REPORT TO THE INTERNATIONAL SOCIETY FOR NEUROCHEMISTRY

"THE TRANSPORTER TRANSITION"

General conference details

The 11th annual SFB35 Symposium entitled "The Transporter Transition" organized by Harald H. Sitte (Medical University of Vienna) and Lynette Daws (University of Texas Health Science Center at San Antonio) was held September 18 – 21, 2018 at the University Clinic of Dentistry Vienna, Sensengasse 2a, 1090 Vienna, Austria.

Steering Committee:

- Harald H. Sitte, Medical University of Vienna, Vienna, Austria
- Lynette C. Daws, University of Texas Health Science Center at San Antonio, San Antonio, USA
- Academy of Sciences, Budapest, Hungary
- * Habibeh Khoshbouei, University of Florida, Gainesville, USA
- ❖ Haley Melikian, Brudnick Neuropsychiatric Research Institute, University of Massachusetts Medical School, Worcester, USA

Registration and registration fees

The registration fee for the conference was 200,00 Euro, members of the ITTS could claim a reduced registration fee (EUR 100,00).

The registration fee for speakers and chairs with an ongoing ITTS membership was waived.

Speakers

Jenny Aguilar, US Rita Fagan, US Anne Nies, DE Ivet Bahar, US Louise Fets, UK Bala Krishna Prabhala, DK Selva Baltan, US Ulrik Gether, DK Manuele Rebsamen, AT Andre Bazzone. DE Freja Herborg, DK Nicolas Reves. FR Shreyas Bhat, AT Scott Jackson, CH Claudio Rivera, FI Laura Bianchi, US Baruch Kanner, IL Paul Rosenberg, US Elizabeth Bilsland, BR Douglas Kell, UK Renae Ryan, AU Irina Borodina, DK Habibeh Khoshbouei, US Lei Shi, US Olga Boudker, US David Krantz, US Claire Steppan, US Roch-Philippe Charles, CH Daniel Lackner, AT Sonja Sucic, AT Roberta de Ceglia, CH Kenneth Lindegaard Madsen, DK Giulio Superti-Furga, AT Eric Delpire, US Claus Loland, DK Dániel Szöllősi, AT Mauricio Di Fulvio, US Cristina Manatschal, CH Mladen Tzvetkov, DE David Dickens, UK Felix Mayer, US Suzanne Underhill, US Daniela Digles, AT Laura F. McNair, DK Don van Meyel, CA Ahmad Reza Mehdipour, DE Katharina Duerr, UK Alyssa West, US Tanja Dujic, BA Haley Melikian, US Yun Zhou, NO Lena Eliasson, SE Caroline Neumann, DK

Plenary Speakers

Susan G. Amara, National Institute of Mental Health, National Institutes of Health, USA Thomas Jentsch, Leibniz-Institut fuer Molekulare Pharmakologie, Berlin, Germany Satoshi Murakami, Tokyo Institute of Technology, Japan Christine Ziegler, University Regensburg, Germany

Scientific program

Tuesday, September 18th			
09:00 - 11:00	Registration		
11:00 - 11:15	Opening Harald H. Sitte		
11:15 - 12:15	Keynote lecture 1		
	Chair: Lynette Daws (University of Texas Health Science Center at San Antonio, USA)		
11:15 - 11:20	Introduction		
11:20 - 12:05	Susan G. Amara (National Institute of Mental Health, National Institutes of Health, USA)		
	Regulation of neurotransmitter transporters by G-protein signaling in dopamine neurons: new insights into psychostimulant action		
12:05 - 12:15	Discussion		
12:15 - 13:00	Lunch break, mounting of posters		
13:00 - 14:50	Session 1: The importance of organic cation transporters (OCTs, MATEs) in drug therapy		
	Chair: Anne Nies (Dr. Margarete Fischer-Bosch Institute of Clinical Pharmacology, Stuttgart, Germany)		
13:00 - 13:10	Introduction		
13:10 - 13:30	Anne Nies (Dr. Margarete Fischer-Bosch Institute of Clinical Pharmacology, Stuttgart, Germany)		
	The role of OCTs and alternative transporters in transport of and response to protein kinase inhibitors		
13:30 - 13:35	Discussion		
13:35 - 13:55	Tanja Dujic (University of Sarajevo, Sarajevo, Bosnia and Herzegovina and University of Dundee, Dundee, Scotland, UK)		
	Association of OCT1 with intolerance to metformin in Type 2 diabetes		
13:55 - 14:00	Discussion		
14:00 - 14:20	Mladen Tzvetkov (Center of Drug Absorption and Transport (C_DAT), University Medicine, Greifswald, Germany)		
	OCT1 pharmacogenetics in pain management: is clinical application within reach?		
14:20 - 14:25	Discussion		
14:25 - 14:45	Felix P. Mayer (Brain Institute, Florida Atlantic University, USA)		
	The combination of alcohol and cocaine affects monoamine transporters of the SLC-6 family and organic cation transporter 3		
14:45 - 14:50	Discussion		
14:50 - 15:20	Coffee/Tea break, refreshments		
15:20 - 17:30	Session 2		
	Young Scientists Session - Young ISN Neurochemistry Awardees selected from abstract		
	Chair: Peter Chiba (Medical University Vienna, Austria)		
15:20 - 15:30	Introduction		
15:30 - 15:42	Freja Herborg (University of Copenhagen, Denmark)		
	Loss of function variants in monoamine transportes as a risk factor for neuropsychiatric disease? – Insights from a population based case-cohort sample		
15:42 - 15:45	Discussion		
15:45 - 15:57	Jenny I. Aguilar (Vanderbilt University, USA)		
	Phosphatidylinositol (4, 5)-bisphosphate coordinates functional interactions in the dopamine transporter to promote amphetamine preference		
15:57 - 16:00	Discussion		

16:00 - 16:12	Louise Fets (Cancer Metabolism Laboratory, The Francis Crick Institute, UK)
	MCT2-mediated MOG transport dictates intracellular target engagement to drive toxicity in cancer cells
16:12 - 16:15	Discussion
16:15 - 16:27	Rita R. Fagan (University of Massachusetts Medical School, USA)
	PKC-stimulated dopamine transporter internalization: Interdependent roles of Rin, Ack1 and transporter amino- and carboxy termini
16:27 - 16:30	Discussion
16:30 - 16:42	Manuele Rebsamen (CeMM, Austria)
	Identification of solute carriers involved in responses to amino acid starvation by gain-of-function genetic screens
16:42 - 16:45	Discussion
16:45 - 16:57	Bala Krishna Prabhala (University of Copenhagen, Denmark)
	Chloramphenicol is a substrate of prototypical proton coupled oligopeptide transporter from E. coli
16:57 - 17:00	Discussion
17:00 - 17:12	Alyssa West (University of South Carolina, USA)
	Serotonin in the Medial Prefrontal Cortex: How Transport is Altered in Autism Spectrum Disorder Models
17:12 - 17:15	Discussion
17:15 - 17:27	Shreyas Bhat (Medical University of Vienna, Austria)
	Correction of folding deficits exhibited by monoamine transporter mutants using a non-classical pharmacological approach
17:27 - 17:30	Discussion
18:30 - 21:30	Welcome Dinner, Van Swieten Hall, MedUni Vienna

Wednesday, September 19th

08:00 - 08:45	Registration
08:45 - 10:35	Session 3: Regulation of Dopamine Transporters: From Molecules to Behavior and Beyond
	Chair: Haley Melikian (University of Massachusetts Medical School, USA) Co-Chair: Habibeh Khoshbouei (University of Florida, USA)
08:45 - 08:55	Introduction
08:55 - 09:15	Habibeh Khoshbouei (University of Florida, USA)
	Immune regulation of dopamine transporter activity
09:15 - 09:20	Discussion
09:20 - 09:40	Suzanne Underhill (National Institute on Mental Health, USA)
	Mechanisms of amphetamine-mediated DAT trafficking
09:40 - 09:45	Discussion
09:45 - 10:05	Ulrik Gether (University of Copenhagen, Denmark)
	Nanoscale architecture of presynaptic dopamine terminals: regulation of the dopamine transporter at the single molecule level
10:05 - 10:10	Discussion
10:10 - 10:30	Haley Melikian (University of Massachusetts Medical School, USA)
	Dopamine transporter trafficking and regulation: Native mechanisms and behavioral consequences
10:30 - 10:35	Discussion
10:35 - 11:00	Coffee/Tea break, refreshments

11:10 - 12:10	Keynote lecture 2
	Chair: Balazs Sarkadi (Research Centre for Natural Sciences, Hungarian Academy of Sciences, Budapest, Hungary)
11:10 - 11:15	Introduction
11:15 - 12:00	Satoshi Murakami (Tokyo Institute of Technology, Japan)
	Structure and function of tripartite drug efflux transporters in Gram- negative bacteria
12:00 - 12:10	Discussion
12:10 - 13:00	Lunch break
12:10 - 14:15	Postersession
14:15 - 16:05	Session 4: NCCR TransCure: interdisciplinary membrane transport research
	Chair: Bruno Stieger (University of Zürich, Switzerland) Co-Chair: Cristina Manatschal (University of Zürich, Switzerland)
14:15 - 14:25	Introduction
14:25 - 14:45	Roch-Philippe Charles (University of Bern, Switzerland)
	The LAT1 inhibitor JPH203 reduces growth of thyroid carcinoma in a fully immunocompetent mouse model
14:45 - 14:50	Discussion
14:50 - 15:10	Cristina Manatschal (Department of Biochemistry, University of Zürich, Switzerland)
	Structural and mechanistic basis of proton-coupled metal ion transport in the SLC11/NRAMP family
15:10 - 15:15	Discussion
15:15 - 15:35	Scott Jackson (Institute of Molecular Biology and Biophysics, ETH Zurich, Switzerland)
	Structural basis of small-molecule inhibition of human multidrug transporter ABCG2
15:35 - 15:40	Discussion
15:40 - 16:00	Roberta de Ceglia (Department of Fundamental Neurosciences, University of Lausanne, Switzerland)
	Exploring astrocyte-specific VGLUTs activity: a new role in controlling glutamatergic circuits relevant in Parkinson's disease and epilepsy
16:00 - 16:05	Discussion
16:05 - 16:40	Coffee/Tea break, refreshments
16:40 - 18:30	Session 5: Innovative approaches to structural/computational/biophysical analyses of the glutamate and biogenic amine transporter families
	Chair: Susan G. Amara (National Institute of Mental Health, National Institutes of Health, USA) Co-Chair: Ivet Bahar (School of Medicine, University of Pittsburgh, USA)
16:40 - 16:50	Introduction
16:50 - 17:10	Olga Boudker (Weill Cornell Medical College, USA)
	Hills and valleys in the functional cycle of the thermophilic transporter GltPh
17:10 - 17:15	Discussion
17:15 - 17:35	Claus Juul Løland (Department of Neuroscience, University of Copenhagen, Copenhagen, Denmark)
	Substrate-induced conformational dynamics of the dopamine transporter
17:35 - 17:40	Discussion
17:40 - 18:00	Ivet Bahar (School of Medicine, University of Pittsburgh, USA)
	Signature dynamics of LeuT family of transporters: conserved vs. specific mechanisms of motions and their functional impact
18:00 - 18:05	Discussion
18:05 - 18:25	Lei Shi (National Institute on Drug Abuse - Intramural Research Program, USA)

18:25 - 18:30 Discussion

20:30 - 22:30 Free evening / Jazz concert: **Benny Sharoni & Oliver Kent Trio** @ Porgy & Bess

Thursday, September 20th

hippocampus

08:00 - 08:45	Registration			
08:45 - 10:35	Session 6: Structure, Function and Regulation of Excitatory Amino Acid Transporters			
	Chair: Claus Juul Løland (Department of Neuroscience, University of Copenhagen, Denmark)			
08:45 - 08:55	Introduction			
08:55 - 09:15	Nicolas Reyes (Molecular Mechanisms of Membrane Transport Laboratory, Institut Pasteur, Paris, France)			
	Ion Coupling in Human Excitatory Amino Acid Transporters			
09:15 - 09:20	Discussion			
09:20 - 09:40	Renae Ryan (Transporter Biology Group, Sydney Medical School, University of Sydney, Australia)			
	The Split Personality of Glutamate Transporters: A Chloride Channel and a Transporter			
09:40 - 09:45	Discussion			
09:45 - 10:05	Baruch Kanner (School of Medicine-IMRIC-Biochemistry and Molecular Biology, The Hebrew University of Jerusalem, Israel)			
	Both reentrant loops of the sodium-coupled glutamate transporters contain molecular determinants of cation selectivity			
10:05 - 10:10	Discussion			
10:10 - 10:30	Kenneth Madsen (Department of Neuroscience, University of Copenhagen, Denmark)			
	Functional regulation of GLT1b by the scaffold protein PICK1			
10:30 - 10:35	Discussion			
10:35 - 11:10	Coffee/Tea break, refreshments			
11:10 - 12:10	Keynote lecture 3			
	Chair: Michael Freissmuth (Medical University Vienna, Austria)			
11:10 - 11:15	Introduction			
11:15 - 12:00	Christine Ziegler (University Regensburg, Germany)			
	Impact of specific lipid-protein interactions on membrane transport			
12:00 - 12:10	Discussion			
12:10 - 14:15	Postersession			
14:15 - 14:45	Business Meeting			
14:45 - 16:35	Session 7: Discovery of novel cell-type specific functions of the glutamate transporter GLT-1 using a conditional knockout approach			
	Chair: Paul A. Rosenberg (Boston Children's Hospital and Harvard Medical School, USA)			
14:45 - 14:55	Introduction			
14:55 - 15:15	Paul A. Rosenberg (Boston Children's Hospital and Harvard Medical School, USA)			
	Multiple lines of evidence suggest neuronal GLT-1 KO mice have a synaptopathy			
15:15 - 15:20	Discussion			
15:20 - 15:40	Zhou Yun (University of Oslo, Norway)			
	Axon-terminals expressing EAAT2 (GLT-1; slc1a2) are common in the forebrain and not limited to the			

15:40 - 15:45	Discussion
15:45 - 16:05	Laura F. McNair (University of Copenhagen, Denmark)
	The glutamate transporter GLT-1 expressed in neurons is important for glutamate homeostasis and synaptic energy metabolism
16:05 - 16:10	Discussion
16:10 - 16:30	Selva Baltan (Cleveland Clinik, Lerner Research Institute, Cleveland, USA)
	Oligodendrocytes Support Axon Function via Glutamate Signaling through Glutamate Transporters (GLT-1) in a Gender and Age-specific Manner
16:30 - 16:35	Discussion
16:35 - 17:10	Coffee/Tea break, refreshments
17:10 - 19:25	Session 8: ReSOLUTE: an academic-industry IMI partnership to tackle SLCs
	Chair: Giulio Superti-Furga (Research Center for Molecular Medicine of the Austrian Academy of Sciences – CeMM, Austria)
17:10 - 17:20	Introduction
17:20 - 17:40	Giulio Superti-Furga (CeMM, Austria)
	ReSOLUTE: an academic-industry IMI partnership to tackle SLCs
17:40 - 17:45	Discussion
17:45 - 18:05	Claire Steppan (Pfizer, USA)
	SLCs and drug discovery - a pharma perspective
18:05 - 18:10	Discussion
18:10 - 18:30	Daniel Lackner (CeMM, Austria)
	A deorphanization pipeline for SLCs
18:35 - 18:55	Daniela Digles (University of Vienna, Austria)
	ReSOLUTE databases and tools for the scientific community
18:55 - 19:00	Discussion
19:00 - 19:20	Katharina L. Duerr (University of Oxford, UK)
	Harnessing the SGC integral membrane pipeline for solute carrier protein production
19:20 - 19:25	Discussion
19:30 - 22:00	Wine and Cheese / Postersession
	And: Josephinum - Collection Of The Medical University Of Vienna

Friday, September 21st

08:00 - 08:45	Registration
08:45 - 10:35	Session 9: Transmembrane transport of drugs and xenobiotics
	Chair: Douglas B. Kell (The University of Manchester, UK)
08:45 - 08:55	Introduction
08:55 - 09:15	Douglas B. Kell (The University of Manchester, UK)
	The 'real' (natural) substrates of pharmaceutical drug transporters
09:15 - 09:20	Discussion
09:20 - 09:40	Elizabeth Bilsland (Unicamp, São Paulo, Brazil)
	The transporter-mediated uptake and efflux of drugs across the blood-brain barrier
09:40 - 09:45	Discussion

09:45 - 10:05	Irina Borodina (The Novo Nordisk Foundation Centre for Biosustainability, Danish Technical University, Denmark)
	Deciphering the transport mechanisms of small molecules for improved cell factories
10:05 - 10:10	Discussion
10:10 - 10:30	David Dickens (University of Liverpool, UK)
	Cellular uptake of the atypical antipsychotic clozapine is a carrier-mediated process
10:30 - 10:35	Discussion
10:35 - 11:10	Coffee/Tea break, refreshments
11:10 - 12:10	Keynote lecture 4
	Chair: Harald Sitte (Medical University Vienna, Austria)
11:10 - 11:15	Introduction
11:15 - 12:00	Thomas Jentsch (Leibniz-Institut fuer Molekulare Pharmakologie, Berlin, Germany)
	Properties and physiological roles of VRAC/LRRC8 volume-regulated anion channels
12:00 - 12:10	Discussion
12:10 - 13:10	Lunch break
13:10 - 15:00	Session 10: Chloride Physiology/Homeostasis: Channels and co-transporters in Neuronal and Pancreatic B cell physiology and disease
	Chair: Lydia Aguilar-Bryan (Pacific Northwest Diabetes Research Institute, USA)
13:10 - 13:20	Introduction
13:20 - 13:40	Claudio Rivera (University of Helsinki, Neuroscience Center, Finnland)
	Depolarizing GABA triggers Glutamatergic sprouting in epilepsy
13:40 - 13:45	Discussion
13:45 - 14:05	Eric Delpire (Vanderbilt University Medical Center, Anesthesiology, Molecular Physiology and Biophysics, USA)
	GABA, K-Cl and Na-K-2Cl cotransporters in epilepsy and pain
14:05 - 14:10	Discussion
14:10 - 14:30	Mauricio Di Fulvio (Wright State University, School of Medicine, USA)
	Chloride transporters and channels in β -cell physiology and insulin secretion
14:30 - 14:35	Discussion
14:35 - 14:55	Lena Eliasson (Lund University Diabetes Centre, Sweden)
	Chloride transporters and channels in alpha-cell physiology and glucagon secretion
14:55 - 15:00	Discussion
15:00 - 15:30	Coffee/Tea break, refreshments
15:30 - 16:40	Session 11
	Young Scientists Session - Young ISN Neurochemistry Awardees selected from abstract
	Chair: Thomas Stockner (Medical University Vienna, Austria)
15:30 - 15:40	Introduction
15:40 - 15:52	Andre Bazzone (Nanion Technologies GmbH, Germany)
	H+ coupling and pH regulation in MFS sugar transporters: An application of SSM-based electrophysiology
15:52 - 15:55	Discussion
15:55 - 16:07	Caroline Neumann (Aarhus University, Denmark)
	Investigations into the binding site promiscuity of MhsT

16:07 - 16:10	Discussion
16:10 - 16:22	Ahmad Reza Mehdipour (Max Planck Institute of Biophysics, Germany)
	Mechanism of recognition of lipid substrates by ABC transporters
16:22 - 16:25	Discussion
16:25 - 16:37	Dániel Szöllősi (Medical University of Vienna, Austria)
	ABCB1 nucleotide binding domain dimerization cycle
16:37 - 16:40	Discussion
16.40 - 16:45	Refreshments
16:45 - 18:35	Session 12: Invertebrates as a model organism to study transporter function and dysfunction
	Chair: Renae Ryan (University of Sydney, Australia) Co-Chair: Aurelio Galli (University of Alabama Birmingham, USA)
16:45 - 16:55	Introduction
16:55 - 17:15	Sonja Sucic (Medical University of Vienna, Austria)
	Functional rescue of misfolded dopamine transporter variants by pharmacochaperoning
17:15 - 17:20	Discussion
17:20 - 17:40	Don van Meyel (McGill Centre for Research in Neuroscience, Canada)
	Using Drosophila to understand the function (and dysfunction) of Excitatory Amino Acid Transporters
17:40 - 17:45	Discussion
17:45 - 18:05	Laura Bianchi (Miller School of Medicine, University of Miami, USA)
	Glial channels and transporters that mediate excretion of ions in the microenvironment between glia and neurons shape neuronal output in C. elegans
18:05 - 18:10	Discussion
18:10 - 18:30	David Krantz (David Geffen School of Medicine at UCLA, USA)
	Transporter trafficking mutations and their effects on circuit function
16:30 - 18:35	Discussion
18:35 - 18:45	Closing words/poster awards
	Harald H. Sitte
20:00 - 23:00	Farewell Dinner: Heuriger Ing. Werner Welser

Highlights of the meeting

Meeting highlights were plentiful. They begin with the pre-meeting process, including the call for session proposals, and abstracts. The warm and inspiring atmosphere and the positive enthusiasm that was conveyed by the participants, especially the young investigators, was gratifying.

An important part of the pre-meeting process was selection of symposia. The steering committee and members of SFB35 evaluated the 17 proposals received, and selected 10 to participate in the conference. Similarly, we invited young investigators to submit abstracts for poster presentations. From these submissions the same evaluation team selected individuals to give a short talk in the young investigators' sessions. A real highlight for us was the number of participants at the meeting...178! We were overwhelmed with the support and enthusiasm that marked this inaugural meeting of the ITTS. Our success was only further exemplified by the near perfect gender-balance, as well as the geographical diversity. We are delighted that so many researchers in the field of transporters followed our call to Vienna.

Every plenary lecture was a highlight of its own – and so were the individual symposia. Importantly, the poster sessions were very well attended, including the evening poster session.

The scientific transporter community showed its strong commitment to the field by gathering in Vienna, and by showing the finest pieces of their most recent work, including unpublished material. During the discussions, there was lively interaction between researchers in the plenum and the lecturers, and in many instances, young investigators also posed the questions. A special highlight was the young investigator's sessions, which, like all sessions were exceptionally well attended, with lively discussions.

In addition to the abundant academic highlights, were the evening social events (see below). Attendance and participation at all events was outstanding. The dinners and evening poster session in particular, provided wonderful networking platforms. Overall, the entire meeting was a highlight in itself.

Participants

A total of 178 participants from 24 nations (Australia, Austria, Bosnia and Herzegovina, Brazil, Canada, Croatia, Czech Republic, Denmark, Finland, France, Germany, Hungary, Israel, Italy, Japan, The Netherlands, Norway, Poland, Russia, Spain, Sweden, Switzerland, United Kingdom, United States of America) attended the 11th SFB35 Symposium.

We would like to emphasize that our goal was to achieve an equal gender balance, which we achieved across the board.

	Male	female	total
Number of participants	91	87	178
Plenary speakers	2	2	4
Chairs	10	6	16
Co-chairs	1	3	4
Invited speakers	20	21	41
Young Scientists speakers selected from abstracts	6	6	12
Poster presenters	32	36	68

Social events

Each conference day ended with a social event, where we offered a varied program.

On the first evening, our welcome dinner took place in the Van Swieten hall of the Medical University of Vienna. On the second evening, our participants had the opportunity to end the day with a jazz concert by Benny Sharoni & Oliver Kent Trio at the renowned Viennese Jazz Club Porgy & Bess.

On the third evening, our poster presenters had the opportunity to present their work to interested participants (and the poster award jury) in a relaxed atmosphere with cheese and wine. Parallel to this scientific event, we offered guided tours through the exhibitions of the Josephinum (Medical-historical collection of the Medical University of Vienna):

- The 18th century anatomical wax models for the training of surgeons / Chiasmata 17-18 Anna Artaker/Tatiana Lecomte (arts exhibition)
- The Medical Faculty of Vienna 1938 to 1945
- The Josephina Library (superb books on medicine and botany/pharmacy)

Our farewell dinner on the last evening was held at the Heurigen-Restaurant "Werner Welser" in Nussdorf, Vienna, the traditional venue for farewells dinners of the 10 year spanning SFB35 transporter conferences.

All social events were very well attended.

Travel awards

ISN - Travel awardees:

Jenny Aguilar (USA)	\$ 1.000,00
Rita Fagan (USA)	\$ 1.000,00
Louise Fets (UK)	\$ 350,00
Freja Hansen (DK)	\$ 350,00
Felix Mayer (USA)	\$ 1.000,00
Ahmad Reza Mehdipour (DE)	\$ 350,00
Caroline Neumann (DK)	\$ 350,00
Bala Krishna Prabhala (DK)	\$ 350,00
Alyssa West (USA)	\$ 1.000,00

ISN - Poster awardees:

Alyssa West (USA)	\$ 350,00
Rita Fagan (USA)	\$ 235,00
Adithya Gopinath (USA)	\$ 118,00
Manuele Rebsamen (AUT)	\$ 59,00

Travel subsidies for Plenary Speakers

Travel for three plenary speakers (Thomas Jentsch, Germany; Satoshi Murakami, Japan; Christine Ziegler, Germany): \$1.805,00

As an employee of the National Institutes of Health, Dr. Amara is not allowed to receive honoraria or travel funds.

Sponsorship

We gratefully acknowledge the support of the following sponsors:

AstraZeneca Österreich GmbH FWF Der Wissenschaftsfonds Glock Health Glock Science International Society for Neurochemistry Nanion Technologies GmbH

General budget; detailed ISN budget, how the ISN funds were utilized

Travel awards for young investigators (for 9 persons):	\$ 5.750,00
Poster awards for young investigators (for 4 persons):	\$ 762,00
Hotel for young investigators (for 1 person):	\$ 398,00
Registration fee for young investigators (for 1 person):	\$ 118,00
Transportation (Taxi) for young investigators:	\$ 184,00
Travel for plenary speakers (3 persons):	\$ 1.805,00
Registration fee for plenary speakers (3 persons):	\$ 704,00
Hotel for plenary speakers (3 persons):	\$ 912,00
Transportation (Taxi) for plenary speakers:	\$ 254,00
Poster displays	\$ 1.113,00

List of participants

1	Abas Melinda F., Austria	59	Girardi Enrico, Austria
2	Aguilar Jenny, USA	60	Goldmann Ulrich, Austria
3	Aguilar-Bryan Lydia, USA	61	Gopinath Adithya
4	Amara Susan G., USA	62	Grube Markus. Germany
5	Andersen Jens, Denmark	63	Gyimesi Gergely, Switzerland
6	Bahar Ivet, USA	64	Hashemi Parastoo, USA
7	Baltan Selva, US, USAA	65	Héja László, Hungary
8	Baronina Agnese; United Kingdom	66	Hellsberg Eva, Austria
9	Bazzone Andre, Germany	67	Henry Loren, USA
10	Becker Andreas, Germany	68	Herborg Freja, Denmark
11	Bhat Shreyas, Austria	69	Hersey Melinda, USA
12	Bianchi Laura, USA	70	Hofstetter Willy, Switzerland
13	Bilsland Elizabeth, Brazil	71	Holy Marion, Austria
14	Borodina Irina, Denmark	72	Homolya Laszlo, Hungary
15	Boudker Olga, USA	73	Hovde Moriah, USA
16	Bryan Joseph, USA	74	Huttunen Kristiina, Finland
17	Burger Melanie, Austria	75	Ielasi Francesco, France
18	Burtscher Verena, Austria	76	Ilic Marija, Austria
19	Cabra Romina, Switzerland	77	Indiveri Cesare, Italy
20	Canul Juan, France	78	Ingles-Prieto Alvaro, Austria
21	Ceckova Martina, Czech Republic	79	Jackson Scott, Switzerland
22	Chang Yung-Ning, Germany	80	Jäntsch Kathrin, Austria
23	Charles Roch-Philippe, Switzerland	81	Jedlitschky Gabriele, Germany
24	Chiba Peter, Austria	82	Jentsch Thomas, Germany
25	Colas Claire, Austria	83	Jungnickel Katharina, Germany
26	Console Lara, Italy	84	Kanner Baruch, Israel
27	Csizmadia Georgina, Hungary	85	Karch Rudolf, Austria
28	Danbolt Niels Chr., Norway	86	Kardos Julianna, Hungary
29	Darbani Behrooz, Denmark	87	Kell Douglas, United Kingdom
30	Das Anand, Austria	88	Khan Jawad, Austria
31	Daws Lynette, USA	89	Khoshbouei Habibeh, USA
32	de Ceglia Roberta, Switzerland	90	Khunweeraphong Narakorn, Austria
33	Delpire Eric, USA	91	Kickinger Stefanie, Austria
34	Di Fulvio Mauricio, USA	92	Klimek Christoph, Austria
35	Dickens David, United Kingdom	93	Koban Florian, Austria
36	Digles Daniela, Austria	94	Konrad Lisa, Denmark
37	Duerr Katharina, United Kingdom	95	Kovacs Peter, Hungary
38	Dujic Tanja, Bosnia and Herzegovina	96	Kovalchuk Vasylyna, Poland
39	Dürrenberger Franz, Switzerland	97	Krantz David, USA
40	Dvorak Vojtech, Austria	98	Kunert Lisa, Austria
41	Ecker Gerhard F., Austria	99	Kunze Markus, Austria
42	Ehrmann Alexander, Germany	100	Lackner Daniel, Austria
43	Eliasson Lena, Sweden	101	Langer Oliver, Austria
44	Esendir Eray, Austria	102	Lin Landon, USA
45	Essletzbichler Patrick, Austria	103	Lindegaard Madsen Kenneth, Denmark
46	Fagan Rita, USA	104	Lineiro Retes Eva, Austria
47	Farkas Bianka, Hungary	105	Liu Shenping, USA
48	Fets Louise, United Kingdom	106	Ljubišic Tea, Croatia
49	Foster James D., USA	107	Loland Claus, Denmark
50	Freissmuth Michael, Austria	108	López-Corcuera Beatriz, Spain
51	Friemann Rosmarie, Sweden	109	Luethi Dino, Switzerland
52	Fuchs Claudia, Austria	110	Maier Julian, Austria
53	Füzi Barbara, Austria	111	Malinen Melina, Finland
54	Galli Aurelio, USA	112	Manatschal Cristina, Switzerland
55	Gechijian Lara, USA	113	Markowicz-Piasecka Magdalena, Poland
56	Geertsma Eric, Germany	114	Martini Riccardo, Austria
57	Gether Ulrik, Denmark	115	Mayer Felix, USA
58	Gilman Lee, USA	116	McNair Laura F., Denmark
50		110	Baara i j Dominan

- Mehdipour Ahmad Reza, Germany
- 118 Melikian Haley, USA
- 119 Moskovskich Anna, Austria
- 120 Mózner Orsolya, Hungary
- 121 Mueller Andre, Austria
- 122 Murakami Satoshi, Japan
- Nalecz Katarzyna, Poland 123
- 124 Neumann Caroline, Denmark
- 125 Niello Marco, Austria
- 126 Nies Anne, Germany
- 127 Onstein Svenja, Austria
- 128 Papakostas Konstantinos, Austria
- 129 Prabhala Bala Krishna, Denmark
- Preobraschenski Julia, Germany 130
- 131 Rebsamen Manuele, Austria
- 132 Reyes Nicolas, France
- 133 Rigó Réka, Hungary
- 134 Rivera Claudio, Finland
- 135 Rosenberg Paul, USA
- 136 Ryan Renae, Australia
- 137 Sandtner Walter, Austria
- 138 Sarkadi Balazs, Hungary
- Scarabottolo Lia, Italy 139
- 140 Schütz Gerhard, Austria
- 141 Sedlyarov Vitaly, Austria
- 142 Shi Lei, USA
- 143 Sijben Huub, The Netherlands
- 144 Sikimic Jelena, Germany
- 145 Sitte Harald, Austria
- 146 Skucha Anna, Austria
- 147 Steppan Claire, USA

- Stieger Bruno, Switzerland 148
- 149 Stockner Thomas, Austria
- 150 Sucic Sonja, Austria
- 151 Superti-Furga Giulio, Austria
- Svoren Martin, Czech Republic 152
- 153 Szakacs Gergely, Austria
- Szczygiel Malgorzata, Poland 154
- 155 Szekely Virag, Hungary
- 156 Szilvasy Nora, Hungary
- 157 Szöllősi Dániel, Austria
- 158 Terajima Masaomi, Japan
- 159 Tzvetkov Mladen, Germany
- Underhill Suzanne, USA 160
- Vagiannis Dimitrios, Czech Republic 161
- 162 van der Hoek Steven, Denmark
- 163 van Meyel Don, Canada
- 164 Vandenberg Robert, Australia
- Vaughan Roxanne, USA 165
- 166 Vellonen Kati-Sisko, Finland
- 167 Vlachodimou Anna, The Netherlands
- 168 West Alyssa, USA
- 169 Wiedmer Tabea, Austria
- 170 Windt Timea, Hungary
- 171 Wolf Gernot, Austria
- 172 Yang Jae-Won, Austria
- 173 Zagubnaya Olga, Russia
- Zdrazil Barbara, Austria
- 175 Zhou Yun, Norway
- 176 Zhu Rong, Austria
- 177 Ziegler Christine, Germany
- 178 Kasture Ameya, Austria

Photos

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Freja Herborg



Jenny I. Aguilar



Louise Fets



Rita R. Fagan



Manuele Rebsamen



Bala Krishna Prabhala



Alyssa West



Shreyas Bhat



Andre Bazzone



Caroline Neumann



Ahmad Reza Mehdipour



Dániel Szöllősi



Felix Mayer (who was promoted to speak in Session 1 last minute due to an emergency cancellation)



(Almost) all speakers of the Young Scientists sessions together with Chairs Peter Chiba and Thomas Stockner

Plenary speakers:



Susan G. Amara



Thomas Jentsch



Satoshi Murakami



Christine Ziegler

Comments of attendants about the Meeting

Prof. Dr. Giulio Superti-Furga (Scientific Director, CeMM):

"The first ITTS conference was a great success, congratulations. You have done a wonderful job in assembling and organizing the community of transporters scientists. On behalf of all scientists involved at RESOLUTE but also from me personally: thank you for allocating a whole session to the RESOLUTE effort. It was a defining moment for this effort and we are grateful for the opportunity. But we are also very grateful from my Vienna research group perspective. The posters were very well attended and we got useful input. Manuele was thrilled to give a talk and also of course very glad to get a prize. I do not need to tell you, as you invented it, how motivating this is for him, and the entire group."

Prof. Dr. Satoshi Murakami (Department of Life Science and Technology Tokyo Institute of Technology):

"... Conference itself was really interesting, of course. And all the events were just fantastic. You and your team organized and managed so well. Thanks."

Prof. Dr. Anne T. Nies (Dr. Margarete Fischer-Bosch-Institut für Klinische Pharmakologie):

"... Once again I would like to thank you and your team for the excellent conference. And thank you very much for choosing my proposed symposium for presentation."

Dr. Manuele Rebsamen (Postdoctoral Fellow, CeMM):

"Thank you very much for the great organisation of the conference! I really enjoyed the ITTS meeting."

Alyssa West (Graduate Student / Hashemi Group, Department of Chemistry and Biochemistry, Univ. Of South Carolina):

"I greatly enjoyed the conference as well as the chance to present my research."