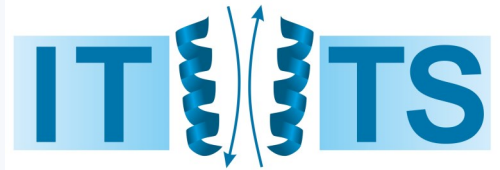


International Transmembrane Transporter Society



Newsletter

Volume 2, Issue 1
February 2016

A Word From the President

Greetings to the ITTS membership! Membership has continued to grow as news about the Society has spread over the past year. As we pass our one-year anniversary, it is now time for members to renew! We will be sending reminders by email, and appreciate your continued support by renewing your membership.

We've included a new feature in this newsletter, announcing our members' most recent accomplishments. This includes publications of note, promotions/appointments and awards. We hope you enjoy seeing what your colleagues have been up to. Please keep us in the loop so we can include your exciting achievements in future issues.

You will also find the latest updates on upcoming transporter meetings and photos from the past "Brain Transporters" meeting held in Palm Cove, Australia. Behind the scenes, we are working to host our first transporter meeting, potentially in 2017. As this process moves forward, we will be sure to keep our members updated with the details!

Best wishes,

Haley E. Melikian
President

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ITTS Accomplishments and News Stories

Randy D. Blakely, Ph.D., named Executive Director of FAU Brain Institute



Randy Blakely, Ph.D.

Randy D. Blakely, Ph.D. has been named Executive Director of the newly-formed FAU Brain Institute, at Florida Atlantic University in Boca Raton, Florida. Blakely is an internationally renowned neuroscientist with expertise in neurotransmitter transporters, synaptic molecular biology, and human genetics. He is currently the Allan D. Bass Professor of Pharmacology; and the Director of the Vanderbilt/NIMH Postdoctoral Training Program in Functional Neurogenomics, and Professor of Psychiatry at Vanderbilt University. Blakely will join FAU in May 2016.

http://www.fau.edu/explore/homepage-stories/2015_12blakely.php

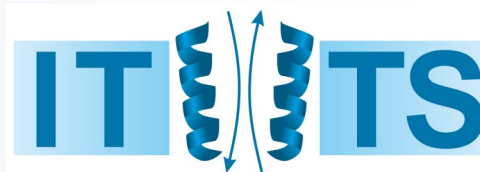
News From New ITTS Members Graduate Student Receives HHMI International Student Research Fellowship

Colleen Carpenter, a graduate student under the mentorship of Margaret Gnegy, Ph.D. (Department of Pharmacology, University of Michigan), has been awarded an International Student Research Fellowship from the Howard Hughes Medical Institute (HHMI). HHMI established the International Student Research Fellowships Program to support international students during their third to fifth years of graduate school in the United States. Carpenter was one of 45 pre-doctoral fellows selected out of 329 applications. The awardees will receive \$43,000 during each year of the fellowship.

<https://www.hhmi.org/news/hhmi-selects-45-international-student-research-fellows>



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ITTS Members with New Publications

Gary Rudnick, Ph.D. - Published in the Journal of Biological Chemistry

Professor of Pharmacology - Yale University

Area of Research: Structure/Function relationship of monoamine transporters

New Publication: *Two Na⁺ Sites Control Conformational Change in a Neurotransmitter Transporter Homolog* (<http://www.jbc.org/cgi/doi/10.1074/jbc.M115.692012>)

Haley E. Melikian, Ph.D. - Published in PNAS

Associate Professor of Psychiatry - Brudnick Neuropsychiatric Research Institute

University of Massachusetts Medical School

Area of research: Regulation of monoamine transporters

New Publication: *Ack1 is a dopamine transporter endocytic brake that rescues a trafficking-dysregulated ADHD coding variant* (<http://www.pnas.org/cgi/pmidlookup?view=long&pmid=26621748>)

Harald Sitte, M.D. - Published in Molecular Pharmacology

Professor of Psychopharmacology - Medical University Vienna, Austria

Area of Research: Structure/Function relationship of monoamine transporters

New Publication: *Binding Mode Selection Determines the Action of Ecstasy Homologs at Monoamine Transporters* (<http://molpharm.aspetjournals.org/content/89/1/165.abstract>)

Habibeh Khoshbouei, Pharm.D., Ph.D. - Published in Nature Communications

Associate Professor of Neuroscience - University of Florida

Area of Research: Biology of dopamine transporter in health and disease

New Publication: *Membrane potential shapes regulation of dopamine transporter trafficking at the plasma membrane* (<http://www.nature.com/ncomms/2016/160125/ncomms10423/full/ncomms10423.html>)

Peter Hinterdorfer, Ph.D. - Published in Angewandte Chemie

Professor of Applied Experimental Biophysics - Institute for Biophysics

Christian Doppler Laboratory of Nanoscopic Methods in Biophysics - Johannes Kepler University Linz

Area of research: Structure/Function relationship of monoamine transporters

New Publication: *Nanopharmacological Force Sensing to Reveal Allosteric Coupling in Transporter Binding Sites* (<http://onlinelibrary.wiley.com/doi/10.1002/anie.201508755/abstract>)

Seok-Yong Lee, Ph.D. - Published in Nature

Assistant Professor of Biochemistry - Duke University School of Medicine

Area of research: Structures and mechanisms of membrane transport by ion channels and transporters

New Publication: *Cryo-electron microscopy structure of the TRPV2 ion channel* (<http://www.nature.com/nsmb/journal/vaop/ncurrent/full/nsmb.3159.html>)

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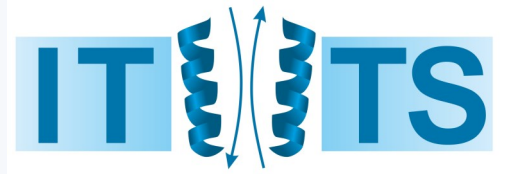


Report from 2015 meetings

“Brain Transporters: From Genes and Genetic Disorders to Function and Drug Discovery”, was held in Palm Cove in sunny north Queensland, Australia, August 20-23, 2015. This meeting was a satellite meeting to the “International Society of Neurochemistry”, held just down the road, in Cairns. Pictured are participants from the Brain Transporters meeting, who enjoyed great science, a great venue and great fun...including golf with kangaroos and the Great Barrier Reef. The local organizing committee, headed by Rob Vandenberg and Renae Ryan, did an amazing job putting together a stellar program.

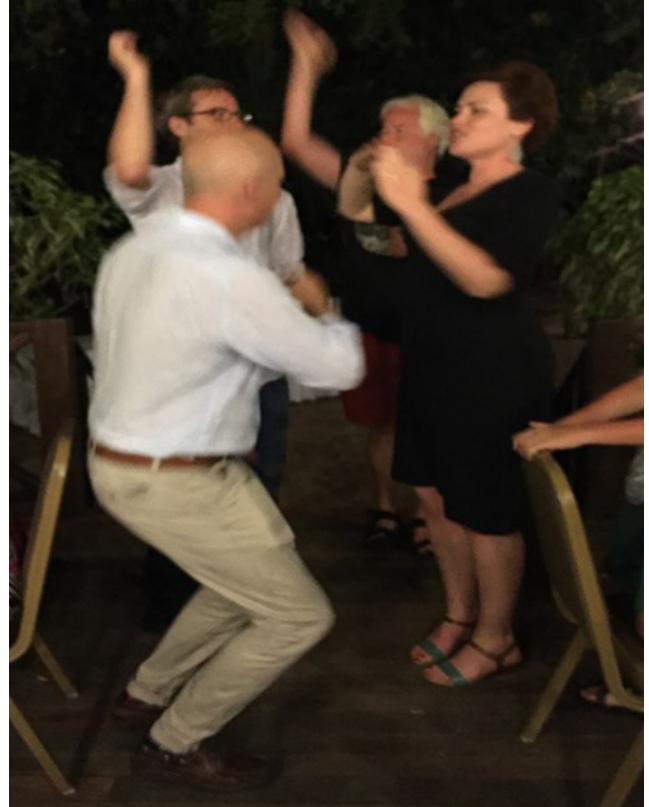


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Report from 2015 meetings

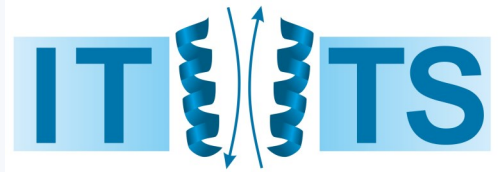
58th Annual Symposium: Transmembrane Transporters in Health and Disease



Brain Transporters: From Genes and Genetic Disorders to Function and Drug Discovery...Rob, Renae and friends, demonstrate how the glutamate transporter gates.



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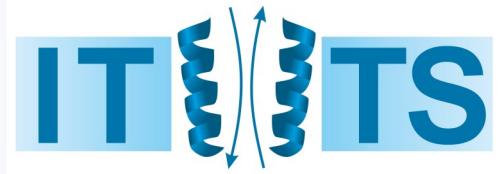
Report from 2015 meetings

SFB35 8th Annual Symposium: Transmembrane Transporters in Health and Disease

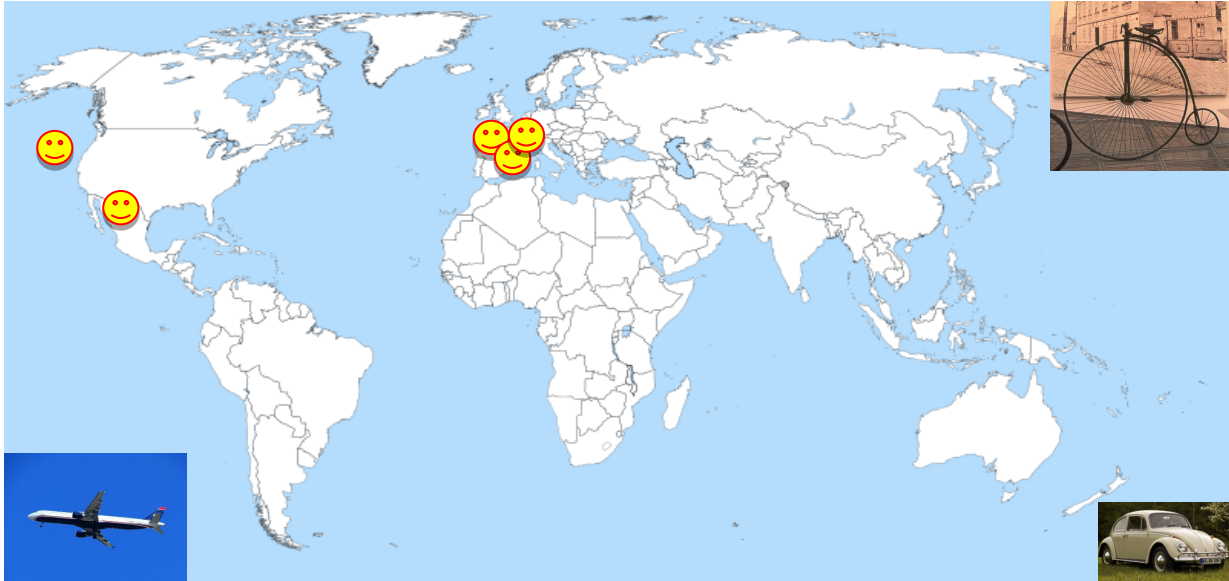


Transmembrane Transporters in Health and Disease". Again, the SFB-symposium took place in Vienna, Austria - already a little tradition for transportologists from all over the world to meet in early fall. The meeting brought great science, a number of new structural insights, a good representation of computational scientists as well as members from both neurotransmitter transporter and ABC transporter communities. All together, it was a real pleasure not only to listen to the talks but also exchange new insights and ideas in front of the posters. As usual, the social programme included a visit in the Vienna townhall for a meet and greet with the Mayor of Vienna and the traditional "Heurigen"-Restaurant in Nussdorf with great food, good wine and decent music. <http://www.sfb35.at/ger/symp15.html>

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Transporters around the world - transport-related conferences, an overview



March 6-11, 2016 —

Gordon Research Conference

Location: Hotel Galvez, Galveston, TX, USA.

Protein Transport Across Cell Membranes: Mechanism, Structure, and Regulation
(<http://www.grc.org/programs.aspx?id=13920>)

Also Gordon Research Seminar — March 5-6, 2016: (<http://www.grc.org/programs.aspx?id=15423>)

April 13-15, 2016 —

The 10th Transporter Colloquium

Conference of the German Society for Biochemistry and Molecular Biology, Study Group Biomembranes

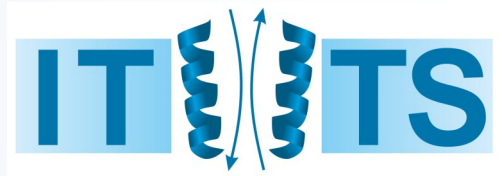
Location: Schloss Rauschholzhausen, Germany

ON: Translocation in and across biologic membranes; Structures of membrane proteins; drug transporters; solute carriers in health and diseases; Membrane protein folding, insertion and design; Lipidomics

(<http://www.biochemistry1.hhu.de/rauschholzhausen.html>)

Deadline for registration is February 28, 2016

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Transporters around the world - transport-related conferences, an overview

2016 (continued)

May 2 - May 4, 2016 —

18th Barrier - and Transporter – Meeting

Location: Bad Herrenalb, Germany (close to Karlsruhe)

Subject of this workshop are membrane transport proteins in barrier organs, drug transport and drug delivery across biological membranes as well as screening models such as MCDK or Caco-2 cells.

<https://sites.google.com/site/transportertage/home>

Registration until April 15th, 2016

June 12-17, 2016 —

Gordon Research Conference: Membrane Transport Proteins

Location: Renaissance Tuscany Il Ciocco, Lucca (Barga), Italy.

(<http://www.grc.org/programs.aspx?id=12736>)

Application deadline: May 15, 2016

Also Gordon Research Seminar — June 11-12, 2016 <http://www.grc.org/programs.aspx?id=17202>

Application deadline: May 14, 2016

August 31-September 2, 2016 —

Annual Meeting of the Special Research Programme 35 “Transmembrane Transporters in Health and Disease”

Location: Medical University Vienna, University Dental Clinics, Vienna, Austria.

Application deadline: June 30, 2016

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RENEW YOUR MEMBERSHIP TODAY

We encourage you to continue your support of this vibrant young society and be part of its growth and development by renewing your ITTS membership. Your ITTS membership includes benefits such as this newsletter, which is sent twice a year detailing the latest news and events in the transporter world. ITTS also sponsors annual networking events and is planning to host its first scientific meeting in 2017. Please do your part for ITTS and encourage your colleagues to join today.

SPREAD THE WORD...MEMBERSHIP DRIVE

Annual membership dues are: \$50 USD for regular members and \$25 USD for graduate students

Payment for renewals and new membership can be made through the ITTS website or by check

DRIVE STARTS MARCH 1, 2016

Payment Options:

To join and pay online:

- Visit <http://www.ittsociety.org/membership/> and complete the form

To pay by check:

- Visit <http://www.ittsociety.org/membership/> to download the application and make check payable to: "International Transmembrane Transporter Society"

Mail to:

Dr. Habibeh Khoshbouei
Department of Neuroscience
University of Florida
P.O. Box 100244
Gainesville, FL 32610-0244

Address Change:

Be sure we have your current email address as all communications with members are carried out via the internet. If you have changed your address, please send it to Habibeh Khoshbouei (Secretary/Treasurer) at habibeh@ufl.edu.

Newsletter:

All Society members can send any news, announcements, outstanding achievements, and other contributions for inclusion in the biannual newsletter to Habibeh Khoshbouei (Secretary/Treasurer) at habibeh@ufl.edu.

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ITTS Executive Committee



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Medical School
Worcester, MA, USA



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