackson
Lundbeck
7075 Lake Run Drive
Birmingham, AL 35242, USA
P: 205-789-0755
E: kjck@lundbeck.com

Prof. Giris Jacob
Medicine F
Tel Aviv “Sourasky” Medical Center
Weizmann 6
Tel Aviv, 64239, ISRAEL
P: 97236974285
E: jacobgi@tlvmc.gov.il
Miss Christy Jagdfeld
Dysautonomia International
67 Woodlawn Ave
East Moriches, NY 11940, USA

Dr. Safwan Jaradeh
Department of Neurology
Stanford University
Stanford Neuroscience Health Center
213 Quarry Rd
Palo Alto, CA 94304, USA
P: 650-723-5184
E: sjaradeh@stanford.edu

Dr. Imad Jarjour
Department of Pediatrics
Baylor College of Medicine
6701 Fannin Street CC1250
Houston, TX 77030, USA
P: 832-822-1750
E: jarjour@bcm.edu

Prof. Jens Jordan
Institute of Aerospace Medicine
German Aerospace Center
Linder Hoehe, ME-LTG
Cologne, 51147, GERMANY
P: 49-220-36013115
E: jens.jordan@dlr.de

Dr. Forouz Jowkar
1925 Aspen Dr #100B
Santa Fe, NM 87505, USA
P: 505-424-9172
E: forouzjowkar@gmail.com

Dr. Nancy Joy
Department of Cardiology
The Heartbeat Clinic
7777 Forest Lane, Bldg A Ste 236
Dallas, TX 75230, USA
P: 214-504-9942
E: nancykarot@gmail.com

Dr. Bahram Kakavand
Department of Cardiology
Nemours Children’s Hospital
13535 Nemours Parkway
Orlando, FL 32827, USA
P: 407-271-1427
E: bk0006@nemours.org

Dr. Horacio Kaufmann
Dysautonomia Center
Department of Neurology
NYU School of Medicine
530 First Ave, Suite 9Q
New York, NY 10016, USA
P: 212-263-7225
E: horacio.kaufmann@nyumc.org

Dr. Mohamed Kazamel
The University of Alabama at Birmingham
1720 7th Ave S, SC271
Birmingham, AL 35294, USA
P: 205-478-5586
E: mkazamel@uabmc.edu

Dr. Ramesh Khurana
Department of Medicine
Medstar Union Memorial Hospital
201 East University Parkway
Baltimore, MD 21218, USA
P: 410-554-2286
E: ramesh.khurana@medstar.net
PARTICIPANT LIST:

Ms. Jordan Kimmet  
Department of Clinical Pharmacology  
Vanderbilt University Medical Center  
1215 21st Avenue South  
Nashville, TN 32732, USA  
P: 615-343-4450  
E: jordan.m.kimmet@vanderbilt.edu

Dr. Lori Klamann  
Neurology Division  
Lundbeck  
704 Village Crossing Dr  
Chapel Hill, NC 27517, USA  
P: 919-946-2721  
E: lkmn@lundbeck.com

Dr. Kevin Kwok  
Theravance Biopharma  
901 Gateway Blvd  
South San Francisco, CA 94080, USA  
P: 415-608-9145  
E: kkwok@theravance.com

Dr. Steven Kymes  
Health Economics and Outcomes Research  
Lundbeck  
Six Parkway North, Suite 400  
Deerfield, IL 60048, USA  
P: 224-727-7548  
E: skym@lundbeck.com

Dr. Michael LaFountaine  
School of Health and Medical Sciences  
Seton Hall University  
400 South Orange Ave  
McQuaid Hall, Room 203A  
South Orange, NJ 07079, USA  
P: 973-275-2918  
E: lafounmi@shu.edu

Dr. Guillaume Lamotte  
Department of Neurology  
Medstar Georgetown University Hospital  
3800 Reservoir Rd NW  
Washington, DC 20007, USA  
P: 312-434-3854  
E: guillaumelamotte14@gmail.com

Dr. Robert Larson  
Department of Internal Medicine  
University of Iowa Carver College of Medicine  
200 Hawkins Drive 608 MRC  
Iowa City, IA 52242, USA  
P: 319-335-7683  
E: robert-larson@uiowa.edu

Dr. Sam Lee  
Normalyte  
706 N Arbor Drive  
Louisville, KY 40223, USA  
P: 502-558-1174  
E: samlee@normalyte.com

Mrs. Susan Lehner  
Lundbeck  
Six Parkway North  
Deerfield, IL 60015, USA  
P: 513-505-5366  
E: sleh@lundbeck.com

Dr. Ronald Leppanen  
Department of Clinical Neurophysiology  
Knoxville Neurology Clinic  
2200 Sutherland Avenue  
Knoxville, TN 37919, USA  
P: 865-382-1234  
E: leppanen@aol.com
Dr. Jacqueline Limberg  
Department of Nutrition & Exercise Physiology  
University of Missouri  
520 Hitt Street, 311 Gwynn Hall  
Columbia, MO 65211, USA  
P: 573-882-2420  
E: limbergj@missouri.edu

Dr. Mao Liu  
Department of Neurology  
Uniklinikum Erlangen  
Schwabachanlage 6  
Erlangen, 91054, GERMANY  
P: 49-176-75347494  
E: mao.liu@uk-erlangen.de

Mr. Matthew Lloyd  
Department of Biomedical Physiology and Kinesiology  
Simon Fraser University  
520 Cottonwood Ave, Apt 308  
Coquitlam, BC, V3J 2R6, CANADA  
P: 778-558-7476  
E: mgl1@gmail.com

Dr. Phillip Low  
Department of Neurology  
Mayo Clinic  
200 First Street SW  
Rochester, MN 55905, USA  
P: 507-284-3375  
E: low@mayo.edu

Ms. Vera-Ellen Lucci  
Department of Biomedical Physiology and Kinesiology  
Simon Fraser University  
8888 University Drive, SSC K9624  
Burnaby, BC, V5A 1S6, CANADA  
P: 905-745-1981  
E: vlucci@sfu.ca

Dr. Delia Mancoci  
Lundbeck  
Six Parkway North  
Deerfield, IL 60015, USA  
P: 586-909-8245  
E: dmmd@lundbeck.com

Ms. Erin Marriott  
Department of Pediatric Cardiology  
UW Hospital  
1675 Highland Ave, MC C200  
Madison, WI 53593, USA  
P: 608-556-0388  
E: emarriott@uwhealth.org

Mr. Jose Martinez  
Department of Neurology  
NYU School of Medicine  
NYU Langone Health, Dysautonomia Ctr.  
530 First Avenue, Suite 9Q  
New York, NY 10016, USA  
P: 212-263-7225  
E: jose.martinez@nyumc.org

Shawn May  
Lundbeck  
Six Parkway North  
Deerfield, IL 60015, USA  
E: smay@lundbeck.com

Mr. Kevin McNeely  
9 North Park Circle, Apt G  
Brookpark, OH 44142, USA  
P: 440-537-9766  
E: kevinmcneeleyconsulting@gmail.com
PARTICIPANT LIST:

Dr. Marvin Medow
Department of Pediatrics
New York Medical College
19 Bradhurst Ave, Suite 1600 South
Hawthorne, NY 10532, USA
P: 914-593-8886
E: marvin_medow@nymc.edu

Dr. Adeel Memon
Department of Neurology
University of Alabama, School of Medicine
1720 7th Avenue South
Birmingham, AL 35233, USA
P: 205-767-2554
E: amemon@uabmc.edu

Dr. Reshef Meshulam
Internal Medicine F
Tel-Aviv Medical Center
26 David Remez St
Givataiim, ISRAEL
P: 972-54-3318431
E: reshefm87@gmail.com

Dr. Mitchell Miglis
Department of Neurology
Stanford University
213 Quarry Road
Palo Alto, CA 94304, USA
P: 202-425-5934
E: mmiglis@stanford.edu

Dr. Amanda Miller
Department of Neural and Behavioral Sciences
Penn State College of Medicine
500 University Drive, Room C3738
Hershey, PA 17033, USA
P: 717-531-0003 x286490
E: aross1@pennstatehealth.psu.edu

Dr. Karla Minota
Department of Neurology
Mayo Clinic
200 First Street SW
Rochester, MN 55905, USA
P: 507-284-8863
E: minota.karla@mayo.edu

Dr. Kristal Munez
Department of Cardiology
The Heartbeat Clinic
7777 Forest Lane, Bldg A Ste 236
Dallas, TX 75230, USA
P: 214-504-9942
E: munezkristal@gmail.com

Dr. Mohamad Asaad Nasri
Department of Cardiology
The Heartbeat Clinic
7777 Forest Lane, Bldg A Ste 236
Dallas, TX 75230, USA
P: 214-504-9942
E: nasriasaad@gmail.com

Ms. Nataliia Nazarenko
Institute for Neuroradiology
Hannover Medical School
Carl-Neuberg-Strasse, 1
Hanover, 30625, GERMANY
P: 49-157-58085941
E: nazarenko.nataliia@mh-hannover.de

Miss Jessica Ng
Department of Cardiac Sciences
University of Calgary
3280 Hospital Dr NW, HRIC GAC 82
Calgary, AB, T2N 4Z6, CANADA
P: 604-417-8118
E: jessica.ng@ucalgary.ca
Dr. Lucy Norcliffe-Kaufmann  
NYU School of Medicine  
530 First Ave, Suite 9Q  
New York, NY 10016, USA  
P: 212-263-7225  
E: lucy.norcliffe-kaufmann@nyumc.org

Prof. Mohammed Numan  
Department of Pediatric Cardiology  
The University of Texas Health Science Center-Houston  
6410 Fannin Street, Suite 425  
Houston, TX 77030, USA  
P: 713-591-8775  
E: mtnuman@yahoo.com

Mr. Donal O’Leary  
Department of Physiology  
Wayne State University  
421 E. Canfield, Elliman Bldg, Rm 2241  
Detroit MI, 48201, USA  
P: 313-577-8649  
E: doleary@med.wayne.edu

Dr. Luis Okamoto  
Department of Medicine  
Vanderbilt University Medical Center  
2222 Pierce Ave, 560A PRB  
Nashville, TN 37232, USA  
P: 615-484-3458  
E: luis.e.okamoto@vanderbilt.edu

Prof. Brian Olshansky  
University of Iowa  
4344 Maier Ave SW  
Iowa City, IA 52240, USA  
P: 319-688-0576  
E: brian-olshansky@uiowa.edu

Dr. Jose-Alberto Palma  
Department of Neurology  
New York University School of Medicine  
NYU Dysautonomia Center  
530 First Avenue, Suite 9Q  
New York, NY 10016, USA  
P: 212-263-7225  
E: palmaj02@nyumc.org

Prof. Ki Jong Park  
Department of Neurology, College of Medicine, Gyeongsang National University  
15, Jinju-daero 816beon-gil  
Jinju-si, Gyeongsangnam-do, 52727  
SOUTH KOREA  
P: 82-1093420267  
E: pkjong@gnu.ac.kr

Dr. Amanda Peltier  
Department of Neurology  
Vanderbilt University Medical Center  
A-0118 Medical Center North, VUMC  
Nashville, TN 37232-2551, USA  
P: 616-715-4775  
E: amanda.peltier@vanderbilt.edu

Cara Petros  
Lundbeck  
Six Parkway North  
Deerfield, IL 60015, USA

Mr. Brock Preheim  
Department of Clinical Pharmacology  
Division of Clinical Pharmacology  
Vanderbilt University  
506A Robinson Research Building  
Nashville, TN 37232, USA  
P: 615-499-2008  
E: brock.a.preheim@vanderbilt.edu
PARTICIPANT LIST:

Dr. Satish Raj  
Department of Cardiac Sciences  
University of Calgary  
GAC70, HRIC Building  
3280 Hospital Drive NW  
Calgary, AB, T2N 4Z6, CANADA  
P: 403-210-6152  
E: satish.raj@ucalgary.ca

Dr. David Robertson  
Director of Clinical Research Center  
Vanderbilt University Medical Center  
1161 21st Ave S, AA3228 MCN  
Nashville, TN 37232, USA  
P: 615-343-6499  
E: david.robertson@vanderbilt.edu

Mr. Abhijit (Aby) Ramachandran  
Global Development  
Theravance Biopharma  
901 Gateway Blvd  
South San Francisco, CA 94080, USA  
P: 817-849-0175  
E: aramachandran@theravance.com

Prof. Chester Ray  
Department of Nutrition, Food & Exercise Sciences  
Florida State University  
120 Convocation Way, 436 Sandels Bldg  
Tallahassee, FL 32306-1493, USA  
P: 850-644-1850  
E: caray@fsu.edu

Mr. Ad Ramaekers  
Finapres Medical Systems  
Institutenweg 25  
Enschede, 7521 PH  
THE NETHERLANDS  
P: 31-20-6090974  
E: ad.ramaekers@finapres.com

Mr. James Russell  
Department of Neurology  
University of Maryland  
110 S. Paca St, 3rd Floor  
Baltimore, MD 21201, USA  
P: 410-328-3100  
E: jrussell@som.umaryland.edu

Prof. Sankanika Roy  
Autonomous Labor, Department of Neurology  
University of Erlangen-Nuremberg  
Schwabachanlage 6  
Erlangen, 91054, GERMANY  
P: 49-9131-8536006  
E: sankanika.roy@uk-erlangen.de

Dr. Rasna Sabharwal  
Department of Internal Medicine  
University of Iowa  
627 MRC, 501 Newton Road  
Iowa City, IA 52242, USA  
P: 319-335-7674  
E: rasna-sabharwal@uiowa.edu

Dr. David Sabharwal  
Phoenix Neurological Associates  
5090 N 40th Street, Suite 250  
Phoenix, AZ 85018, USA  
P: 602-258-3354  
E: david.saperstein@gmail.com

Ms. Ann Schmeichel  
Department of Neurology  
Mayo Clinic  
200 First Street SW  
Rochester, MN 55905, USA  
P: 507-284-8863  
E: schmeichel.ann@mayo.edu
PARTICIPANT LIST:

Dr. Wolfgang Singer  
Department of Neurology  
Mayo Clinic  
200 First Street SW  
Rochester, MN 55905, USA  
P: 507-284-4546  
E: singer.wolfgang@mayo.edu

Ms. Peggy Skinner  
WR Medical Electronics Co  
1700 Gervais Avenue  
Maplewood, MN 55109, USA  
P: 651-604-8465  
E: pas@wrmed.com

Mr. David Sletten  
Department of Neurology  
Mayo Clinic  
200 First Street SW  
Rochester, MN 55905, USA  
P: 507-266-2681  
E: sletten.david@mayo.edu

Dr. Howard Snapper  
Department of Cardiology  
Wellstar Health System, Atlanta  
3258 Twisted Branches Lane  
Marietta, GA 30068, USA  
P: 770-349-5200  
E: hjsnap@gmail.com

Prof. Julian Stewart  
Department of Pediatrics and Physiology  
New York Medical College  
19 Bradhurst Ave, Suite 1600  
Hawthorne, NY 10532, USA  
P: 914-593-8888  
E: julian_stewart@nymc.edu

Ms. Lauren Stiles  
Dysautonomia International  
PO Box 596  
East Moriches, NY 11940, USA  
P: 631-871-9673  
E: lstiles@dysautonomiainternational.org

Mrs. Mariana Suarez  
Autonomic Research Lab  
Mayo Clinic  
200 First Street SW  
Rochester, MN 55902, USA  
P: 507-266-2304  
E: suarez.mariana@mayo.edu

Dr. Amer Suleman  
The Heartbeat Clinic  
7777 Forest Lane, Suite A236  
Dallas, TX 75230, USA  
P: 214-504-9942  
E: suleman.amer@gmail.com

Prof. Kenji Sunagawa  
Institute for Disruptive Cardiovascular Medicine  
Kyushu University  
3-1-1 Maidashi, Higashiku  
Fukuoka, 812-8512, JAPAN  
P: 81-92-642-6428  
E: sunagawa@cardiol.med.kyushu-u.ac.jp

Ms. Dibashree Tamuli  
Department of Physiology  
All India Institute of Medical Sciences (AIIMS)  
Room No. 2009  
New Delhi, 110029, INDIA  
P: 8800941876  
E: dibashree@gmail.com
PARTICIPANT LIST:

Mr. Ruihao Wang
Department of Neurology
University of Erlangen-Nuremberg
Schwabachanlage 6
Erlangen, 91054, GERMANY
P: 49-91318536006
E: wangruihao99@gmail.com

Dr. Jill Wecht
RR&D Center for the Medical
Consequences of Spinal Cord Injury
James J. Peters VA Medical Center
130 W Kingsbridge Rd, Room 7A-13
Bronx, NY 10468, USA
P: 718-584-9000 x3122
E: jm.wecht@va.gov

Dr. Debra Weese-Mayer
Dept of Pediatric Autonomic Medicine
Ann & Robert H. Lurie Children’s Hospital
of Chicago, Northwestern University
225 East Chicago Ave, Box 165
Chicago, IL 60611, USA
P: 312-227-3300
E: d-weese-mayer@northwestern.edu

Prof. Joseph Weir
Department of Health, Sport, and
Exercise Sciences
University of Kansas
1301 Sunnyside Ave, Robinson Ctr 104D
Lawrence, KS 66045, USA
P: 785-864-0784
E: joseph.weir@ku.edu

Ms. Mary Witzlib
Department of Gastroenterology
Children’s Hospital of Wisconsin
8915 W. Connell Ct.
Milwaukee, WI 53226, USA
P: 414-418-6661
E: mwitzlib@wi.rr.com

Mr. Wayne Yates
Global Development
Theravance Biopharma
901 Gateway Boulevard
South San Francisco, CA 94080, USA
P: 650-808-4118
E: wyates@theravance.com

Ms. Mary Yellick
Department of Neurology
Aurora Medical Center
975 N Port Washington Rd
Grafton, WI 53024, USA
P: 262-408-1831
E: mary.yellick@aurora.org

Ms. Anita Zeller
Autonomic Disorders Center
Mayo Clinic
200 First Street SW
Rochester, MN 55905, USA
P: 507-284-2090
E: zeller.anita@mayo.edu

Dr. Lindsay Zilliox
Department of Neurology
University of Maryland
110 S Paca Street, 3rd Floor
Baltimore, MD 21201, USA
P: 410-328-3100
E: lzilliox@som.umaryland.edu

Dr. Farid Zreik
Internal Medicine F
Tel-Aviv Sourasky
Weizmann 6
Tel Aviv, 64239, ISRAEL
P: 542123789
E: fareedzreik@gmail.com
MEMBERSHIP LIST:

Dr. Hala Abdallah  
Dysautonomia Department  
Children’s Heart Institute  
PO Box 10066  
Mclean, VA 22102, USA  
P: 703-608-9079  
E: hala@chiva.us

Dr. Hasan Abdallah  
Cardiology Department  
Children’s Heart Institute  
PO Box 10066  
Mclean, VA 22102, USA  
P: 703-628-1114  
E: abdallah@chiva.us

Dr. Thomas Ahern  
Department of Cardiology  
Scripps Clinic - Prebys Cardiovascular Institute  
9898 Genesee Ave  
La Jolla, CA 92037, USA  
P: 858-554-5039  
E: ahern.thomas@scrippscrippshealth.org

Dr. Erik Armitano  
Neurological Associates of WA  
13107 121st Way NE  
Kirkland, WA 98034, USA  
P: 425-899-6200  
E: erikrolando@yahoo.com

Dr. Amy Arnold  
Dept. of Neural & Behavioral Sciences  
Penn State College of Medicine  
500 University Drive  
PO Box 850, Mail Code H109  
Hershey, PA 17033, USA  
P: 717-531-3674  
E: aarnold5@hmc.psu.edu

Elizabeth Awe  
Department of Neurology  
Medical College of Wisconsin  
9200 W Wisconsin Avenue  
Milwaukee, WI 53226, USA  
P: 414-805-5437  
E: eawe@mcw.edu

Mr. Mark Badrov  
School of Kinesiology, Western University  
1151 Richmond St., Neurovascular Research Lab, Thames Hall 3110  
London, ON, N6A 3K7, CANADA  
P: 289-838-5912  
E: markbadrov@gmail.com

Miss Jacquie Baker  
Department of Clinical Neurology  
University Hospital  
339 Windermere Road  
London, ON, N6A 5A5, CANADA  
P: 519-663-3337  
E: jbaker62@uwoc.ca

Dr. Darryl Ballin  
5525 Etiwanda Ave #320  
Tarzana, CA 91356, USA  
P: 818-708-4848  
E: darryl.ballin@csimns.org

Dr. Jean Barbey  
CRB  
Social & Scientific Systems  
4040 Chancery Court NW  
Washington, DC 20007, USA  
P: 202-298-8219  
E: tczjb@aol.com
MEMBERSHIP LIST:

Dr. Franca Barbic
Department of Internal Medicine
Humanitas Research Hospital
Via Manzoni, 56
Rozzano, Milan, 20156, ITALY
P: 39-82247267
E: franca.barbic@humanitas.it

Dr. Eduardo Benarroch
Department of Neurology
Mayo Clinic
200 First Street SW
Rochester, MN 55905, USA
P: 507-284-1005
E: benarroch@mayo.edu

Dr. Ratna Bhavaraju-Sanka
Department of Neurology
UT Health Science Center at San Antonio
8300 Floyd Curl Drive
San Antonio, TX 78229, USA
P: 210-450-9700
E: bhavarajusan@uthscsa.edu

Ms. Kate Bourne
University of Calgary
102-3905 Quadra St
Victoria, BC, V8X 1J1, CANADA
P: 250-532-5507
E: kbourne@uvic.ca

Dr. KC Brennan
Department of Neurology
University of Utah
383 Colorow Drive, Room 364
Salt Lake City, UT 84103, USA
P: 801-581-8129
E: k.c.brennan@hsc.utah.edu

Dr. Meredith Bryarly
Department of Neurology
UT Southwestern
5323 Harry Hines Blvd, J3.102
Dallas, TX 75390, USA
P: 310-720-5528
E: meredith.bryarly@utsouthwestern.edu

Dr. Ian Butler
Department of Pediatrics/Child Neurology
UT Health Sciences Center at Houston
6410 Fannin, Suite 732
Houston, TX 77030, USA
P: 713-303-1514
E: ian.j.butler@uth.tmc.edu

Dr. Jenny Butler
Department of General Medicine
Christchurch Hospital
Private Bag 4710
Christchurch, Canterbury 8140, NZ
P: 64-21-666495
E: jenny.butler@cdhb.health.nz

Dr. Jason Carter
Kinesiology & Integrative Physiology Departments
Michigan Technological University
1400 Townsend Drive
Houghton, MI 49931, USA
P: 906-487-2715
E: jcarter@mtu.edu

Dr. Jorge Celedonio
Department of Clinical Pharmacology
Vanderbilt University
536 Robinson Research Building
Nashville, TN 37232, USA
P: 615-999-5990
E: jorge.celedonio@vanderbilt.edu
Dr. Mark Chapleau  
Department of Medicine  
University of Iowa College of Medicine  
200 Hawkins Drive  
Iowa City, IA 52242, USA  
P: 319-335-8958  
E: mark-chapleau@uiowa.edu

Dr. Gisela Chelimsky  
Department of Pediatric Gastroenterology  
Medical College of Wisconsin  
8701 Watertown Plank Road  
Milwaukee, WI 53226, USA  
P: 414-266-3693  
E: gchelimsky@mcw.edu

Dr. Thomas Chelimsky  
Department of Neurology  
Medical College of Wisconsin  
9200 W. Wisconsin Ave  
Milwaukee, WI 53226, USA  
P: 414-805-5246  
E: tchelimsky@mcw.edu

Dr. Kamal Chemali  
Department of Neurology  
Sentara/East Virginia Virginia  
Medical School  
600 Gresham Dr, Suite 8630  
Norfolk, VA 23507, USA  
P: 757-388-6105  
E: krchemal@sentara.com

Dr. William P. Cheshire  
Department of Neurology  
Mayo Clinic  
4500 San Pablo Road  
Jacksonville, FL 32224, USA  
P: 904-953-7229  
E: cheshire.william@mayo.edu

Dr. Kristine Chobanyan-Jurgens  
Institute for Clinical Pharmacology  
Hannover Medical School  
Carl-Neuberg-Str. 1  
Hannover, 30625, GERMANY  
P: 49-511-532-2725  
E: chobanyan.kristine@mh-hannover.de

Dr. Victoria Claydon  
Department of Biomedical Physiology  
and Kinesiology  
Simon Fraser University  
Burnaby, BC, B5A 1S6, CANADA  
P: 778-782-8513  
E: victoria_claydon@sfu.ca

Dr. Craig Coleby  
Departments of Internal Medicine,  
Pediatrics, and Sports Medicine  
Granger Medical Clinic  
12391 4000 W, Suite 100  
Riverton, UT 84065, USA  
P: 801-209-2988  
E: ccoleby@grangermedical.com

Dr. Glen Cook  
Department of Neurology  
Naval Medical Center Portsmouth  
620 John Paul Jones Circle  
Portsmouth, VA 23708, USA  
P: 757-953-2114  
E: glen.asf@gmail.com

Dr. Elizabeth Coon  
Department of Neurology  
Mayo Clinic  
200 First Street SW  
Rochester, MN 55905, USA  
P: 507-266-3544  
E: coon.elizabeth@mayo.edu
MEMBERSHIP LIST:

Dr. Pietro Cortelli  
IRCCS-ISNB, PADG1, Ospedale Bellaria  
DIBINEM University of Bologna  
Via Alessandro Fleming, 5  
Bologna, 40141, ITALY  
P: 39-0514966929  
E: pietro.cortelli@unibo.it

Dr. Melissa Cortez  
Department of Neurology  
University of Utah  
729 Arapeen Drive  
Salt Lake City, UT 84108, USA  
P: 801-587-3848  
E: melismc@gmail.com

Dr. Naima Covassin  
Department of Cardiovascular Medicine  
Mayo Clinic  
200 First Street SW  
Rochester, MN 55905, USA  
P: 507-255-8897  
E: covassin.naima@mayo.edu

Dr. Craig Crandall  
Department of Internal Medicine  
IEEM-Texas Health Presbyterian Hospital  
Dallas  
7232 Greenville Avenue, Suite 435  
Dallas, TX 75023, USA  
P: 214-345-4623  
E: craigcrandall@texashealth.org

Dr. Jose Criado  
Autonomic Neuro Lab  
Scripps Clinic  
10666 North Torrey Pines Road  
La Jolla, CA 92037, USA  
P: 858-554-8831  
E: criado.jose@scrippshealth.org

Dr. Timothy Curry  
Department of Anesthesiology  
Mayo Clinic  
200 First Street SW  
Rochester, MN 55905, USA  
P: 507-255-7481  
E: curry.timothy@mayo.edu

Dr. Jeremy Cutsforth-Gregory  
Department of Neurology  
Mayo Clinic  
200 First Street SW  
Rochester, MN 55905, USA  
P: 507-250-4889  
E: cutsforthgregory.jeremy@mayo.edu

Mr. Jelle de Jong  
Department of Cardiology  
Academic Medical Centre, Amsterdam  
Meibergdreef 9  
Amsterdam, 1105 AZ, NETHERLANDS  
P: 31-628654117  
E: j.s.dejong@amc.uva.nl

Miss Beatrice De Maria  
Via Camaldoli 64  
Milano, 20138, ITALY  
P: 39-3338995462  
E: beatrice.demaria@polimi.it

Dr. Raghuveer Dendi  
Department of Internal Medicine-Cardiology  
University of Kansas Hospital  
3901 Rainbow Boulevard, Suite G600  
Kansas City, KS 66160, USA  
P: 913-588-9406  
E: rdendi@kumc.edu
Dr. Rose Dotson  
Department of Neurology/Neuroscience  
Aurora Health Care  
975 Port Washington Rd, Suite 420  
Grafton, WI 53024, USA  
P: 262-329-8600  
E: rose.dotson@aurora.org

Dr. Shahram Ejtemaeimehr  
Department of Medicine, Division of Clinical Pharmacology  
Vanderbilt University Medical Center  
536 Robinson Research Building  
Nashville, TN 37232, USA  
P: 615-521-0808  
E: ejtemam@gmail.com

Ms. Lisa Erickson  
West Tennessee Neurology  
1217 Cordova Green Dr  
Cordova, TN 38018, USA  
P: 901-828-5063  
E: 5doggies@att.net

Dr. Suzanne Feigofsky  
Department of Cardiology/Electrophysiology  
Iowa Heart Center  
405 S Clark Street, Suite 205  
Carroll, IA 51401, USA  
P: 712-792-6500  
E: sfeigofsky@iowaheart.com

Dr. Igor Fernandes  
Dept. of Physiology & Pharmacology  
Fluminense Federal University  
rua Professor Hernani Pires de Melo  
101, Sala 106, Sao Domingos, Niteroi  
Rio de Janeiro, 24210-130, BRAZIL  
P: 55-21-26292403  
E: iafernandes@id.uff.br

Dr. Philip Fischer  
Department of Pediatrics  
Mayo Clinic  
200 First Street SW  
Rochester, MN 55905, USA  
P: 507-284-3373  
E: fischer.phil@mayo.edu

Dr. John Floras  
Department of Medicine  
University of Toronto  
600 University Ave, Suite 1614  
Toronto, ON, M5G 1X5, CANADA  
P: 416-586-8704  
E: john.floras@utoronto.ca

Dr. Fetnat Fouad-Tarazi  
Education Institute  
Cleveland Clinic CCLCM  
32985 Creekside Drive  
Cleveland, OH 44124, USA  
P: 216-312-3358  
E: fmft@aol.com

Dr. Qi Fu  
Department of Internal Medicine  
Division of Cardiology  
UT Southwestern Medical Center, IEEM  
Texas Health Presbyterian Hospital Dallas  
7232 Greenville Ave, Suite 435  
Dallas, TX 75231, USA  
P: 214-345-8125 | E: qifu@texashealth.org

Dr. Kana Fujii  
Department of Cardiovascular Medicine  
Kyushu University  
3-1-1 Maidashi, Higashiku  
Fukuoka City, 812-0054, JAPAN  
P: 92-642-5360  
E: fujikana@cardiol.med.kyushu-u.ac.jp
MEMBERSHIP LIST:

Dr. Christopher Gibbons  
Department of Neurology  
Beth Israel Deaconess Medical Center  
185 Pilgrim Road, Palmer 111  
Boston, MA 02215, USA  
P: 617-632-8454  
E: cgibbons@bidmc.harvard.edu

Dr. Janice Gilden  
Rosalind Franklin University of Medicine & Science  
The Chicago Medical School  
3001 Greenbay Rd (#111E), JAL FHCC  
North Chicago, IL 60644, USA  
P: 224-610-7002  
E: janice.gilden@rosalindfranklin.edu

Dr. James Glenn  
Department of Cardiology  
MUSC, Gazes Building  
114 Doughty Street  
Charleston, SC 29425, USA  
P: 843-792-3355  
E: glennja@musc.edu

Dr. Elisabeth Golden  
Department of Neurology and Neurotherapeutics  
UT Southwestern  
5323 Harry Hines Blvd, Mail Code 9036  
Dallas, TX 75390, USA  
P: 903-316-5843  
E: elisabeth.golden@phhs.org

Dr. David Goldstein  
Bldg 10, Rm 5N220  
CNP/DIR/NINDS/NIH  
9000 Rockville Pike  
Bethesda, MD 20892-1620, USA  
P: 301-496-2103  
E: goldsteind@ninds.nih.gov

Dr. Renato Gonik  
1436 Breakwater Terrace  
Hollywood, FL 33019, USA  
P: 806-789-4939  
E: rgonik@gmail.com

Dr. Victor Gordon  
Monash Neurology  
Monash Medical Centre  
246 Claydon Rd  
Claydon, Victoria, 3168, AUSTRALIA  
P: 61-4-0483-8753  
E: victor.gordon@monashhealth.org

Dr. Gerald Greer  
Arkansas Cardiology  
9501 Baptist Health Drive, Suite 600  
Little Rock, AR 72205, USA  
P: 501-227-7596  
E: sgreer@arcard.org

Dr. Blair Grubb  
Department of Cardiovascular Medicine  
University of Toledo Medical Center  
3000 Arlington Avenue  
Toledo, OH 43609, USA  
P: 419-383-3697  
E: blair.grubb@utoledo.edu

Dr. Juan Guzman  
Department of Medicine  
McMaster University, Hamilton General Hospital  
237 Barton Street East  
Hamilton, ON, L8L 2X2, CANADA  
P: 905-521-2100  
E: guzmanjc@mcmaster.ca
Dr. Carl-Albrecht Haensch  
Department of Neurology  
Kliniken Maria Hilf  
Bergstr. 79  
Moenchengladbach, 41063, GERMANY  
P: 49-2161-892-3000  
E: carl-albrecht.haensch@mariahilf.de

Dr. Yadollah Harati  
Department of Neurology  
Baylor College of Medicine  
7200 Cambridge St  
9th Floor, Suite 9A, MS BCM609  
Houston, TX 77030, USA  
P: 713-798-5993  
E: yharati@bcm.edu

Dr. Mark Harms  
Department of Internal Medicine  
University Medical Center Groningen  
HANZEPLEIN 1  
Groningen, 9700 RB, NETHERLANDS  
P: 31-50-3616161  
E: m.p.m.harms@umcg.nl

Dr. Ronald Harper  
Department of Neurobiology  
UCLA David Geffen School of Medicine  
10833 Le Conte Ave, CHS/78-113  
Los Angeles, CA 90095-1763, USA  
P: 310-825-5303  
E: rharper@ucla.edu

Dr. Arthur Hewitt  
Department of Medical Affairs  
Lundbeck  
8002 Pemsworth St  
Charlotte, NC 28277, USA  
P: 847-527-9645  
E: lhew@lundbeck.com

Dr. Geoffre Heyer  
Department of Pediatrics & Neurology  
Ohio State University, Nationwide  
Children’s Hosp  
700 Children’s Drive, ED-5  
Columbus, OH 43205, USA  
P: 614-722-4648  
E: geoffrey.heyer@nationwidechildrens.org

Prof. Max Hilz  
Clinical Dept. of Autonomic Neurology  
UCL Institute of Neurology (ION)  
The National Hospital for Neurology and Neurosurgery  
Camden, WC1N 3BG, UK  
P: 44-755-7289-561  
E: m.hilz@ucl.ac.uk

Miss Brooke Hockin  
Department of Biomedical Physiology and Kinesiology  
Simon Fraser University  
8888 University Drive  
Burnaby, BC, V5A 1S6, CANADA  
P: 778-874-1652  
E: brookeh@sfu.ca

Dr. Seth Holwerda  
Department of Health and Human Physiology  
University of Iowa, E102 FH  
Iowa City, IA 52242, USA  
P: 972-922-3230  
E: sethholwerda@gmail.com

Dr. Maria Hopman  
Department of Physiology  
Radboud University Medical Center  
PO Box 9101  
6500 HB, Nijmegen, NETHERLANDS  
P: 31-243-614200  
E: maria.hopman@radboudumc.nl
MEMBERSHIP LIST:

Mr. Yu Chen Hua  
No. 122, Xingye W. Rd  
Chiayi City 600  
West Dist, 60057, TAIWAN  
P: 886-5-2284209  
E: b8101142@yahoo.com.tw

Dr. Scott Hubers  
Department of Clinical Pharmacology  
Vanderbilt University Medical Center  
2200 Pierce Avenue  
566 Robinson Research Building  
Nashville, TN 37232, USA  
P: 320-309-8188  
E: huber137@gmail.com

Dr. Ben Illigens  
Department of Neurology  
Beth Israel Deaconess Medical Center  
185 Pilgrim Rd  
Palmer/111 West  
Boston, MA 02120, USA  
P: 617-632-8454  
E: illigens@bidmc.harvard.edu

Dr. Giris Jacob  
Department of Medicine  
Recanati Autonomic Dysfunction Center  
Tel Aviv “Sourasky” Medical Center and Faculty of Medicine, Tel Aviv University  
6 Weizmann St, Medicine F  
Tel Aviv, 64239, ISRAEL  
P: 972-527360217 | E: jacobgi@tlvmc.gov.il

Dr. David Jardine  
Department of General Medicine  
Christchurch Hospital  
Riccarton Ave  
Christchurch, Canterbury 8011, NEW ZEALAND  
P: 64-27-212-7403  
E: david.jardine@cdhb.govt.nz

Dr. Imad Jarjour  
Texas Children's Hospital  
6701 Fannin Street, Suite 1250  
Houston, TX 77030, USA  
P: 832-822-1750  
E: jarjour@bcm.edu

Dr. Lindsey Johnson  
Department of Pediatric Critical Care  
Halifax Health Medical Center  
303 North Clyde Morris Blvd, 6th Fl  
Fountain Tower  
Daytona Beach, FL 32114, USA  
P: 386-334-5363  
E: lindseymd@gmail.com

Dr. Lauren Jones  
2416 62nd Street NW  
Rochester, MN 55901, USA  
P: 515-291-1066  
E: lauren.jones6774@gmail.com

Dr. Jens Jordan  
German Aerospace Center  
Institute of Aerospace Medicine  
Linder Hoehe  
Cologne, 51147, GERMANY  
P: 49-220-36013115  
E: jens.jordan@dlr.de

Dr. Wishwa Kapoor  
Department of Medicine  
University of Pittsburgh Medical Center  
200 Lothrop Street  
Suite 933 West MUH  
Pittsburgh, PA 15213, USA  
P: 412-692-4821  
E: kapoorwn@upmc.edu
Dr. Divpreet Kaur  
Department of Neurology  
Penn State Hershey Medical Center  
30 Hope Drive  
Hershey, PA 17033, USA  
P: 717-531-1039  
E: dkaur@pennstatehealth.psu.edu

Dr. John Kelly  
5350 W. Devon  
Chicago, IL 60646, USA  
P: 773-631-6844  
E: kellycomments@aol.com

Dr. Ekta Khandelwal  
Department of Physiology  
All India Institute of Medical Sciences  
Gate No. 5, AIIMS, G.E. Road  
Rm 3119, 3rd Floor  
Tatibandh, Chhattisgarh Raipur, INDIA  
P: 91-8224014614  
E: khandelwaldrekta@aiimsraipur.edu.in

Dr. Ramesh Khurana  
Department of Medicine  
MedStar Union Memorial Hospital  
10780 Hickory Ridge Road  
Columbia, MD 21044, USA  
P: 410-997-3113  
E: ramesh_k_khurana@yahoo.com

Dr. Namee Kim  
Scripps Clinic  
9898 Genesee Ave, AMP 400  
La Jolla, CA 92037, USA  
P: 858-554-5319  
E: kim.namee@scrippshealth.org

Ms. Jordan Kimmet  
Department of Clinical Pharmacology  
Vanderbilt University Medical Center  
1215 21st Avenue South  
Vanderbilt Autonomic Dysfunction Clinic  
Nashville, TN 37232, USA  
P: 615-343-4450  
E: jordan.m.kimmet@vanderbilt.edu

Dr. Lindsey Lair  
700 US Highway 202 South, Rm 1189  
Raritan, NJ 08869, USA  
P: 917-763-6172  
E: lindsey.lair@gmail.com

Dr. Robert Larson  
Department of Internal Medicine  
University of Iowa Carver College of Medicine  
200 Hawkins Drive, 608 MRC  
Iowa City, IA 52242, USA  
P: 319-335-7683  
E: robert-larson@uiowa.edu

Dr. Peter Latchman  
Exercise Science Department  
Southern Connecticut State University  
501 Crescent Street  
New Haven, CT 06515-1355, USA  
P: 203-904-3623  
E: latchmanp1@southernct.edu

Dr. Ronald Leppanen  
Department of Clinical Neurophysiology  
Knoxville Neurology Clinic  
2200 Sutherland Ave  
Knoxville, TN 37919, USA  
P: 865-382-1234  
E: leppanen@aol.com
MEMBERSHIP LIST:

Dr. Benjamin Levine
Department of Internal Medicine
UT Southwestern Medical Center
7232 Greenville Avenue #435
Dallas, TX 75231, USA
P: 214-345-4619
E: benjaminlevine@texashealth.org

Dr. Jacqueline Limberg
Department of Anesthesiology
Mayo Clinic
200 First Street SW
Rochester, MN 55905, USA
P: 507-255-8380
E: limberg.jacqueline@mayo.edu

Dr. Mao Liu
Department of Neurology
Universitätsklinikum Erlangen
Schwabachanlage 6
Erlangen, 91054, GERMANY
P: 49-17675347494
E: mao.liu@uk-erlangen.de

Mr. Matthew Lloyd
Biomedical Physiology & Kinesiology
Simon Fraser University
8888 University Drive
Burnaby, BC, V5A 1S6, CANADA
P: 778-558-7476
E: mgl1@sfu.ca

Dr. Theophane Loughrey
1530 Star Point Lane
Naples, FL 34112, USA
P: 239-732-7981
E: tloug12434@aol.com

Dr. Phillip Low
Department of Neurology
Mayo Clinic
200 First Street SW
Rochester, MN 55905, USA
P: 507-284-3375
E: low@mayo.edu

Ms. Vera-Ellen Lucci
Department of Biomedical Physiology and Kinesiology
Simon Fraser University
8888 University Drive, K9625
Burnaby, BC, V5A 1S6, CANADA
P: 778-782-8560
E: vera-ellen_lucci@sfu.ca

Ms. Erin Marriott
Department of Pediatric Cardiology
UW Health
1675 Highland Ave, MC C200
Madison, WI 53792, USA
P: 608-556-0388
E: emarriott@uwhealth.org

Dr. Adeel Memon
Department of Neurology
UAB School of Medicine
1720 7th Avenue South, SC 440
Birmingham, AL 35233, USA
P: 205-767-2554
E: amemon@uabmc.edu

Dr. David Mendelowitz
Department of Pharmacology & Physiology
George Washington University
2300 Eye Street NW, Ross Hall 654
Washington, DC 20037, USA
P: 202-994-3466
E: dmendel@gwu.edu
Ms. Erin Moir  
Department of Kinesiology  
Western University  
1151 Richmond Street  
London, ON, N6A 3K7, CANADA  
P: 519-661-2111, Ext 88526  
E: mmoir@uwo.ca

Ms. Nataliia Nazarenko  
Institute for Neuroradiology  
Hannover Medical School  
Carl-Neuberg-Str. 1  
Hannover, 30625, GERMANY  
P: 49-157-58085941  
E: nazarenko.nataliia@mh.hannover.de

Dr. Patrick Nemechek  
Nemechek Consultative Medicine, Inc.  
4252 Verrado Way, Suite 103  
Buckeye, AZ 85396, USA  
P: 623-208-4226  
E: dr.nemechek@autonomicrecovery.com

Dr. Mohammed Numan  
Department of Pediatric Cardiology  
University of Texas  
6410 Fannin Street, Suite 425  
Houston, TX 77030, USA  
P: 713-500-5737  
E: mohammed.t.numan@uth.tmc.edu

Dr. Brian Olshansky  
Department of Cardiology  
Mercy Hospital - North Iowa  
Mason City, IA 50401, USA  
P: 319-331-0342  
E: brian-olshansky@uiowa.edu

Dr. Jose-Alberto Palma  
Department of Neurology  
NYU Dysautonomia Center  
530 First Avenue, Suite 9Q  
New York, NY 10016, USA  
P: 212-263-7225  
E: palmaj02@nyumc.org

Dr. Ki-Jong Park  
Department of Neurology, Changwon  
Gyeongsang National University Hospital  
11, Samjeongja-ro, Seongsan-gu  
Changwon-si  
Gyeongsangnam-do, 51472, South Korea  
P: 82-552103810  
E: pkjong@gnu.ac.kr

Dr. Lauren Phillips  
Department of Neurology  
UT Southwestern Medical Center  
5323 Harry Hines Blvd, J3.118C  
Dallas, TX 75390-9036, USA  
P: 214-934-7974  
E: lauren.phillips@utsouthwestern.edu
<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>Institution</th>
<th>Address</th>
<th>Phone</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Paolo Pianosi</td>
<td>Member of the Executive Committee</td>
<td>King’s College Hospital NHS Foundation Trust</td>
<td>Level 3 Cheyne Wing, Denmark Hill, SE5 9RS, UK</td>
<td>P: 0-210-6152</td>
<td>E: <a href="mailto:paolo.pianosi@nhs.net">paolo.pianosi@nhs.net</a></td>
</tr>
<tr>
<td>Dr. Satish Raj</td>
<td>Member of the Executive Committee</td>
<td>Department of Cardiac Sciences University of Calgary</td>
<td>3280 Hospital Dr NW, GAC70, HRIC Building, Calgary, AB, T2N 4Z6, CANADA</td>
<td>P: 403-210-6152</td>
<td>E: <a href="mailto:satish.raj@ucalgary.ca">satish.raj@ucalgary.ca</a></td>
</tr>
<tr>
<td>Dr. Chester Ray</td>
<td>Member of the Executive Committee</td>
<td>Nutrition, Food &amp; Exercise Sciences Florida State University</td>
<td>120 Convocation Way, 436 Sandels Building, Tallahassee, FL 32306-1493, USA</td>
<td>P: 850-644-1850</td>
<td>E: <a href="mailto:caray@fsu.edu">caray@fsu.edu</a></td>
</tr>
<tr>
<td>Dr. Sankanika Roy</td>
<td>Member of the Executive Committee</td>
<td>Department of Neurology Universitätsklinikum Erlangen</td>
<td>Schwabachanlage 6, Erlangen, 91054, GERMANY</td>
<td>P: 49-9131-8536006</td>
<td>E: <a href="mailto:shanksroy2903@gmail.com">shanksroy2903@gmail.com</a></td>
</tr>
<tr>
<td>Dr. James Russell</td>
<td>Member of the Executive Committee</td>
<td>Department of Neurology University of Maryland</td>
<td>110 S Paca Street, 3rd Floor, Baltimore, MD 21201-1595, USA</td>
<td>P: 410-328-3100</td>
<td>E: <a href="mailto:jrussell@som.umaryland.edu">jrussell@som.umaryland.edu</a></td>
</tr>
<tr>
<td>Dr. Rasna Sabharwal</td>
<td>Member of the Executive Committee</td>
<td>Internal Medicine University of Iowa, 627 MRC</td>
<td>Iowa City, IA 52242, USA</td>
<td>P: 319-335-7674</td>
<td>E: <a href="mailto:rasna-sabharwal@uiowa.edu">rasna-sabharwal@uiowa.edu</a></td>
</tr>
<tr>
<td>Dr. Ryuji Sakakibara</td>
<td>Member of the Executive Committee</td>
<td>Neurology Div, Dept Internal Med, Sakura Medical Center, Toho Univ</td>
<td>564-1 Shimoshizu, Sakura, Chiba, 285-8741, JAPAN</td>
<td>P: 81-43-462-8811, Ext. 2323</td>
<td>E: <a href="mailto:sakakibara@sakura.med.toho-u.ac.jp">sakakibara@sakura.med.toho-u.ac.jp</a></td>
</tr>
<tr>
<td>Dr. Paola Sandroni</td>
<td>Member of the Executive Committee</td>
<td>Department of Neurology Mayo Clinic</td>
<td>200 First Street SW, Rochester, MN 55905, USA</td>
<td>P: 507-284-8491</td>
<td>E: <a href="mailto:psandroni@mayo.edu">psandroni@mayo.edu</a></td>
</tr>
<tr>
<td>Dr. David Saperstein</td>
<td>Member of the Executive Committee</td>
<td>Phoenix Neurological Associates</td>
<td>5090 N 40th St, Suite 250, Phoenix, AZ 85018, USA</td>
<td>P: 602-258-3354</td>
<td>E: <a href="mailto:david.saperstein@gmail.com">david.saperstein@gmail.com</a></td>
</tr>
<tr>
<td>Dr. Ronald Schondorf</td>
<td>Member of the Executive Committee</td>
<td>Department of Neurology, McGill University</td>
<td>3755 Chemin de la Cote Saint Catherine, Montreal, QC, H3T 1E2, CANADA</td>
<td>P: 514-340-8222, Ext. 2399</td>
<td>E: <a href="mailto:ronald.schondorf@mcgill.ca">ronald.schondorf@mcgill.ca</a></td>
</tr>
</tbody>
</table>

MEMBERSHIP LIST:
Dr. Cyndya Shibao  
Department of Medicine  
Vanderbilt University  
562 Preston Research Building  
Brentwood, TN 37232-6602, USA  
P: 615-936-4584  
E: cyndya.shibao@vanderbilt.edu

Mrs. Julie Shotwell  
Department of Gastroenterology  
Ann & Robert H. Lurie Children’s Hospital  
225 E Chicago Ave  
Chicago, IL 60611, USA  
P: 312-227-4200  
E: jkshotwell@gmail.com

Miss Isabel Silva  
Department of Pharmacology and Neurobiology, Instituto de Ciencias Biomedicas Abel Salazar  
Rua Jorge Viterbo Ferreira, no 228  
Porto, 4050-313, PORTUGAL  
P: 351-964-473386  
E: isabelsds@gmail.com

Dr. Cathy Sims-O’Neil  
2 Marion Ave  
Albany, NY 12203, USA  
P: 518-727-2903  
E: cathy.simsoneil@gmail.com

Dr. Wolfgang Singer  
Department of Neurology  
Mayo Clinic  
200 First Street SW  
Rochester, MN 55905, USA  
P: 507-284-2090  
E: singer.wolfgang@mayo.edu

Dr. Cornelia Skowronek  
Department of Neurology  
Charite - University Medicine Berlin  
Augustenburger Platz 1  
Berlin, 13353, GERMANY  
P: 49-30-450-660305  
E: cornelia.skowronek@charite.de

Dr. Julian Stewart  
Department of Pediatric Cardiology  
New York Medical College  
19 Bradhurst Avenue, Suite 1600  
Hawthorne, NY 10532, USA  
P: 914-593-8888  
E: julian_stewart@nymc.edu

Ms. Lauren Stiles  
Dysautonomia International  
67 Woodlawn Ave  
East Moriches, NY 11940, USA  
P: 631-871-9673  
E: lstiles@dysautonomiainternational.org

Dr. Amer Suleman  
7777 Forest Lane, Suite A236  
Dallas, TX 75230, USA  
P: 214-504-9942  
E: suleman.amer@gmail.com

Dr. Kenji Sunagawa  
Center for Disruptive Cardiovascular Medicine  
Kyushu University  
3-1-1 Maidashi, Higashiku  
Fukuoka, 812-8582, JAPAN  
P: 81-92-642-5355  
E: sunagawa@cardiol.med.kyushu-u.ac.jp
MEMBERSHIP LIST:

Ms. Dibashree Tamuli  
Department of Physiology  
All India Institute of Medical Sciences  
Room No. 2009, Academic Block  
New Delhi, 110029, INDIA  
P: 91-8800941876  
E: dibashree@gmail.com

Dr. Can Ozan Tan  
Department of Physical Medicine and Rehabilitation, Spaulding Rehabilitation Hospital Cambridge  
1575 Cambridge Street, CV Lab, SW052  
Cambridge, MA 02138, USA  
P: 617-758-5510  
E: cotan@mgh.harvard.edu

Dr. Hidetaka Tanaka  
Minamimorimachi-Fuji-Bild 1F  
Minamimorimachi, Kitaku  
Osaka 530-0054, JAPAN  
P: 81-6-6361-0700  
E: hidetaka@poh.osaka-med.ac.jp

Dr. Jens Tank  
Department of Cardiovascular Aerospace Medicine  
Institute of Aerospace Medicine  
Linder Hoehe  
Cologne, 51147, GERMANY  
P: 49-2203-6012572  
E: jens.tank@dlr.de

Dr. Sally Tarbell  
Pediatric Mental Health Institute  
University of Colorado Anschutz Medical Campus  
13123 E 16th Ave, B130  
Aurora, CO 80045, USA  
P: 720-777-6255  
E: sally.tarbell@childrenscolorado.org

Dr. Charles Thompson  
5330 N Davis Hwy  
Pensacola, FL 32503, USA  
P: 850-477-8874  
E: randygimpydoc@aol.com

Dr. J. Andrew Taylor  
SHC Cardiovascular Research Laboratory  
Harvard Medical School  
1575 Cambridge Street  
CAMBA5  
Boston, MA 02138, USA  
P: 617-758-5503  
E: jandrew_taylor@hms.harvard.edu

Dr. Alejandro Velasco  
Department of Cardiology  
University of Alabama at Birmingham  
1808 7th Avenue South  
201 Boshell Diabetes Building  
Birmingham, AL 35294, USA  
P: 205-975-1395  
E: avelasco-delacuesta@uabmc.edu
MEMBERSHIP LIST:

Dr. Amir Zia  
Zia Neurology Associates  
996 Wilkinson Trace, Suite A7  
Bowling Green, KY 42103, USA  
P: 270-393-8418  
E: mahreenzia@gmail.com

Dr. Lindsay Zilliox  
Department of Neurology  
University of Maryland  
110 S. Paca Street, 3rd Floor  
Baltimore, MD 21231, USA  
P: 410-328-3100  
E: lzilliox@som.umaryland.edu
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