



Programme

Wednesday, 10th Oct.

08:00 - 10:00	Registration
10:00 - 10:15	Opening Ceremony: M. Hilz (EFAS), I. Biaggioni (AAS), W. Grisold (OEGN), H. Lahrmann (Congress President)
Main Topic I:	Stroke and ANS Disorders - Advances in Pathophysiology of ANS Disorders
	Chairs: S Schwab (Germany) & I Biaggioni (USA)
10:15 - 10:45	Stroke and ANS disorders G Micieli Pavia, Italy
10:45 - 11:00	Molecular mechanisms of reciprocal dysautonomia V Snitsarev, Z Tan, Y Lu, R Sabharwal, MW Chappleau, FM Abboud Iowa City, IA, USA
11:00 - 11:15	Autonomic/baroreflex phenotypes in a novel mouse model of spontaneous congestive heart failure R Sabharwal, RM Weiss, HM Stauss, CD Sigmund, FM Abboud, MW Chappleau Iowa City, IA, USA
11:15 - 11:30	Pressor effect of water: role of the vanilloid receptor TRPv1 NR Keller , J McHugh, M Appalsamy, J Jordan, SR Raj, D Robertson Nashville, TN, USA
11:30 - 11:45	Sympathetic - vascular transduction in POTS I Bonyhay , J Chang, R Freeman Boston, MA, USA
11:45 - 12:00	Cerebral white matter lesions in pure autonomic failure – age related or effect of treatment? W Struhal , H Lahrmann, CJ Mathias Linz, Austria
12:00 - 13:30	Lunch and Poster Session I
13:30 - 14:00	C. Bernard Lecture: ANS in long distance endurance competitions O. Appenzeller Albuquerque, NM, USA

Main Topic II:	ANS and Exercise - Advances in Therapy
	Chairs: J Jordan (Germany) & O Appenzeller (USA)
14:00 - 14:30	New thoughts about cardiovascular regulation during exercise B Levine Dallas, TX, USA
14:30 - 14:45	Short-term exercise training normalizes vasomotor sympathetic responses to upright tilt in postural orthostatic tachycardia syndrome Q Fu , TB VanGundy, S Shibata, JL Hastings, MD Palmer, BD Levine Dallas, TX, USA

14:45 - 15:00	FMS Penaz-Wesseling Travel Fellowship Award Heart rate response to exercise in adolescents with autonomic dysfunction BEU Burkhardt , PT Pianosi, C Brands, CJ Porter, AL Weaver, PR Fischer Rochester, MN, USA
15:00 - 15:15	Interval hypoxic training improves autonomic cardiovascular and respiratory control in COPD patients T Haider , G Casucci, T Linser, M Faulhaber, H Gatterer, I Ehrenbourg, M Burtscher, L Bernardi Innsbruck, Austria
15:15 - 15:30	Autoimmune autonomic ganglionopathy: IgG effects on ganglionic synaptic transmission Z Wang, PA Low, S Vernino Dallas, TX, USA
15:30 - 15:45	Norepinephrine transporter blockade and alpha-2 antagonism have a synergistic effect on blood pressure in autonomic failure C Shibao, A Gamboa, SR Raj, LE Okamoto , BK Black, D Robertson, I Biaggioni Nashville, TN, USA
15:45 - 16:00	Combination immunomodulatory therapy for autoimmune autonomic ganglionopathy CH Gibbons , SA Vernino, R Freeman Boston, MA, USA
16:00 - 16:30	Break
16:30 - 17:00	FMS Lecture Cardiac autonomic nervous modulation and baroreflex-sensitivity during specific sleep stages after acute myocardial infarction H Bonnemeier Lübeck, Germany

Main Topic III:	Sleep & Integrated Physiology
	Chairs: R Hainsworth (UK) & F Axelrod (USA)
17:00 - 17:30	Sleep and ANS M Hilz Erlangen, Germany
17:30 - 17:45	Sleep-dependent changes in the control of heart rhythm in human subjects A Silvani , D Grimaldi, G Pierangeli, G Barletta, S Vandi, F Provini, R Vetrugno, P Montagna, G Zoccoli, P Cortelli Bologna, Italy
17:45 - 18:00	Sympathetic activation with voluntary apnea in elite divers K Heusser , G Dzamonja, J Tank, I Palada, Z Valic, D Bakovic, A Obad, V Ivancev, A Diedrich, MJ Joyner, J Jordan, Z. Dujic Berlin, Germany
18:00 - 18:15	Disturbed sleep and quality of life in patients with postural tachycardia syndrome SR Raj , I Biaggioni, BA Malow, BK Black, JF Ling III, SY Paranjape, MG Farley, D Robertson Nashville, TN, USA
18:15 - 18:30	Relationship of sympathetic nerve activity and cardiac output in older humans N Charkoudian , LA Sokolnicki, CP Johnson, JH Eisenach, TB Curry, MJ Joyner, BG Wallin Rochester, MN, USA

19:00	Welcome reception and Concert at Palais Ferstel
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Thursday, 11th Oct.

Main Topic IV:	Syncope and Drug-Induced OH
	Chairs: S Raj (USA) & J-M Senard (France)
09:00 - 09:30	<i>Dopaminergic Therapy and Dysautonomia in Parkinson's Disease</i> J-M Sénard Toulouse, France
09:30 - 09:45	<i>Levodopa ingestion and metabolism in patients with idiopathic Parkinson's disease</i> F Adams, M Boschmann, E Lobsien, A Lipp, G Franke, MC Leisse, S Gottschalk, J Spranger, A Kupsch, J Jordan Berlin, Germany
09:45 - 10:00	<i>Susceptibility to vasoactive drugs in syndromes with pre- and postganglionic sympathetic denervation</i> A Lipp , P Sandroni, J Gehrking, PA Low Berlin, Germany
10:00 - 10:15	AAS Travel Fellowship Award <i>Eyewitness account of transient loss of consciousness: clue or pitfall?</i> RD Thijs , WA Wagenaar, W Wieling, JG van Dijk Leiden, The Netherlands
10:15 - 10:30	<i>Decrease in splanchnic resistance contributes to the mechanism of simple faint</i> I Taneja , JL Glover, MS Medow, JM Stewart Valhalla, NY, USA
10:30 - 10:45	<i>Supine splanchnic compression enhances cardiovascular recovery from orthostatic hypotension in familial dysautonomia patients</i> MJ Hilz , EC Ehmman, H Marthol, R Baltasdzhieva, S Moeller, FB Axelrod, D Berlin, T Haendl New York, NY, USA & Erlangen, Germany
10:45 - 11:00	<i>Orthostatic stress activates coagulation: a novel physiologic mechanism for hypercoagulation</i> M Masoud , G Sarig, B Brenner, G Jacob Haifa, Israel
11:00 - 11:30	Novartis Lecture - Chair: F Skrabal (Austria) <i>Modern antihypertensive drugs - better control of arrhythmia?</i> A Podczeck-Schweighofer Vienna, Austria
DAVID H. P. STREETEN SESSION	
11:30 - 12:15	Streeten Lecture <i>POTS: Deconditioning, pseudodeconditioning, both or neither</i> M Joyner Rochester, MN, USA
12:15 - 12:30	Streeten Travel Fellowship Award <i>Impact of spinal cord injury on emotion and autonomic function: an exploratory brain functional magnetic resonance imaging study</i> A Nicotra , HD Critchley, RJ Dolan, CJ Mathias London, UK
12:30 - 14:00	Lunch and Poster Session II EFAS Board Meeting (at Style Hotel)
Main Topic V:	Autonomic Failure In Parkinsonism
	Chairs: C Mathias (UK) & P Low (USA)
14:00 - 14:30	<i>Neuropathologic basis of autonomic manifestations of multiple system atrophy and Lewy body disorders</i> E Benarroch Rochester, MN, USA
14:30 - 14:45	<i>Autonomic indices as predictors of worse outcome in multiple system atrophy and Parkinson's disease: a preliminary report</i> A Lipp , P Sandroni, JE Ahlskog, TL Gehrking, RD Fealey, J Gehrking, KK Nickander,

	D Sletten, W Singer, DM Maraganore, CM Shults, PA Low Berlin, Germany
14:45 - 15:00	<i>Is Parkinson disease with neurocirculatory failure associated with generalized dysautonomia? Results of neurochemical and neuropharmacologic testing</i> Y Sharabi , R Imrich, BA Eldadah, C Holmes, S Pechnik, DS Goldstein Bethesda, MD, USA
15:00 - 15:30	Chelsea Lecture <i>A double-blind, randomized, placebo-controlled study to determine the efficacy and safety of droxidopa in the treatment of orthostatic hypotension associated with multiple system atrophy or Parkinson's disease</i> CJ Mathias , JM Senard, P Cortelli London, UK
15:30 - 16:00	Novartis Lecture - Chair: W Grisold (Austria) <i>Nonmotor symptoms in Parkinson's disease</i> W Gerschlager Vienna, Austria
16:00 - 16:30	Break

Main Topic VI:	ANS and the Perception of Music
	Chairs: E Altenmüller (Germany) & T Chelimsky (USA)
16:30 - 16:55	<i>Music or noise: different effects on the ANS</i> J-L Elghozi Paris, France
16:55 - 17:15	<i>The importance of silence in music: effects on the ANS</i> L Bernardi , C Porta, P Sleight Pavia, Italy
17:15 - 17:30	<i>Classical music inducing negative emotions decreases cardiovagal modulation in young healthy persons</i> MJ Hilz , S Wong, S Buechner, B Stemper, MHM Lee, T Gryc, J Nath, L Habib-Romstöck, P Stadler Erlangen, Germany
17:30 - 19:00	AAS Board Meeting (at Style Hotel)

20:00	Gala Dinner at the City Hall of Vienna
	Allergan Lecture with Music Performance <i>Emotional effects of music and its impact on the autonomic nervous system: the "chill effect"!</i> E Altenmüller Hannover, Germany

Friday, 12th Oct.	
07:30 - 08:30	CAR Editorial Board Meeting
Main Topic VII:	ANS and Cardio-Respiratory Control
	Chairs: E Benarroch (USA) & H Lahrmann (Austria)
09:00 - 09:30	<i>Respiratory autonomic regulation</i> J Paton London, UK
09:30 - 09:45	<i>Ventilatory drive in patients with multiple system atrophy</i> A Lipp , P Sandroni, B Johnson, PA Low, E Benarroch Berlin, Germany

09:45 - 10:00	<i>Altered control of cerebral circulation in patients with chronic obstructive pulmonary disease: an early sign of functional cardiovascular autonomic dysfunction</i> L Bernardi , G Casucci, T. Haider, E Brandstätter, E Pocceco, I Ehrenbourg, M Burtscher Pavia, Italy
10:00 - 10:15	<i>Role of substance P in the sympathetic activation in postural tachycardia syndrome</i> SR Raj , MV Dzurik, I Biaggioni, BK Black, PA Harris, D Robertson Nashville, TN, USA
10:15 - 10:30	<i>Pharmacological actions of arginine are not consistent with synthesis of nitric oxide</i> WT Talman , JE Langasek Iowa City, IA, USA
10:30 - 11:00	Break AAS General Assembly

Main Topic VIII:	New Developments in Autonomic Testing - From FFT to Wavelet and Beyond
	Chairs: L Bernardi (Italy) & S Carvalho (Portugal)
11:00 - 11:20	<i>HRV analysis and Fourier transform</i> A Diedrich Nashville, TN, USA
11:20 - 11:40	<i>Application of wavelet analysis to HRV data</i> I Rocha Lisbon, Portugal
11:45 - 12:00	<i>Evaluation of a novel non model driven assessment of cardiac autonomic activity: reinnervation after human heart transplantation</i> R Schondorf , J Benoit, M Genoulaz, MJ Lafitte, L Bernardi Monteal, Quebec, Canada
12:00 - 12:15	<i>QDIRT: quantitative direct and indirect testing of sudomotor function</i> CH Gibbons , J Centi, B Illigens, R Freeman Boston, MA, USA
12:15 - 12:30	<i>Recovery by microdialysis of norepinephrine from interstitial fluids and retrorecovery of salicylate is not primarily determined by membrane permeability</i> PJ van Gurp , HA Ross, JWM Lenders, JJ Willemsen, CJ Tack, FCGJ Sweep Nijmegen, The Netherlands
12:30 - 14:00	Lunch and Poster Session III
13:00 - 14:00	BMEYE Satellite Symposium Integrative Physiology in Cardiovascular Medicine: Back to Basics and Beyond <i>The differential effects of hyperventilation on blood pressure regulation in the normal and the failing circulation</i> RD Thijs Lieden, The Netherlands <i>Bedside medicine: symptoms and signs of syncope</i> W Wieling Amsterdam, The Netherlands

Main Topic IX:	Microgravity & POTS
	Chairs: D Robertson (USA) & W Talman (USA)

14:00 - 14:25	Cardiovascular and fluid volume control in microgravity P Norsk Copenhagen, Denmark
14:25 - 14:45	Sympathetic neural control of blood pressure in microgravity T Mano Gifu, Japan
14:45 - 15:00	Effect of vestibular impairment on cerebral blood flow response to dynamic roll tilt JM Serrador , GS Gopalakrishnan, FO Black, LA Lipsitz, SJ Wood Boston, MA, USA
15:00 - 15:15	Does respiratory entrainment prevent motion sickness? A Voustianiouk , L Norcliffe-Kaufmann, M Dai, B Cohen, H Kaufmann New York, NY, USA
15:15 - 15:30	G-Protein coupled receptor antibodies in postural orthostatic tachycardia patients J Tank , K Heusser, A Diedrich, FC Luft, G Wallukat, J Jordan Berlin, Germany
15:30 - 15:45	Melatonin attenuates tachycardia in postural tachycardia syndrome (POTS) SR Raj , I Biaggioni, BK Black, PA Harris, D Robertson Nashville, TN, USA
15:45 - 16:00	'Early' vs 'late' postural tachycardia syndrome: is there a hemodynamic significance? KA Mayuga , K Butters, F Fouad-Tarazi Cleveland, OH, USA
16:00 - 16:30	Break EFAS General Assembly

Main Topic X:	Pain & Peripheral Neuropathies
	Chairs: R Freeman (USA) & P Cortelli (Italy)
16:30 - 17:00	The autonomic face of migraine P Cortelli Bologna, Italy
17:00 - 17:15	Modeling the role of peripheral neuropathy on wound healing CH Gibbons , B Illigens, J Centi, N Wang, R Freeman Boston, MA, USA
17:15 - 17:30	Autonomic dysreflexia, more than just the sympathetic nervous system? JT Groothuis , GA Rongen, J Deinum, ACH Geurts, P Smits, MTE Hopman Nijmegen, The Netherlands
17:30 - 17:45	The immediate effects of IV beta-blockade on cardiac sympathetic nerve activity in the conscious sheep model DL Jardine , CJ Charles Christchurch, New Zealand
17:45 - 18:00	How do QSART and skin biopsy correlate in small fiber neuropathy? KR Chemali , K Anis, N Chemali, L Zhou Cleveland, OH, USA

18:00	Concluding Remarks & Farewell
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Saturday, 13th Oct.

Postcongress teaching course:
Venue: Kaiser Franz Josef Hospital, Vienna

M. Hiltz (Germany), H. Lahrmann (Austria), W. Struhal (Austria)

09:00 - 13:00

The autonomic laboratory: Indications, standard tests, interpretation of results and common pitfalls.

www.EFASweb.com/2007

updated: 2007-10-01

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