

ISN-REPORT ON THE SUPPORTED SYMPOSIUM AT REGPEP24  
STIRLING SCOTLAND, AUGUST 2022

## REPORT OF ISN-SUPPORTED SYMPOSIUM

### RegPep 24 Meeting:

24<sup>th</sup> International Symposium on Regulatory Peptides (RegPep24)

**Venue:** University of Stirling, Scotland, UK

**Date:** August 1-5, 2022

**Organizers:** Dr. Lee E. Eiden (Chair of the program committee)  
Dr. Limei Zhang (Chair of the organizing committee)

**Website:** <http://www.regpep.org/>

### ISN-sponsored young investigator symposium:

Oxytocin and Vasopressin: Circuits and Behavior

(Symposium No.1, Tuesday, August 2<sup>nd</sup>, 2022)

Chair: Vito Hernández

## 1. Speakers

### Symposium 1 Oxytocin and Vasopressin: Circuits and Behavior

Chaired by: Vito Hernandez (México)

#### S1-1 Lei Xiao Fudan

University, Shanghai, China.

*Morpho-electric properties and diversity of oxytocin neurons in mouse paraventricular nucleus of hypothalamus*

#### S1-2 Quirin Krabichler

University of Heidelberg, Mannheim, Germany.

*A novel transgenic arginine vasopressin (AVP)-IRES2-Cre rat line: Characterization, mapping of connectivity, and recording of neuronal activity*

#### S1-3 Amelie Soumier

le Vinatier Hospital and Institute of Cognitive Science Marc Jeannerod, CNRS, Bron, France.

*3D mapping of oxytocin and vasopressin neurons ontogenesis in the mouse brain*

#### S1-4 Oscar R. Hernández-Perez

Centro de Investigación y Asistencia en Tecnología y Diseño del Estado de Jalisco, A.C. and UNAM, México City, México

*Differential activation of arginine-vasopressin receptor subtypes in distinct amygdaloid subdivisions modulating emotional responses in the rat*

#### S1-5 Mario Zetter

National Autonomous University of Mexico, Mexico City, México.

*Vasopressin acts as a synapse organizer by boosting PSD95 and GluA1 expression*

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## 2. Description of the RegPep24 meeting

Throughout these years, RegPep has been a constant source of intellectual renewal in the promise of peptides for understanding fundamental neuroscience and endocrinology and focusing this knowledge clinically and in new drug discovery. RegPep celebrates the triad of physiology, medicine, and pharmacology in both a practical and an intellectual way. Intellectually, knowledge about new peptides in various species is of basic interest no matter in what species the initial discoveries are made. Information about the pharmacological effects of administered peptides in humans, or detection of altered peptide levels in various human diseases such as hypoparathyroidism, diabetes, epilepsy, and so forth allows confirmation of the importance of the new peptide research findings in clinical medicine.

RegPep meetings promote the exchange of scientific information, peer-to-peer interaction, themes discussion re: overarching issues among regulatory peptide scientists; establishment of collaborations; testing of new hypotheses for experiments in break-out and informal discussion groups; introduction of new and early career scientists; cross-disciplinary information exchange; creation through discussion of 'virtual drug pipeline' for discussion/resolution of problems associated with translation of basic research, pooling of reagents and resources

**This 24<sup>th</sup> celebration of the RegPep meeting was attended by:** 91 participants with the following demographics: origin: 16 from the UK and 75 international participants (Australia, Austria, Brazil, Canada, China, France, Germany, Italy, Hungary, Malaysia, Mexico, Netherlands, New Zealand, Norway, Poland, South Africa, United States); gender distribution: 40% female, 60% male; education level: 80% post-doctoral, 20% pre-doctoral.

## 3. Description of ISN-CC supported Young Investigator Symposium

| RegPep24: Tuesday, August 2nd, 2022  |  |
|--|--|
| Keynote symposium 1 (KS1: 08:00-10:00): Chair: <u>Luis de Lecea</u> , USA, Room: <u>Wallace Monument</u>   |  |
| KS1-1: <u>Tallie Z. Baram</u> , University of California at Irvine, CA, USA:<br>• <i>Plasticity of the CRH stress circuitry to early-life adversity</i>  |  |
| KS1-2: <u>Limei Zhang</u> , National Autonomous University of Mexico, Mexico<br>• <i>Placing neuropeptide signaling within glutamate/GABA contexts: Extrahypothalamic synapses of magnocellular vasopressin neurons and their connections to behavioral circuits</i> |  |
| KS1-3: <u>Duan Chen</u> , Norwegian University of Science and Technology, Norway<br>• <i>Peptides and the gut: the unfinished story of gastrin</i>   |  |
| Coffee and cookies break (10:00-10:30)   |  |
| Symposium 1: <i>ISN sponsored young investigator symposium: Oxytocin and Vasopressin: Circuits and Behavior</i><br>Chaired by <u>Vito Hernandez</u> , Mexico<br>10:30-12:30, Room: <u>Wallace</u>  | Symposium 2:<br>Critical Pathways for Peptide-based Drug Development: Recent Progress<br>Chaired by: <u>Esther Sabban</u> , USA<br>10:30-12:30, Room: <u>Erskine Finty</u>   |
| S1-1 <u>Lei Xiao</u> , Fudan University, China: <i>Morpho-electric properties and diversity of oxytocin neurons in mouse paraventricular nucleus of hypothalamus</i>   | S2-1 <u>Esther Sabban</u> , New York Medical College, USA: <i>Preclinical studies in a PTSD model with intranasal NPY in males and females</i>   |
| S1-2 <u>Quirin Krabichler</u> , Heidelberg University, Germany: <i>A novel transgenic arginine vasopressin (AVP)-IRES2-Cre rat line: Characterization, mapping of connectivity, and recording of neuronal activity</i>   | S2-2 <u>Youssef Anouar</u> , INSERM U1239 & Normandy University Rouen, France: <i>The antioxidant selenoprotein T mimetic, PSELT, exerts a potent neuroprotective effect in PD after intranasal administration.</i>            |
| S1-3 <u>Amelie Soumier</u> , Center National de la Recherche Scientifique, France: <i>3D mapping of oxytocin and vasopressin neuronal ontogenes in the mouse brain</i>   | S2-3 <u>Peter Holzer</u> , Otto Loewi Research Centre, Medical University of Graz, Austria: <i>NPY in gut-brain communication</i>  |
| S1-4: <u>Oscar R. Hernández-Pérez</u> , CIATEJ, Jalisco and UNAM, México. <i>Differential activation of arginine-vasopressin receptor subtypes in distinct amygdaloid subdivisions modulating emotional responses in the rat by arginine-vasopressin</i>             | S2-4: <u>Chun-Mei Zhao</u> , Department of Clinical and Molecular Medicine, Norwegian University of Science and Technology, Norway: <i>Repurposing peptide-based drugs for treatment of gastric cancer: a proof of concept</i> |
| S1-5 <u>Mario Zetter</u> , School of Medicine, National Autonomous University of Mexico: <i>Vasopressin acts as a synapse organizer in limbic regions by boosting PSD95 and GluA1 expression</i>   |  |

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### **ISN-sponsored young investigator symposium: Oxytocin and Vasopressin: Circuits and Behavior** (Symposium No.1, Tuesday, August 2<sup>nd</sup>, 2022) **Chair:** Vito Hernández

This symposium started with a brief statement by Dr. Vito Hernández to acknowledge the financial support received from the International Society for Neurochemistry for the organization of the Young Investigator symposium. Then Dr. Hernandez communicated the aims of the Conference Committee (ISN-CC) program that supports the organization of small conferences or symposia within meetings of other scientific societies that have a focus on neurochemical topics. Finally, an invitation to join the ISN, and the reasons to become a member were presented to the audience.

The **following slides were presented during the first five minutes of the symposium** to acknowledge support from the ISN to the symposium

**ISN sponsored young investigator symposium**

Oxytocin and Vasopressin: Circuits and Behavior  
Chaired by: Vito Hernandez (México)

**S1-1 Lei Xiao**  
Fudan University, Shanghai, China.  
Morpho-electric properties and diversity of oxytocin neurons in mouse paraventricular nucleus of hypothalamus

**S1-2 Quirin Krabichler**  
University of Heidelberg, Mannheim, Germany.  
A novel transgenic arginine vasopressin (AVP)-IRES2-Cre rat line: Characterization, mapping of connectivity, and recording of neuronal activity

**S1-3 Amelie Soumier**  
Center National de la Recherche Scientifique, France  
3D Mapping of Oxytocin and Vasopressin neuronal ontogenesis in the mouse brain

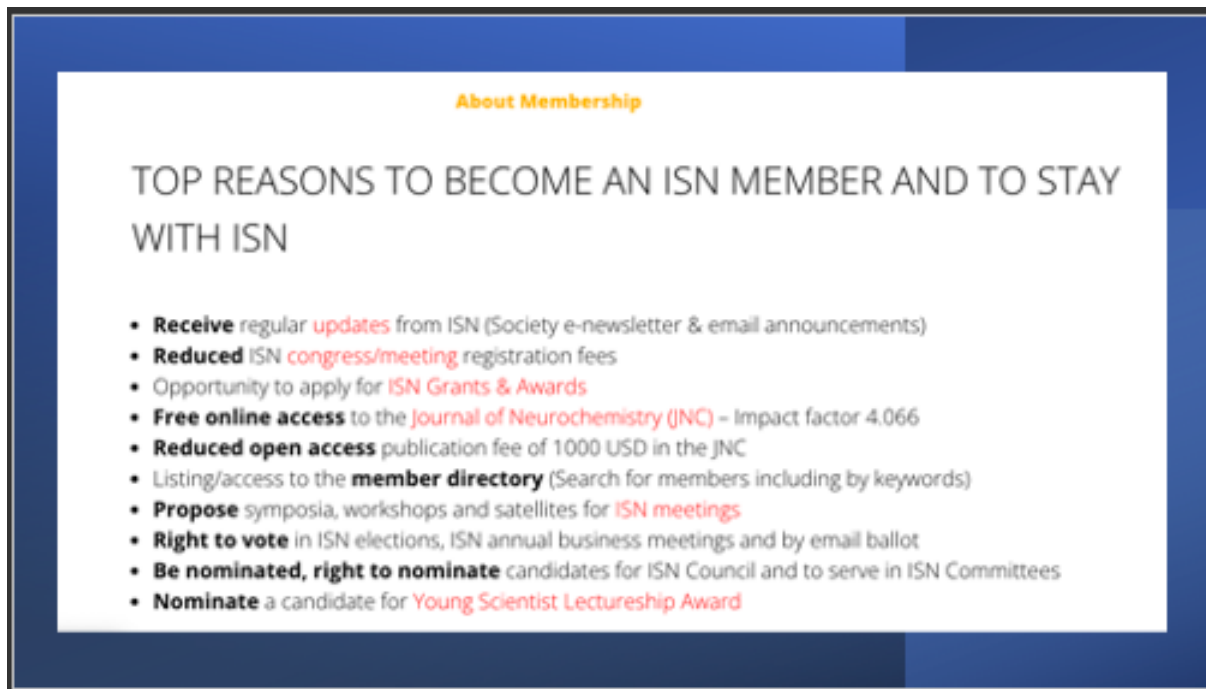
**S1-5 Oscar R. Hernández-Perez**  
Centro de Investigación y Asistencia en Tecnología y Diseño del Estado de Jalisco, A.C. and UNAM, México City, México  
Differential activation of arginine-vasopressin receptor subtypes in distinct amygdaloid subdivisions modulating emotional responses in the rat

**S1-5 Mario Zetter**  
National Autonomous University of Mexico, Mexico City, México.  
Vasopressin acts as a synapse organizer by boosting PSD95 and GluA1 expression

International  
Regulatory Peptide  
Society

ISN  
International Society  
for Neurochemistry

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**About Membership**

## TOP REASONS TO BECOME AN ISN MEMBER AND TO STAY WITH ISN

- **Receive** regular **updates** from ISN (Society e-newsletter & email announcements)
- **Reduced** ISN **congress/meeting** registration fees
- Opportunity to apply for **ISN Grants & Awards**
- **Free online access** to the **Journal of Neurochemistry (JNC)** – Impact factor 4.066
- **Reduced open access** publication fee of 1000 USD in the JNC
- Listing/access to the **member directory** (Search for members including by keywords)
- **Propose** symposia, workshops and satellites for **ISN meetings**
- **Right to vote** in ISN elections, ISN annual business meetings and by email ballot
- **Be nominated, right to nominate** candidates for ISN Council and to serve in ISN Committees
- **Nominate** a candidate for **Young Scientist Lectureship Award**

Vito Hernández, the recipient of the ISN-CC support for this symposium was suggested by the Chair of the program committee (Dr. Lee Eiden) to present his talk “*PACAP expression within glutamate or GABA circuits of the brain*” during the symposium # 8 while keeping him as the chair of the ISN-sponsored young investigator symposium. This was aimed to increase the visibility of the ISN by having two symposia in which there was specific mention to the ISN-CC support.



**PACAP coexpression in GABAergic or glutamatergic circuits and its relevance for behavioural adaptation**

Vito S. Hernández

Universidad Nacional Autónoma de México



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## ISN-supported Symposium highlights:

During this symposium the presenters shared their most recent discoveries on diverse and complementary aspects of the oxytocin and vasopressinergic brain circuits. Dr. Lei Xiao, used transgenic mice lines in which by electrophysiological recordings and reconstruction of the neurons, he was able to resolve some previously undescribed subpopulations of oxytocin parvocellular and magnocellular neurons in the PVN, some of the populations were activated specifically under some feeding conditions, his results highlighted the need to study in further detail the specific circuits and associated functions of these oxytocinergic sub-clusters. Dr Quirin Kravichler presented a novel transgenic tool with significant translational implications for the study of the vasopressinergic circuits. CRISPR-CAS was used to generate a Sprague-Dawley rat line in which an IRES2-CRE transgene was inserted in the UTR region of the AVP gene. Stereotaxic injections of CRE-dependent viral vectors allowed the exploration of differential axonal projection patterns of the paraventricular (PVN) and supraoptic (SON) neuronal populations. Multiple previously identified target-regions of these hypothalamic vasopressinergic neurons were described, and new previously undescribed target-regions were reported. The work of Amelie Soumier highlights the ontogenic development of the OT and AVP neurons with an emphasis on the temporal and spatial location of their peptide co-expression. Oscar Hernández-Perez using pharmacological, anatomical and behavioral approaches, described new findings on the participation of the V1a and V1b vasopressin receptors within the amygdala on social behavior. Demonstrating that when hydro-electrolytic equilibrium is compromised, the hypothalamic vasopressinergic system can serve as a hub, that links control of fluid homeostasis with the social component of allostatic adaptation. On the molecular mechanisms for the effects of vasopressin at their intracerebral targets, Mario Zetter showed that water deprivation in rats increase the expression of the postsynaptic proteins PSD95 and GluA1. The increased expression of these proteins, classically associated with excitatory synapses was recapitulated in vitro, when slices of regions targeted by AVP fibers were incubated with vasopressin. The involvement of AVP receptors was confirmed using V1a and V1b antagonists, these new results show that AVP is able to exert plastic changes in the excitatory synapses, on regions targeted by the hypothalamic AVP magnocellular neurons. Vito Hernández, the recipient of the ISN-CC support for this symposium was suggested by the Chair of the program committee (Dr. Lee Eiden) to present his talk *"PACAP expression within glutamate or GABA circuits of the brain"* during the symposium #8 while keeping him as the chair of the ISN-sponsored young investigator symposium. This was aimed to increase the visibility of the ISN by having two symposia in which there were specific mention to the ISN-CC support.

This ISN supported symposium was attended by more than 40 participants including consolidated scientists, junior investigators, graduate students, ***(at the end of the document is attached a list of all the participants of the meeting)***. At the end of each talk a round of questions that promoted interaction between the audience and the speakers ensued, however because of the time constraints the discussion continued in the coffee break and was appreciated by the young investigators of this symposium, as an excellent forum to communicate their

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findings and opening the possibility to discuss them with leading figures of the field, see opinions below:

- *"The conference was an excellent place to meet colleges and explore new tendencies and approaches to studying neuropeptides. The young investigator symposium resulted in a perfect opportunity to share my work and receive feedback from investigators, which motivates me to continue working hard."* Oscar Hernández-Perez (Speaker in the ISN-supported Young Investigator Symposium)
- *"The symposium was very well planned and conveyed young researchers covering important areas of neuropeptide research and showing the importance of new techniques for studying neuropeptide function in the brain, I felt very honoured to participate"* Mario Zetter (speaker in the ISN-supported Young Investigator symposium)
- *"This was an excellent symposium covering a very important and timely topic in the neuroendocrine field. The panel was very diverse and presented cutting edge science in this area. Very useful for trainees, junior and senior researchers."* Javier Stern (Principal Investigator, Georgia State University, attendee to the symposium)
- *"This symposium was very illustrative allowing young researchers to show new exciting ideas and very well organized by the chair"* (Apolonia Sales, predoctoral attendee to the symposium)
- *"This was a high quality symposium that gave the opportunity to young researchers to present the latest advances in neuroendocrinology. There was an international representation and a rich diversity of topics. It was useful to initiate discussions about current hypotheses and ongoing projects."* (Arthur Lefevre, UCSD postdoctoral researcher, attendee to the symposium).
- *"The RegPep24 was an event that incorporated most of Neuroendocrinology science with good lectures presenting even traditional to the most advanced techniques that encompass the peptides. Notwithstanding, the symposium allowed new researchers to present their works by entering them into this professional field."* (Tays A. Camilo , post-doctoral of Federal University of São Paulo, Brazil.)
- *"The ISN Young Investigator symposium covered high quality, diverse and broad interest scientific research topics related to regulatory peptides"* (André Mecawi, Principal Investigator, Federal University of São Paulo, Brazil)



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4. ISN support was acknowledged in the webpage and the proceedings of RegPep24



RegPep.org main website (www.regpep.org)



Proceedings of RegPep24

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### 5. ISN budget:

The funds granted by the ISN for the organization of this symposium were transferred directly to the International Regulatory Peptide Society (organizer of the meeting). Those funds were used to partially cover the registration, accommodation, and flight tickets of the participants.

#### Detailed budget used for each speaker

- 1) Each speaker registration Fee + accommodation was covered:  
740USD x 5 speakers = **3700 USD**
- 2) The flight tickets for the following participants were reimbursed
  - a. Vito Hernández: 900 USD
  - b. Mario Zetter: 850 USD
  - c. Oscar Hernandez-Perez: 2000 USD**TOTAL: 3750 USD**

Total cost for the ISN-Supported symposium: **7250 USD**

During the **General Assembly of the IRPS** the ISN was acknowledged and the support that was received was listed in the Acta. The IRPS GA acta can be found [in this link](#). Some screenshots are presented below:

| 2.Revenue for RegPep24                                |                     |                                   |
|---|---------------------|-----------------------------------|
| 2.1 Institution/academic organization                 |                     |                                   |
| Support from Chen Institute (Feb. 18, 2022)           | \$127,459.50        | \$6,372.98                        |
| Support from IBRO 80% (July 19, 2022)                 | \$195,979.20        | \$9,798.96                        |
| Support from JNE/BSN (July 21, 2022)                  | \$139,677.71        | \$6,983.89                        |
| Support from ISN 80% to ECR symposium (July 26, 2022) | \$101,926.43        | \$5,096.32                        |
| <b>Subtotal of 2.1</b>                                | <b>\$565,042.84</b> | <b>\$28,252.14</b>                |
| MXN   |                     | Grey numbers are estimated in USD |

- **From the IRPS acta:** Report of the income to RegPep24 from institutional sources with ISN received funds listed.



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## 3.2 RegPep24 expenditures

|  |                        |
|--|------------------------|
| Pre-conference logistics/LOC travel and food expenses (only partially supported) | \$900.00               |
| Printings and conference materials   | \$2,635.18             |
| RegPep24 cost at Stirling University Venues                                      | \$42,368.43 £33,314.69 |
| Music band   | \$1,195.74             |
| 1 Car & 1 coach rental   | \$1,368.75             |
| Six transcontinental roundtrip tickets for plenaries/Chen Writer/ISN ECRs        | \$8,554.47             |
| Conference dinner and Stirling castle visit                                      | \$8,618.88             |
| <b>Subtotal of "3.2"</b>   | <b>\$65,641.41</b>     |
| <b>Total expenditures ("3.1"+"3.2")</b>  | <b>\$71,532.71</b>     |

Grants awarded by the RegPep24 LOC to RegPep24 delegates (already included in the above expenditure amount):

- Conference fee waivers for 56 invited speakers - plenaries and symposium speakers: \$14,000 USD (56 x \$250 USD)
- ISN sponsored ECR intercontinental travel: \$3700 (3 ECRs)
- ISN sponsored ECRs conference fees and delegate packages: \$3700 (5 ECRs) ←
- RegPep24 LOC grant to ECRs Data blitz presenter \$5390 USD
- Airfares for plenaries and Chen Writer: \$3400 USD
- Chen Writer conference fee and accommodation: \$1040 USD

- **From the IRPS acta:** report for expenses of the IRPS for covering flight tickets to ISN-supported speakers (aprox. 3700 USD)

The rest of the money received by the IRPS was used to partially cover the registration fees and accommodation of the speakers, see the screenshot below that shows the cost of the conference registration and accommodation fees.

| <b>The Conference Fee includes:</b> <ul style="list-style-type: none"> <li>• Abstract submission</li> <li>• Printed book with program and proceedings of RegPep24</li> <li>• Access to all scientific sessions</li> <li>• Welcome reception-dinner</li> <li>• All lunches and coffee breaks during the meeting</li> <li>• Access code for video streaming of all the conference sessions during the meeting and for 3 months after the meeting</li> </ul> |   | <b>The Delegate Package includes:</b> <ul style="list-style-type: none"> <li>• Four days B&amp;B at the Stirling Court Hotel</li> <li>• Three lunches</li> <li>• Six coffee breaks</li> <li>• Welcome dinner</li> </ul> <p>Stirling Court Hotel has limited rooms reserved for RegPep24. It is highly recommended to book early through the RegPep24 Organising Committee paying the delegate package. The rooms are assigned on a first-come-first-serve basis.</p> |   |
|---|---|--|---|
| REGISTRATION FEE  | EARLY BIRD <sup>1</sup><br>JAN 10 - MAY 15, 2022          | REGULAR<br>MAY 16 - JULY 31, 2022  | ON SITE<br>AUGUST 1 - 5, 2022                             |
| Regular Members   | 250 USD: conference fee<br>+<br>490 USD: delegate package | 350 USD: conference fee<br>+<br>490 USD: delegate package  | 450 USD: conference fee<br>+<br>490 USD: delegate package |
| Nonmembers  | 400 USD: conference fee<br>+<br>490 USD: delegate package | 500 USD: conference fee<br>+<br>490 USD: delegate package  | 600 USD: conference fee<br>+<br>490 USD: delegate package |

From RegPep.org (registration and accommodation fees)

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**5. Photographs of the symposium and from RegPep:**



ISN YOUNG INVESTIGATOR SYMPOSIUM



ISN YOUNG INVESTIGATOR SYMPOSIUM

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COUNCIL MEETING



GENERAL ASSEMBLY



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GENERAL ASSEMBLY



SOCIAL MEDIA

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*RegPep24*  
*Group photo at River House, Stirling, Scotland, UK*  
*2022.08.04*



GROUP PICTURE

# ISN-REPORT ON THE SUPPORTED SYMPOSIUM AT REGPEP24 STIRLING SCOTLAND, AUGUST 2022

## Attachment: REGPEP 24, LIST OF PATICIPANTS

| RegPep24 Delegates |                 |            |                 |   |  |  |  |
|--------------------|-----------------|------------|-----------------|---|--|--|--|
| Surname            | Name            | Country    | Gender          |   |  |  |  |
| 1                  | Abu Samah       | Norshahida | Malaysia        | F |  |  |  |
| 2                  | Aguilera        | Greti      | USA             | F |  |  |  |
| 3                  | Anantharam      | Arun       | USA             | M |  |  |  |
| 4                  | Anouar          | Youssef    | France          | M |  |  |  |
| 5                  | Bakalar         | Dana       | USA             | F |  |  |  |
| 6                  | Baram           | Tallie Z   | USA             | F |  |  |  |
| 7                  | Barez Lopez     | Soledad    | UK              | F |  |  |  |
| 8                  | Barrio          | Rafael     | Mexico          | M |  |  |  |
| 9                  | Barrio          | Hernán     | UK              | M |  |  |  |
| 10                 | Camilo          | Tays       | Brazil          | F |  |  |  |
| 11                 | Chen            | Duan       | Norway          | M |  |  |  |
| 12                 | Chen            | Xiaoke     | USA             | M |  |  |  |
| 13                 | Conway-Campbell | Becky      | UK              | F |  |  |  |
| 14                 | Cunningham      | Rebecca    | USA             | F |  |  |  |
| 15                 | Cunningham      | Thomas     | USA             | M |  |  |  |
| 16                 | Curas-Collazo   | Margarita  | USA             | F |  |  |  |
| 17                 | Dabrowska       | Joanna     | USA             | F |  |  |  |
| 18                 | de Kloet        | Annette D. | USA             | F |  |  |  |
| 19                 | De Lecea        | Luis       | USA             | M |  |  |  |
| 20                 | de Vries        | Geert      | USA             | M |  |  |  |
| 21                 | Dobolyi         | Arpad      | Hungary         | M |  |  |  |
| 22                 | Dudchenko       | Paul       | UK              | M |  |  |  |
| 23                 | Egry            | Carlos     | Mexico          | M |  |  |  |
| 24                 | Eiden           | Lee E.     | USA             | M |  |  |  |
| 25                 | Elsamad         | Ghadir     | UK              | F |  |  |  |
| 26                 | Ferraguti       | Francesco  | Austria         | M |  |  |  |
| 27                 | Fink            | George     | Australia       | M |  |  |  |
| 28                 | Furness         | John       | Australia       | M |  |  |  |
| 29                 | Furness         | Sebastian  | Australia       | M |  |  |  |
| 30                 | Gillard         | Ben        | UK              | M |  |  |  |
| 31                 | Goadsby         | Peter      | UK              | M |  |  |  |
| 32                 | González-Hemá   | Abimael    | Mexico          | M |  |  |  |
| 33                 | Goosens         | Ki         | USA             | F |  |  |  |
| 34                 | Grattan         | David      | New Zealand     | M |  |  |  |
| 35                 | Gray            | Sarah      | Canada          | F |  |  |  |
| 36                 | Gundlach        | Andrew     | Australia       | M |  |  |  |
| 37                 | Habart          | Marie      | France          | F |  |  |  |
| 38                 | Hartwood        | Jim        | USA             | M |  |  |  |
| 39                 | Hedden          | Julius     | USA             | M |  |  |  |
| 40                 | Hernández       | Vito S.    | Mexico          | M |  |  |  |
| 41                 | Hernández-Pérez | Oscar      | Mexico          | M |  |  |  |
| 42                 | Holzer          | Peter      | Austria         | M |  |  |  |
| 43                 | Jiang           | Sunny Z.   | USA             | F |  |  |  |
| 44                 | Joels           | Marian     | The Netherlands | F |  |  |  |
| 45                 | Jones           | Jeff       | USA             | M |  |  |  |
| 46                 | Kalsbeek        | Thea       | The Netherlands | F |  |  |  |
| 47                 | Kalsbeek        | Andries    | The Netherlands | M |  |  |  |
| 48                 | Kozlova         | Elena      | USA             | F |  |  |  |
| 49                 | Krabichler      | Quirin     | Germany         | M |  |  |  |
| 50                 | Krisztof        | László     | Hungary         | M |  |  |  |
| 51                 | Lefevre         | Arthur     | USA             | M |  |  |  |
| 52                 | Levkowitz       | Gil        | Israel          | M |  |  |  |
| 53                 | Leyden          | Genevieve  | UK              | F |  |  |  |
| 54                 | Limón           | Adrián     | Mexico          | M |  |  |  |
| 55                 | Lin             | Panjiao    | UK              | F |  |  |  |
| 56                 | MacLeod         | Malcolm    | UK              | M |  |  |  |
| 57                 | Mecawi          | Andre      | Brazil          | M |  |  |  |
| 58                 | Melzer          | Sarah      | Austria         | F |  |  |  |
| 59                 | Mercer          | Julian     | UK              | M |  |  |  |
| 60                 | Miller          | Robert     | South Africa    | M |  |  |  |
| 61                 | Morales         | Marisela   | USA             | F |  |  |  |
| 62                 | Murphy          | David      | UK              | M |  |  |  |
| 63                 | Neumann         | Inga       | Germany         | F |  |  |  |
| 64                 | Paul            | Matthew    | USA             | M |  |  |  |
| 65                 | Petrulis        | Aras       | USA             | M |  |  |  |
| 66                 | Pittman         | Quentin    | Canada          | M |  |  |  |
| 67                 | Quintana-Steph  | Graciela   | Mexico          | F |  |  |  |
| 68                 | Quintana-Steph  | Andres     | Mexico          | M |  |  |  |
| 69                 | Rigney          | Nicole     | USA             | F |  |  |  |
| 70                 | Ringuet         | Sophie     | Australia       | F |  |  |  |
| 71                 | Ringuet         | Mitchell   | Australia       | M |  |  |  |
| 72                 | Rorsman         | Patrick    | UK              | M |  |  |  |
| 73                 | Sabban          | Esther     | USA             | F |  |  |  |
| 74                 | Sales           | Apolonia   | Mexico          | F |  |  |  |
| 75                 | Sexton          | Patrick    | Australia       | M |  |  |  |
| 76                 | Soumier         | Amelie     | France          | F |  |  |  |
| 77                 | Stern           | Javier     | USA             | M |  |  |  |
| 78                 | Teruyama        | Ryiochi    | USA             | M |  |  |  |
| 79                 | Veenema         | Alexa      | USA             | F |  |  |  |
| 80                 | Viney           | Tim        | UK              | M |  |  |  |
| 81                 | Watts           | Alan       | UK              | M |  |  |  |
| 82                 | Wisden          | William    | UK              | M |  |  |  |
| 83                 | Xiao            | Lei        | China           | M |  |  |  |
| 84                 | Xu              | Wenjin     | USA             | F |  |  |  |
| 85                 | Yi              | Chun-Xia   | The Netherlands | F |  |  |  |
| 86                 | Yitzchak        | Sabban     | USA             | M |  |  |  |
| 87                 | Yoichi          | Ueta       | Japan           | M |  |  |  |
| 88                 | Zetter-Salmon   | Mario A.   | Mexico          | M |  |  |  |
| 89                 | Zhang           | MeiMei     | Canada          | F |  |  |  |
| 90                 | Zhang           | Limei      | Mexico          | F |  |  |  |
| 91                 | Zhao            | Chun-mei   | Norway          | F |  |  |  |