A word from...

It is my pleasure to introduce our October 2017 issue. Much of this issue is devoted to our upcoming 2018 biennial meeting to be held July 15-19 in Cork, Ireland. Our 2018 meeting is poised to be another fantastic showcase of state of the art serotonin research along with plenty of fun-filled networking opportunities. Along with our three named plenary lectures, we will have 14 symposia programmed in parallel and two special sessions. In addition, there will be dedicated oral sessions for young investigators (see the call for travel award applications on page 7 of this issue) and an evening poster session. One feature of the 2018 meeting is the addition of a speaker to each symposium selected from individual abstract submissions - so start writing those abstracts! The website will be open for registration and abstract submission in early January, 2018.

Speaking of our website - we are in the midst of a major update and revamp of the ISSR website in preparation to house our biennial meeting information pages, registration and abstract submission forms. We are hopeful that this will be seamless in the coming days/week(s), but in case you have any problems accessing the website for information, please don’t hesitate to contact me directly.

There is still time to RSVP for your attendance ([berg@uthscsa.edu](mailto:berg@uthscsa.edu)) at our upcoming ISSR mixer during the annual SfN meeting in Washington, D.C. We have two sponsors this year: ACS Chemical Neuroscience and San Diego Instruments. Due to their generosity, the fee remains a mere $10 USD per person (payable **in cash** at the door).

Lastly, I am pleased to announce that the ISSR itself will provide travel awards for young investigators to attend the 2018 meeting and your support (via membership dues) makes this possible - thank you! A gentle reminder: If you have not paid your dues for the 2017-2018 cycle, please take a moment and renew your membership (see page 11).

I look forward to seeing you in a few short weeks at our 2017 SfN mixer in D.C. and also in Cork for ISSR 2018!

Kelly A Berg  
ISSR Secretary/Treasurer
The 7th Annual ISSR Mixer
Neuroscience 2017

Tuesday, November 14, 2017, 6-8PM

FADÓ IRISH PUB AND RESTAURANT
808 7th Street NW, Washington DC
(one block from the convention center)

“Tis the luck of the Irish” as we return to Fadó’s for our 2017 social gathering. Please join us for great food, bountiful drink and very friendly banter in the relaxing ambiance of this traditional Irish Pub. All are welcome! So please plan to bring your friends and colleagues. The cost is $10 per person (payable in cash at the door) and includes two drink tickets and a mouth-watering appetizer buffet.

Space is limited, RSVP to berg@uthscsa.edu to reserve your spot.

I Heard It Through the Grapevine

Kudos to our very own VP-North America, Anne Andrews, PhD, who has joined the ranks of accomplished “High-Risk, High-Reward” NIH researchers by recently receiving a NIH Director’s Transformative Research Award! Anne’s award, titled “Micro- to Nano-scale Neurochemical Sensors” aims to transform research on anxiety and depression, by discovering, developing, and using in vivo neurotransmitter monitoring approaches to understand how serotonin (and other) systems encode emotionally important information.

For more details see
https://commonfund.nih.gov/TRA/recipients

Congratulations Anne!!!
“Cead Mile Failte” (A Hundred Thousand Welcomes)

We are really excited about the upcoming 19th Meeting of the International Society for Serotonin Research, which will be held on 15th-19th July 2018 at University College Cork (UCC), Ireland.

The full meeting program is now set (see the list of symposia and tentative program grid below) with very exciting Serotonin Symposia, international speakers and delegates. In addition to fantastic science, we have several networking social events planned during the meeting including the opening cocktail reception, a trip to Blarney castle, Pubnight with beer tasting, as well as a social evening planned specifically for our young investigators and the closing gala dinner (which of course will include some Irish dancing!).

The webpage for abstract submission and registration will be hosted on the Society webpage and is currently being designed and will be online early 2018 (watch this space). However, we are already able to give you some information on registration cost and available accommodation.

Also an impression of Cork and the “Wild Atlantic Way of Ireland” to whet your appetites to experience real Irish Culture and the Gaelic Heart!

Watch here for a real view of the Wild Atlantic Way: https://youtu.be/PIzU6Vhpzyw

Harriet Schellekens
Siobhan O’Mahoney

ISSR Meeting Local Organizing Committee
Special Session I. Gut-Brain-Microbiome Axis

S1. Impact of Serotonin at the Microbial & Immune Interface on Gut-Brain Signalling.
   **Chair:** John Cryan (University College Cork)
   **Speakers:** Gary Mawe (University of Vermont); Purna Kashyap (Mayo Clinic); Gerard Clarke (University College Cork)

S2. Serotonin as a Modulator of the Gut-Brain-Microbiome Axis in Depression and other Mental Health Disorders
   **Chairs:** Marc Caron (Duke University School of Medicine) and Michael Gershon (Columbia University Medical Center)
   **Speakers:** Ruth Ann Luna (Texas Children’s Hospital Microbiome Center), Kara Gross Margolis (Columbia University Medical Center), Jacob Jacobsen (Duke University)

S3. Serotonin Revisited – New Insights in Disturbed Functions in the Gastrointestinal Tract
   **Chairs:** Beate Niesler (University of Heidelberg) and Nicholas Barnes (University of Birmingham Medical School)
   **Speakers:** Beate Niesler, Michael Gershon (Columbia University) and Nicholas Barnes

Special Session II. 5-HT Receptor Signaling and Heteromerization

S1. Novel Functional Crosstalk and Heterodimerization of Serotonin Receptors in Mood and Social Behaviour.
   **Chairs:** Harriët Schellekens (University College Cork) and Kjell Fuxe (Karolinska Institutet)
   **Speakers:** Harriët Schellekens, Kjell Fuxe and Dasiel O. Borroto-Escuela (Karolinska Institutet)

S2. Serotonin Receptor Complexes as Key Players in CNS Function
   **Chairs:** Javier Gonzalez-Maseo (Virginia Commonwealth University)
   **Speakers:** Javier Gonzalez-Maseo, Noelle Anastasio (Univ Texas Medical Branch), Graeme Milligan (University of Glasgow)

S3. Three Crucial Factors that Underpin 5-HT2CR Function: Location, Location, Location
   **Chairs:** Lora Heisler (University of Aberdeen) and Zoe McElligott (University of North Carolina at Chapel Hill)
   **Speakers:** Lora Heisler, Zoe McElligott, and Giuseppe Di Giovanni (University of Malta)
<table>
<thead>
<tr>
<th>Symposium Title</th>
<th>Chair(s)</th>
<th>Speaker(s)</th>
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<tr>
<td>Delineating the Neural Circuits Underlying Serotonin Modulation of Fear and Anxiety</td>
<td>Anne Andrews (University California, Los Angeles) and Andrew Holmes (NIH/NIAAA)</td>
<td>Thomas Kash (University North Carolina), Anne Andrews and Andrew Holmes</td>
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<td>5-HT1F receptor agonists, the new kids on the block for antimigraine treatment</td>
<td>Antoinette Maassen van den Brink (Erasmus MC)</td>
<td>Carlos M. Villalón (Cinvestav-Unidad Sur), Antoinette Maassen van den Brink, and Kirk W. Johnson (Eli Lilly)</td>
</tr>
<tr>
<td>Serotonin Transport Proteins in Ecstasy: SERTS and OCTS in a Frenzy</td>
<td>Harald H. Sitte (Medical University Vienna) and Lynette C. Daws (Univ Texas Health Science Center @ San Antonio)</td>
<td>Harald Sitte, Lynette Daws and Michael H. Baumann, (NIH/NIDA)</td>
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<td>Lucky 7 (5-HT7 Receptor): New Functions for a (relatively) New Colleague</td>
<td>Stephanie W. Watts (Michigan State University) and Carlos M. Villalon (Cinvestav-Unidad Sur)</td>
<td>Finn O Levy (University of Oslo), Gregory D Fink (Michigan State University), Jasmina Profirovic (St. Louis College of Pharmacy), Lary Jordan (University of Manitoba)</td>
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<td>Delving Deep into 5-HT Neurons: Probing Patterns and Regulation of 5-HT Transcriptomes and Translatomes</td>
<td>Evan Deneris (Case Western Reserve) and John Neumaier (University of Washington)</td>
<td>John Neumaier, Matthew Hodges (Medical College of Wisconsin), and Evan Deneris</td>
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<td>Improving Our Understanding of Serotonin in the Neurobiology of Psychosis</td>
<td>Kevin C F Fone (University of Nottingham) and Maarten van den Buuse (La Trobe University)</td>
<td>Maarten van den Buuse, Adam L Halberstadt (Univ California-San Diego), and Kevin C F Fone</td>
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<tr>
<td>Towards a Multiscale, Multispecies Perspective of Serotonergic Function</td>
<td>Trevor Sharp (University of Oxford) and KongFatt Wong-Lin (University of Ulster)</td>
<td>Harry Steinbusch (Maastricht University), Jeremiah Cohen (Johns Hopkins University School of Medicine), Kae Nakamura (Kansai Medical University), and KongFatt Wong-</td>
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<tr>
<td>Serotonin, Inflammation and Behaviour</td>
<td>Jana Haase (UCD Conway Institute) and Randy Blakely (Florida Atlantic University)</td>
<td>Randy Blakely, Daniel Anthony (University of Oxford), Francisco J. Monje-Quiroga (Medical Univ of Vienna), and Jana Haase</td>
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The Role of Serotonin in Synaptic Structure and Plasticity

**Chairs:** Mark Rasenick (U. Illinois Chicago College of Medicine) and Charles Nichols (LSU Health Sciences Center)

**Speakers:** Evgeni Ponimaskin (University of Gottingen), Mark Rasenick, and Charles Nichols

Serotonin and Mental Illness: From Brain Development to Adult Dysfunction

**Chairs:** Natalia Alenina (Max Delbrück Center for Molecular Medicine) and Marco A. Riva (University of Milan)

**Speakers:** Judith Homberg (Radboud University Medical Centre), Francesca Calabrese (University of Milan), and Silvina Diaz (Universidad de Buenos Aires-CONICET)

Feedback Control of Serotonin in Behavior and Antidepressant Response

**Chairs:** Kathryn Commons (Children’s Hospital/Harvard Medical School)

**Speakers:** Paul Albert (University of Ottawa), E. David Leonardo (Columbia University), Katherine Nautiyal (Columbia University & Dartmouth College)

Serotonin Regulation of Dendritic Spines

**Chairs:** Nancy Muma (University of Kansas School of Pharmacy)

**Speakers:** Jens Randel Nyengaard (Aarhus University Hospital), Monika Bijata (University of Gottingen), and Nancy Muma

Serotonin and Autism Spectrum Disorder: Hypersertonemia and Beyond

**Chairs:** Marcello Leopoldo (University of Bari Aldo Moro)

**Speakers:** Jeremy Veenstra-Vanderweele (New York State Psychiatric Institute), Michael A. Ragozzino (University of Illinois at Chicago), and Marcello Leopoldo

Multilevel Assembly of Serotonin Circuits and Its Impact on Emotional and Motivated Behaviors

**Chairs:** Mariano Soiza-Reilly (Institut du Fer a Moulin) and Alvaro Garcia-Garcia (Columbia University)

**Speakers:** Alexandre Dayer (University of Geneva), Susan Dymecki (Harvard University), and Mark Ansorge (Columbia University)

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**ISSR Meeting 2018 Registration Fees**

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<th>Category</th>
<th>Before March 30 ($)</th>
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<tr>
<td>Retired/Emeritus delegate</td>
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<td>Travel Awardees</td>
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"Serotonin on the Wild Atlantic Way" Preliminary Program

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**Parallel Symposia 1/2**
- Andrews/Holmes
- plus speaker selected from abstracts

**Parallel Symposia 3/4**
- Sitte/Daws
- plus speaker selected from abstracts

**Parallel Symposia 5/6**
- Deneris/Neumaier
- plus speaker selected from abstracts

**Parallel Symposia 7/8**
- Sharp/Wong
- plus speaker selected from abstracts

**Parallel Symposia 9/10**
- Rasenick/Nichols
- plus speaker selected from abstracts

**Parallel Symposia 11/12**
- Muma
- plus speaker selected from abstracts

**Parallel Symposia 13/14**
- Commons
- plus speaker selected from abstracts

**Registration**
- (Badge/Program pick up)
- Travel Award Breakfast
  - (invitation only)
- BLARNEY CASTLE TRIP
  - (w packed lunch)
  - 2.45 hours
  - (6 miles away- 15 min by bus)

**Poster Session**
- 5:30-7:30PM
- *posters will be accessible for viewing throughout conference

**Vanhoutte Lecture**
- Kathryn Cunningham
  - (60 min total)

**Rapport Lecture**
- Mark Geyer
  - (60 min total)

**Banquet & Awards (7-10PM)**
- *Aula Maxima/Irish dancing

**Pioneers/prodigies: travel award session #1**
- Chair: Gaspar
  - 4 speakers (60 min)

**Pioneers/prodigies: travel award session #2**
- chair: Cunningham
  - 4 speakers (60 min total)

**Opening Cocktail Reception**
- 5:30-8:00PM
- *Glucksman

**Poster Session**
- 5:30-7:30PM
- *posters will be accessible for viewing throughout conference

**Vanhoutte Lecture**
- Kathryn Cunningham
  - (60 min total)

**Rapport Lecture**
- Mark Geyer
  - (60 min total)

**Banquet & Awards (7-10PM)**
- *Aula Maxima/Irish dancing

**END of Conference**
Applications are invited for travel awards to attend the 2018 meeting of the ISSR. These awards will cover meeting registration and provide financial support to help defray travel costs for young investigators to attend and participate in the 2018 meeting. The size of award will be contingent upon need (i.e. distance to travel). Applicants will be notified as soon as possible after the submission deadline of December 15, 2017, but no later than Jan 31, 2018. Awardees will speak in the “Pioneers and Prodigies” symposium and present their work as a poster. Awardees will be matched with a member of the ISSR who will serve as mentor and help with networking throughout the meeting.

Eligibility: Graduate students and post-doctoral fellows may apply. Individuals already taking part in a programmed symposium are not eligible. Membership in the ISSR is not a requirement to apply, however, membership is strongly encouraged/desirable (instructions for how to join the ISSR may be found at www.serotoninclub.org).

Selection Criterion: Selection of Travel Awardees will be based on:

• The quality of submitted abstract: The abstract must be of high scientific rigor and present novel, previously unpublished data.
• Curriculum vitae: The applicant’s curriculum vitae must demonstrate a track record of scientific excellence and productivity, commensurate with the career stage of the applicant.
• Letter of support from the Chair or Head of Department: This letter must document that the applicant is in good academic standing and comment on the applicant’s potential for a career as an independent scientist.

Please submit all applications to Dr. Kelly Berg (berg@uthscsa.edu)

Cork City Hotel accommodation

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<th>Hotel</th>
<th>Block ID – UCC</th>
<th>Rooms Held</th>
<th>Single</th>
<th>Twin/Double</th>
<th>Website</th>
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<tbody>
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<td><strong>The River Lee 4</strong>*</td>
<td>UCCA150717</td>
<td>35 rooms</td>
<td>€130.00</td>
<td>€185.00. BB</td>
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<td><strong>The Kingsley 4</strong>*</td>
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<td>30 rooms</td>
<td>€140 single</td>
<td>€155 twin/ double BB</td>
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<td>20 rooms held</td>
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**Bed & Breakfast accommodation (€100-130 B&B)**

- [http://www.garnish.ie/](http://www.garnish.ie/) 3*
- [http://www.shandonbells.com/](http://www.shandonbells.com/) 3*
- [http://killarneyhouse.com/](http://killarneyhouse.com/)

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**Student accommodation**

*Contact Michelle Devaney at beds@ucc.ie*

- €48.00 for bed and Continental Breakfast for the dates that you require. Each guest will have their own single ensuite bedroom with bed linen and towels supplied

- Castlewhite Apartments (€42/pp/pn, B&B and sharing!)
  - A three bedroom apartment is €105 for a night and €420 for a week
  - A four bedroom apartment is €140 a night and €560 per week
  - A five bedroom apartment is €175 a night and €630 per week

- University Hall
  - €55.00 per person per night on a self-catering basis.
Obituary

Dr Mike Tyers worked as a pharmacologist at Glaxo and then GlaxoWellcome for nearly 40 years and during those years was proud to be part of the pharmacology tradition within the company. He died peacefully on 23rd June 2017, after a long illness. He provided tremendous leadership for those of us who worked for him during those years and I will always remember his enthusiasm for discovering new medicines, and his great humanity and sense of fun.

Mike studied pharmacology as part of his B.Sc, which he completed in 1968. He carried out a project on muscarinic receptors which was written up in a bound volume. This included various smoked drum traces, giving us some idea as to the vintage! He carried out a Ph.D. whilst working at Glaxo, studying ultra-short-acting neuromuscular blockers, completing it in 1975.

Mike’s biggest contribution to medicine was the discovery of the 5HT3 receptor antagonist Ondansetron (Zofran), which was launched for chemotherapy-induced emesis in 1990. Mike pioneered the study of 5HT3 receptors at Glaxo, but when the compound was first made, it was a drug looking for an indication. Ondanetron entered clinical trials initially for migraine, and although it did not reduce the pain, it did reduce the accompanying emesis and Mike championed further studies in emesis (in ferrets before humans!). I will always remember the stories that were relayed back to Glaxo from patients, about the difference Zofran made to their cancer treatment. Before the launch of the drug, chemotherapy was accompanied by days of nausea and vomiting, which was so bad that by the third or fourth cycle, patients would anticipate sickness even on their way to hospital. Zofran was very effective in completely eradicating nausea and vomiting and 5HT3 antagonists still form the mainstay of anti-emetic treatment after chemotherapy. Zofran was also launched for post-operative nausea and vomiting. The Prix Galien was awarded to Glaxo in 1990 for the launch of Zofran and, as project leader, Mike received the award on behalf of the team. He has been given many personal awards, including the Mullard award in 1997 for his work on serotonin receptors and The Discoverer award from the Pharmaceutical Research and Manufacturers of America in 1997. He was given a honorary professorship at Bradford University in 1994.

Life at Glaxo was characterised by hard work and great productivity but also great fun, and Mike loved to share in the fun. He was a key part of the interdepartmental netball team, where he played a goal shooter, somewhat helped by the fact that at 6 feet 5 inches tall, he could just pop the ball into the net. Practical jokes were a frequent occurrence, including the time when we threw some ‘stain’ over Malcolm Skingle’s back and then sent him to the Personnel Department to get a refund on his shirt. It was actually disappearing ink so by the time he got there it had completely gone, much to the bemusement of the head of Personnel.

Mike’s career was cruelly cut short by his diagnosis of a brain tumour, and he retired in 1999. However, this was a minor miracle in itself because, having been given a very poor prognosis, Mike opted for pioneering treatment in the US and went on to live for many more years. The last few years must have been very hard for him as he developed a brain neurodegenerative disorder, probably a delayed effect of the radiotherapy he received many years earlier. But even here Mike was inspirational, rarely complaining and always more concerned about his family than himself.

Apart from an illustrious career, Mike also had many interests. As a young man, he travelled around the world bell-ringting with his brother; he was a serious rower and even rowed as a ‘veteran’ until his illness; and he was a wonderful photographer. After his retirement, he trained to become a Reader in the Church of England and played an active role in the church. He had five children Clare, Mark, Naomi, Josie and Issy, and six grandchildren. Mike will be remembered for his legacy contribution to cancer therapy, but also for his kind and generous nature as a father, husband, grandfather, and friend to so many, and for his joy for life.

Ann Hayes.
We are sad to announce that Dennis L. Murphy, M.D., former Chief of the Laboratory of Clinical Science at the National Institute of Mental Health (NIMH) Intramural Research Program (IRP), passed away on Saturday, September 23, 2017, after a brief illness.

Dr. Murphy was a giant in research geared toward understanding the etiology of, and improving treatments for, psychiatric disorders. In particular, he was known for his research exploring mood and anxiety disorders. His life’s work primarily focused on the serotonin neurotransmitter system and the serotonin transporter (SERT). Applying a sophisticated array of molecular, neurochemical and genetic approaches, Dr. Murphy made seminal contributions to the field. The ISSR recognized his exceptional career, by honoring him as the “Rapport Plenary Lecturer” at the 2008 meeting in Oxford, UK.

Dr. Murphy was a distinguished researcher and mentor across more than four decades in the IRP. In addition to authoring over 900 papers and four books, Dr. Murphy’s legacy includes over 100 students and fellows, of whom more than 30 went on to serve as chairs of psychiatry and basic science departments around the world.

Dr. Murphy received his undergraduate degree from Marquette University, and his Medical and Master of Science degrees from the Medical College of Wisconsin, before completing a residency in psychiatry at The Johns Hopkins University. He joined NIMH as a clinical fellow in 1966 and became Chief of the Clinical Neuropharmacology Branch in 1977, which was incorporated within the Laboratory of Clinical Science in 1983. Dr. Murphy received numerous awards and distinctions including: two Presidential Meritorious Executive Rank Awards; the U.S. Public Health Service’s Superior Service Award; the Department of Health and Human Services’ Distinguished Service Award; the Alcohol, Drug Abuse and Mental Health Administration’s Meritorious Service Award; the American Psychiatric Association’s Hofheimer Prize for Research; and, the Society for Biological Psychiatry’s A.E. Bennett Award for Clinical Research.

Dr. Murphy was also an avid traveler, photographer, skier, and tennis enthusiast. He is survived by his wife, Dr. Nancy Garrick, also of NIH, and their daughter, Julia. He is also survived by two sons, David and Steve.

(Adapted from obituary by Joshua A Gordon, MD, PhD, Director, National Institute of Mental Health)
International Society for Serotonin Research (ISSR) Membership

It's not too late......

Renew your 2017-2018 membership

Please remember that membership dues are currently the only source of revenue for the ISSR. Your dues payments provide the support needed to maintain viability of our Society.

Thank you for your support!!!!

Benefits of ISSR Membership:
• Networking opportunities to form collaborations with other serotonin researchers
• Opportunity for professional development and leadership in the Society
• Opportunity to submit proposals and chair a symposium at our international biennial meetings
• Discounted registration fees to attend our international biennial meetings (next to be held July, 2018 Cork, Ireland)
• Information/invitations to ISSR sponsored events
  (e.g., FENS, SfN mixers)
• Delivery of our Society newsletters directly to your email “in-box”

Dues rates and payment instructions
(Note: memberships are now on a 2 year cycle, current cycle is 2017-2018)

Regular Members (e.g., faculty or equivalent): $100 USD/2-year
Trainees (Graduate Students/Post-docs): $60 USD/2-year
Retired Members: $60 USD/2-year

Note: we require email confirmation of student or post-doc status from the mentor.

Payment by credit card can be made at our ISSR website (http://serotoninclub.org/). In some cases, we are able to accept bank wire transfers for dues, please contact Kelly (berg@uthscsa.edu) to make arrangements. Alternatively, you may send a check or money order payable to the “International Society for Serotonin Research” to Kelly at the address below.

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Follow US

**Address change?** All communications with members are carried out via the internet so if we do not have your current e-mail address you risk losing all contact with the Society.
If you have changed your address, send it now while you are thinking about it. Kelly Berg (Secretary/Treasurer)
BERG@uthscsa.edu

@5HT_Society


Remember, we now have a Facebook page as well. Make sure you visit the site at
[www.facebook.com/pages/SerotoninClub/170600399644105](http://www.facebook.com/pages/SerotoninClub/170600399644105) and “like” the Club to join.

**Newsletter** All Society members can send their contributions to the Newsletter, including article highlights, meetings/workshops details, job ads and any other relevant information.
Send your contribution to the editor (Sebastian Fernandez, fernandez@ipmc.cnrs.fr)