



IUBMB NEWS

Issue 8

December 2019



President's Message

Time flies! In the blink of an eye, we are already near the end of 2019. I would like to take this opportunity to wish everyone a Merry Christmas and Happy New Year of 2020.

In the year of 2019, IUBMB continues to support many activities in promoting biochemistry and molecular biology around the world. Several Focused and Special Meetings have been held in Lisbon/Portugal, Warsaw/Poland, Lima/Peru, and Marrakech/Morocco. In addition, the 27th FAOBMB Conference was successfully held in Kuala Lumpur, Malaysia. All those meetings and conference have received funding support from IUBMB. One can see that the vibrant activities spread from Europe, Africa, South America to Southeast Asia. We are pleased to announce that those forward-looking focused meetings will continue in 2020: Neurodegenerative diseases in Taipei Taiwan, Crosstalk between nucleus and mitochondria in human disease in Seville, Spain, and Biochemistry & molecular biology of RNA viruses in Faridabad, India. I encourage you to attend those exciting meetings.

It should be pointed out that we initiated an experiment by encouraging the organizers to put together a Special Issue for each Focused meeting with additional funding support to the meeting. If approved, those Special Issues will be published in relevant IUBMB journals such IUBMB Life, BioFactors, etc. Those focused and special meetings are just part of benefits that our Adhering Body member societies are entitled to. Some of the past members (like The Netherlands, Austria) which have not renewed their memberships will miss the opportunity to organize such meetings.

As mentioned in my previous messages, education in molecular biosciences is an important mission for IUBMB. This goal was set up by IUBMB EC previously. We publish a unique journal devoted to education of biochemistry and molecular biology: Biochemistry and Molecular biology Education. This journal publishes papers relevant for BMB teaching which are quite useful for those seeking innovative and novel teaching platforms. I suppose it is an excellent place to advertise textbooks, meeting announcements, etc. We have been supporting various Education Workshops held in different regional BMB meetings like FEBS Congress and FAOBMB Conferences/ Congress. The FEBS Congress in Jerusalem in 2017, Prague in 2018 and Krakow and Kuala Lumpur in 2019 all have education sessions to emphasize the importance of education. We just held a symposium dedicated for education in Manila in November, 2019. All those education sessions/symposia invited prominent scholars who have been engaging in biochemistry and molecular biology teaching for many years and they have shared their precious experience (like biochemistry singing contest) with the attendees. Here I would also like to point out that Research Integrity is an aspect in education which we intend to stress in many IUBMB activities.

A number of new initiatives in education are being planned. We have received generous funding support from Tang Prize Foundation (www.tang-prize.org, Taiwan) for education purposes for nine years. We just signed the MOU between TBF and IUBMB for the next three years. We are considering to have a new special symposium supported by TPF fund in which the symposium will be organized by junior scientists including postdocs in a way similar to ENABLE meetings held in

In This Issue

- President's Message
- IUBMB Tang Education Fellowships
- Welcome Dr Lim Yang Mooi, IUBMB Ambassador FAOBMB
- 27th FAOBMB & 44th MSBMB Conference & IUBMB-FAOBMB Young Scientist Program
- IUBMB Education conference & 46th PSBMB annual convention
- Congratulations to William Whelan upon his 95th birthday
- Congratulations to PROLAB Awardees 2019
- Congratulations to IUBMB Wood-Whelan Fellowship Awardees and IUBMB Mid-Career Fellowship Awardees 2019
- Congratulations to IUBMB Jubilee Lectures and IUBMB Lecture recipients
- Wiley-IUBMB Life Young Investigator Prize 2019
- Wiley-Biofactors Young Investigator Prize 2019
- IUBMB Journal Highlights
- Past & upcoming meetings
- IUBMB Programs and Benefits of Membership
- Executive Committee

the FEBS region. Travel fellowships have been provided for young scientists to attend the Manila Education Symposium. I would like to thank Professor Janet Macaulay for organizing those education-related events.

I should add that TPF also provide speaker support through the participation of TPF laureates in various IUBMB-associated meetings. Dr. Feng Zhang from MIT was invited as a TPF Award Lecturer in the 2017 FEBS Congress in Jerusalem and Dr. Tasuku Honjo from Kyoto University was invited in the 2018 IUBMB Congress in Seoul. Both lectures were extremely successful attracting over 2000 attendees in each event. I should add that Dr. Honjo received this year's Nobel Prize in Physiology and Medicine. Congratulations to Dr. Honjo. More notably, Experimental Biology Conference in US has held the Tang Prize Award Lectures since 2015, with the past awardees of Jim Allison in 2015, Tasuku Honjo in 2016, Feng Zhang in 2018, Brian Druker in 2019 and next awardee Tony Hunter in 2020.

IUBMB continues its close collaboration with its regional federations. IUBMB and FEBS signed an MOU regarding the mutual support in holding respective congresses, such as support for the named lecturers like IUBMB Lecture in

FEBS Congress and FEBS Lecture in IUBMB Congress.

Finally, I am looking into the issue of our relationship with the International Council for Sciences (ICSU). IUBMB withdrew from ICSU several years ago due to some accidental reasons. ICSU was merged with The International Social Science Council (ISSC) into the new International Science Council (ISC) which was approved in their council meeting held in Taipei last year. This may be an opportune time for IUBMB to consider rejoin ISC. We are also collaborating with new global partner such as UNESCO on the issues of bioeconomy or plastics in the sustainable environment. We hope IUBMB can use our leadership in the life science areas and actively exert our influence and make IUBMB more valuable to our Adhering Body members and our society. I urge you to browse IUBMB website (<https://iubmb.org>) where many detailed information about IUBMB can be found. Last but not the least, I sincerely seek advice from all of you and look forward to working with our IUBMB friends!

Andrew H.J. Wang, PhD
President, IUBMB

Follow Us on Facebook, Instagram and Twitter:

https://www.facebook.com/iubmb/?modal=admin_todo_tour

<https://www.instagram.com/theiubmb/>

<https://twitter.com/iubmb>

NEW - IUBMB TANG EDUCATION FELLOWSHIPS

The IUBMB Tang Education Fellowships will provide opportunities for the development of both biochemistry and molecular biology educational programs and educators with the specific aims of:

- increasing expertise and capability in biochemistry and molecular biology education
- supporting engaged educators
- promoting change/innovation in approaches to education
- improving student learning experiences, outcomes and engagement with biochemistry and molecular biology
- building an evidence base on which to make future recommendations on biochemistry and molecular biology education

- supporting biochemistry and molecular biology education in developing countries.

The fellowships can be used for:

- Universities/departments to apply for a nominated experienced biochemistry and molecular biology educator to visit their institution for a specific educational outcome OR
- Educators to apply to visit institutions to learn/develop education practice and methodologies for a specific educational outcome.

For further information on our new IUBMB Tang Fellowships please visit the IUBMB Web site at

<https://iubmb.org/guidelines-statutes/guidelines/tang-education-fellowships/>

WELCOME PROFESSOR TS. DR. LIM YANG MOOI, IUBMB AMBASSADOR FOR FEDERATION OF ASIAN AND OCEANIC BIOCHEMISTS AND MOLECULAR BIOLOGISTS

Professor Lim is a Professor of Biochemistry in the Faculty of Medicine and Health Sciences, Universiti Tunku Abdul Rahman. She earned her bachelor's degree in biotechnology and Doctor of Philosophy in Animal Biotechnology from Universiti Putra Malaysia in 1997 and 2001, respectively. Her research interests are in the field of phytochemistry, cancer chemoprevention, herbal medicine and syndrome differentiation study in Chinese Medicine. Thus far, she has received numerous research grants, research awards, travel grants and fellowships nationally and internationally.



27th FAOBMB & 44th MSBMB Conference with a Special IUBMB supported Symposia on 'Mosquito-borne illnesses'



Yang Mooi Lim and Anthony Ho Siong Hock report on the 27th FAOBMB & 44th MSBMB Conference with a Special IUBMB supported Symposia on 'Mosquito-borne illnesses'

The 27th FAOBMB & 44th MSBMB Conference held from 19-22nd August 2019 was a special event for the Malaysian Society for Biochemistry and Molecular Biology (MSBMB) as the last time an FAOBMB event was organised in Kuala Lumpur was back in 1998. This conference was made more meaningful as it was supported by the IUBMB to mark the occasion of Malaysia becoming an adhering body to the Union. Thus, a special IUBMB Symposia on 'Mosquito-borne illnesses' was organised conjointly with the overall conference theme of 'Biomolecules: Networks & Systems'.

In total, the 4 day conference featured 5 named, 6 plenary and 38 invited lectures with 33 regular oral, 39 rapid oral and 114 posters organised within 18 tracks.

The Keynote address was delivered by John Mackenzie, a Mahathir Science Award Laureate, who described some of the factors driving emergence and spread of zoonotic and vector-borne virus diseases, and the importance of the One Health concept in their response and control with examples of Nipah, West Nile, SARS and H5N1 influenza virus. Ji Soo Kim, the recipient of the FAOBMB Research Excellence Award, summarised his work developing nuclease-digested whole genome sequencing (Digenome-seq) to profile genome-wide specificities of Cas9 nucleases and Cas9-fused deaminases in an unbiased manner which allowed the comprehensive identification of even off target site mutations. The FEBS-sponsored lecture was given by Dominique Soldati-Favre who described the use of computational models in concert with CRISPR-Cas9 screens of *Toxoplasma gondii* metabolic genes to understand how this parasite interacts with its host and modulates its metabolism when switching from acute to chronic infection. Xiaolun Yu who received the FAOBMB Education Award enthusiastically shared her vision to inspire students curiosity using a variety of connected tools that promotes the process of student-centered learning-by-doing which she described as an impactful teaching strategy for the future. Sheila Nathan gave the inaugural MSBMB President's Award Lecture describing her long-term studies of infections by *Burkholderia* bacteria and identification of the bacterial effectors, which switch off the host inflammatory response by targeting and degrading host transcription factors that drive an inflammatory response.

The Plenary speakers Balbir Singh, Patrick Tan, Madan Babu, Leann Tilley, Noboru Mizushima and Brad Nelson spoke on areas consistent with the conference theme and having particular significance to the Asia-Pacific region. A complete list of all the abstracts are available on the conference webpage at www.faoymbkl2019.com

Additionally, forum sessions on Education, Women in Science and Career Development for young scientists were organised in partnership with the Academy of Sciences Malaysia, Organisation for Women in Science-Malaysia Chapter and the ASEAN Young Scientists Network.



	Named Lecture	Speaker	Title
1	MAHATHIR SCIENCE AWARD LECTURE	John S. Mackenzie <i>Curtin University, Australia</i>	One Health: Breaking down the professional silos and responding to emerging zoonotic and mosquito-borne illnesses
2	FEBS LECTURE	Dominique Soldati-Favre <i>University of Geneva, Switzerland</i>	Functional and computational genomics reveal unprecedented versatility in stage-specific <i>Toxoplasma gondii</i> metabolism
3	FAOBMB AWARD FOR RESEARCH EXCELLENCE LECTURE	Jin Soo Kim <i>Center for Genome Engineering, Institute for Basic Sciences, South Korea</i>	CRISPR genome editing in plants, animals and human cells
4	FAOBMB EDUCATION AWARD LECTURE	Xiaoyun Lu <i>Xi'an Jiaotong University, China</i>	Teaching now, facing the future
5	MSBMB PRESIDENT'S - TAN SRI DATO' KONG HON KONG AWARD	Sheila Nathan <i>Universiti Kebangsaan Malaysia, Malaysia</i>	Resolving <i>B. pseudomallei</i> pathogenesis from a biochemistry - microbiology perspective

	Plenary Lecture	Title
1	Balbir Singh <i>Faculty of Medicine and Health Sciences, UNIMAS, Sarawak Malaysia</i>	<i>Plasmodium Knowlesi</i> : Past, Present and Future
2	Patrick Tan <i>Singhealth Duke-NUS Institute of Precision Medicine (PRISM) DUKE-NUS Medical School, Singapore</i>	Genomic and Epigenomic Profiles of Asian Endemic Malignancies
3	M Madan Babu <i>MRC Laboratory of Molecular Biology</i> <i>Francis Crick Avenue, Cambridge Biomedical Campus</i> <i>Cambridge CB2 0QH, UK</i>	Understanding Variation in the GPCR Signalling System
4	Leann Tilley <i>Department of Biochemistry and Molecular Biology, Bio21 Institute, The University of Melbourne, Australia</i>	New Technologies that Provide Insights into Malaria Parasite Virulence and Antimalarial Drug Design
5	Noboru Mizushima <i>Department of Biochemistry and Molecular Biology Graduate School of Medicine, The University of Tokyo, Tokyo, Japan</i>	Physiological Roles and Molecular Mechanisms of Autophagy
6	Brad Nelson <i>Co-Director, Immunotherapy Program</i> <i>BC Cancer, Victoria BC, Canada</i>	Deciphering and Reengineering the Immune Response to Cancer

More than 300 participants from 35 countries attended the conference and joined in the festivities of the Welcome Reception, Speakers appreciation dinner and the excellent trade exhibition made possible with the support of commercial partners like Elsevier (Diamond partner) amongst others. As Berjaya Hotel is located in the heart of the capital city, attendees could explore a range of food delights

and shopping choices all within walking distance. In short, there was plenty to do after each day's scientific programme. Many attendees also extended their stay to join excursions out of the city to visit places like Malacca, Penang and even as far as East Malaysia.







**27th FAOBMB & 44th MSBMB Conference
with an IUBMB Special Symposia
19th – 22nd August 2019
Berjaya Times Square Hotel, Kuala Lumpur, Malaysia**

Members of the IUBMB Executive with Dr Lim Yang Mooi and Dr Anthony (Tony) Ho Siong Hock

The IUBMB-FAOBMB Young Scientist Program

The IUBMB-FAOBMB Young Scientist Program was held in conjunction with the 27th FAOBMB and the 44th Annual MSBMB Conference in Taylor's University Lakeside Campus from 15-18 August 2019. The YSP event was attended by 36 young early career scientists from five different regions including Asia, Oceania, America, Africa and Europe. The event also included 18 YSP-observers. The YSP event began with an evening reception followed by 2 invited lectures presented by Prof Dr Paul Gleeson from the University of Melbourne on the role of Golgi apparatus as a cell sensor and Prof Carmay Lim from the Institute of Biomedical Science, Academia Sinica, Taiwan on the importance of metal ions in brain signaling.

The YSP program featured presentations ranging from proteomics, molecular biology, plant biochemistry to cancer biology, structural biology and immunology.

YSP participants were able to learn about each other's projects in detail through interactive sessions of questions and answers, hopefully leading to enduring collaborations. The program also included a half-day tour to the Malaysia Genome Institute (MGI), a national core research facility. The YSP delegates got the chance to see the state-of-the-art DNA sequencer and cutting edge protein characterization including X-ray crystallography, NMR and high-end mass spectrometry. The tour ended with an experience at the stingless bee (closely related to the common honey bee but have highly reduced stingers) farm where were able to try the distinctive fresh sour honey unique to this species. The YSP ended with a social program on the last day with a Kuala Lumpur City Tour showcasing Malaysia's diverse and inclusive culture. The tour visited the famous Petronas Twin Towers, Batu Caves, Chinatown and many more. Delegates were also able to experience a Malaysian cultural dance over lunch during the tour.

Here are some short testimonials from the YSP delegates:

"First of all, I am really thankful and appreciate the chance given for me to participate in the YSP 2019 in Taylor's University. In this 4-days event, I have enjoyed the diverse area of researches presented by all the YSP awardees from all over the world. The friendships we built is the best part of this YSP program. We present and discuss sciences in the meeting, but we also enjoyed each other's companion and laughter. I believe the friendships and memories in this YSP 2019 will last long and useful for our career and future collaborations.

In addition, YSP gave me a great platform to obtain information regarding fellowship, job opportunities, and working cultures at other countries. The information is very helpful to prepare myself for establishing my career in the near future. Also, I always enjoy and like to communicate with people from different field of research and cultures, they never failed to bring me a different perspective.

I really amazed by the high standard of organizing and communication skills that you and your team have demonstrated. Thank you for the wonderful memories." *Adrian Chek, Japan*

"First, I want to thank you all for organizing such a wonderful YSP programme and a conference in Malaysia. I gained a lot of knowledge by listening to other YSPs who presented their work in numerous fields although some are not directly related to what I do. In addition to the knowledge gained, you provided such an awesome atmosphere for building friendships and close associations among us. The facilities provided were excellent and meals were delicious. I enjoyed every moment that I spent during the program and I very much value the large number of new friends that I befriended. Thank you again for giving us this opportunity." *Ruwani Hewawasam, Sri Lanka*

"I would sincerely like to thank you once again for giving me opportunity to be a part of such an incredible scientific gathering!!! I must say that I had never been to better organized conference where you paid so much attention to every single detail and all that with a big and sincere smile! I felt amazing during the whole time of the conference. Scientific part was so well put and discussed. The talks were really interesting and helpful, even when the topic was not my specific area of interest. The accommodation and the place chosen for the conference were just amazing! And I really appreciate the effort of the organizers to show us the city and domestic cuisine, it really helped us to get to know Malaysian life style and tradition. Thank you so much for everything it was unbelievable experience that I would guard for life." *Sanja Kovačević, Serbia*

"I got lots of experiences, nice friends, especially a huge inspiration for my PhD as well as my life. I'm really grateful for giving me a big opportunity to join the YSP and for organizing this wonderful and heart-warming program." *Pinnapat Pinsorn, Thailand*



YOUNG SCIENTIST PROGRAM 2019
TAYLOR'S UNIVERSITY LAKESIDE CAMPUS





IUBMB 2019 PHILIPPINES**IUBMB EDUCATION CONFERENCE 2019 & 46th PSBMB ANNUAL CONVENTION**

On November 13-15, 2019 in Manila, Philippines the very successful 2019 IUBMB/PSBMB Education conference, Harnessing Interdisciplinary Education in Biochemistry and Molecular Biology was held. The conference consisted of keynote and plenary presentations and parallel sessions with short talks and interactive round table discussions. Posters were presented on education and science and Dr Jessica Gibbons from Monash University Australia won the Best Education Poster Award. Speakers and attendees came from 22 countries and there were over 400 attendees. 20 of the attendees were supported by IUBMB Tang Travel Bursaries. The presentations generated much discussion and many new colleagues, friends and collaborations have been made. The IUBMB journal, Biochemistry and Molecular Biology Education, will publish a special section on the conference in 2020.

IUBMB EDUCATION CONFERENCE
PHILIPPINES

IUBMB Education Conference 2019
International Union of Biochemistry and Molecular Biology

46th PSBMB Annual Convention
Philippine Society of Biochemistry and Molecular Biology

**HARNESSING INTERDISCIPLINARY EDUCATION IN
BIOCHEMISTRY AND MOLECULAR BIOLOGY**

NOVEMBER 13-15, 2019
THE MANILA HOTEL
MANILA CITY, PHILIPPINES

FOR MORE INFORMATION, VISIT OR CONTACT US:
www.psbmb.org/iubmb2019ph iubmb2019ph@gmail.com



Prof Gracia Fe B. Yu, Prof Andrew Wang, Prof Janet Macaulay, Dr William G. Padolina, Prof Francisco M. Heralde III

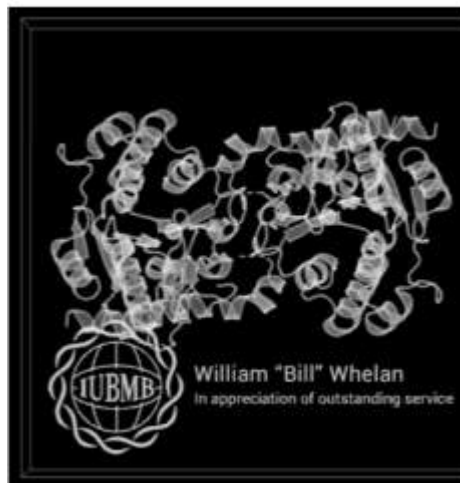
William “Bill” J. Whelan’s 95th birthday celebration

Students and friends of Bill Whelan celebrated his 95th birthday and retirement on November 14 at the Biltmore Hotel in Miami, Florida. Bill served as the president of the International Union of Biochemistry and Molecular Biology (IUBMB), and continues to serve as co-editor of the organization’s journal, *IUBMB Life*.

“Bill founded our journal and created training fellowships for students around the world,” said Dr. Newton. She and her colleague, James Davie, Ph.D., IUBMB general secretary and professor of biochemistry and medical genetics at the University of Manitoba, presented Dr. Whelan with a birthday gift: an engraving of the glycogenin molecule on a Plexiglas cube (see below).



Dr. William (Bill) Whelan with his wife, Alina





Dr. Alexandra Newton and Dr. Jim Davie

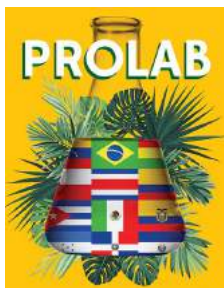


Dr. Angelo Azzi



Dr. William (Bill) Whelan and guests

Congratulations to the 2019 PROLAB recipients



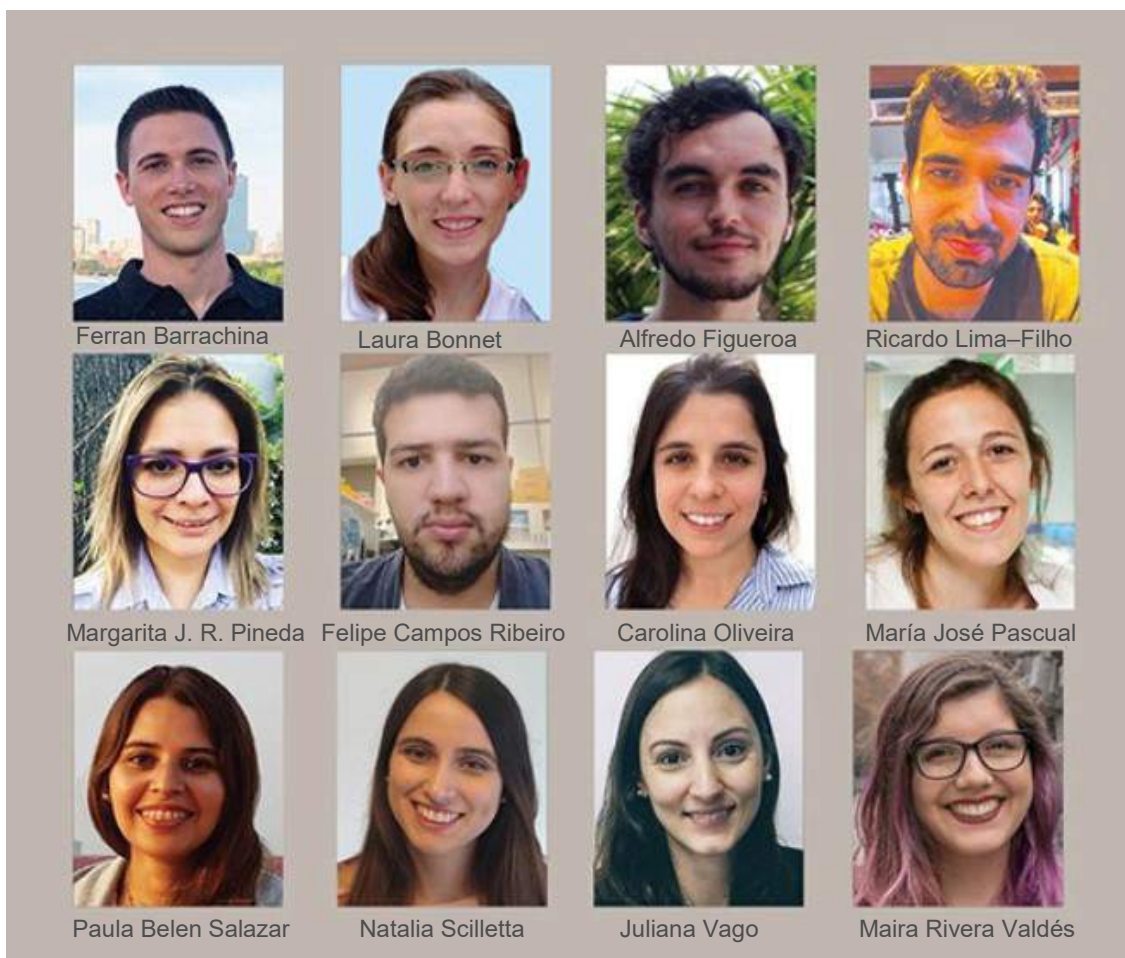
PABMB/ASBMB Promoting Research Opportunities for Latin American Biochemists (PROLAB)

The long-term objective of this program is to foster cooperation between the Pan-American Association for Biochemistry and Molecular Biology (PABMB), the International Union of Biochemistry and Molecular Biology (IUBMB) and the American Society for Biochemistry and

Molecular Biology (ASBMB) that would benefit their members, trainees and science.

Congratulations to the 12 young scientists who were awarded the 2019 PROLAB awards. For further information about the awardees please visit

<http://www.asbmb.org/asbmbtoday/201910/News/PROLAB/?terms=PROLAB%20recipients>



Congratulations to the 2019 (October) IUBMB Wood-Whelan Fellowship Awardees

The Wood-Whelan Research Fellowships are designed to support young biochemists and molecular biologists, from countries that are full or associate members of IUBMB who need to travel to other laboratories in the IUBMB region for the purpose of carrying out experiments that require special techniques or for other forms of scientific collaboration or advanced training.

For further information about the upcoming competitions, please visit:

<https://iubmb.org/guidelines-statutes/guidelines/wood-whelan-research-fellowships/>

Congratulations Wood Whelan Fellows



Virginia Actis
Argentina



Carlos Leandro Ferites
Argentina



Fátima Ferragut
Argentina



Lisset Chao Garcia
Cuba



Nadia Belén Olivero
Argentina



Maria Laura Rojas
Argentina



Maria Clara Selles
Brazil



Daria Vetoshkina
Russia



Federico Fuchs Wightman
Argentina



Congratulations to the 2019 (October) IUBMB Mid-Career Research Fellowship Awardees

The Mid-Career Research Fellowships are designed to support young biochemists and molecular biologists, from countries that are full or associate members of IUBMB who need to travel to other laboratories in the IUBMB region for the purpose of learning new state-of-the-art techniques or for other forms of scientific collaboration or advanced training.

For further information about the upcoming competitions, please visit:

<https://iubmb.org/guidelines-statutes/guidelines/iubmb-mid-career-research-fellowships/>



Saeed Mohammadi
Iran



César Antonio
Ramírez Sarmiento
Chile

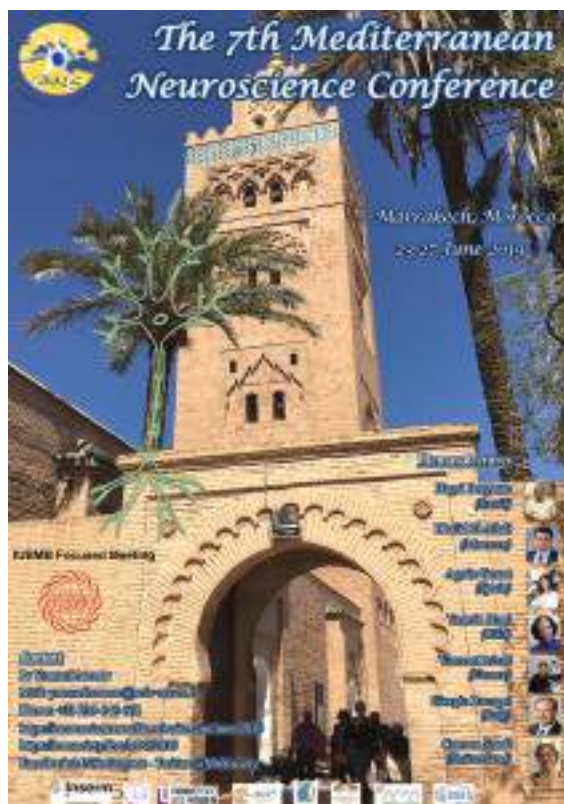


Franz Villarroel Espindola
Chile

2019 IUBMB Focused Meetings

IUBMB supported three Focused meetings this year.

- **The 7th Mediterranean Neuroscience Conference** held in Marrakech, Morocco (June 23 to 27)
- **Inhibitors of Protein Kinases. Kinase Inhibitors in Target Biology and Disease** was held in Warsaw, Poland (Sept 14 to 18)
- **Tissue Homeostasis in Health and Disease – The 2019 Champalimaud Symposium** held in Lisbon Portugal (Oct 8 to 10)



IPK2019

10th Inhibitors of Protein Kinases Conference

IUBMB Focused Meeting

„Challenges in Molecular Biology, Biophysics, and Biomedicine“

14th-19th of September, 2019, Warsaw, Poland



IPK2019



UNIVERSITY OF WARSAW

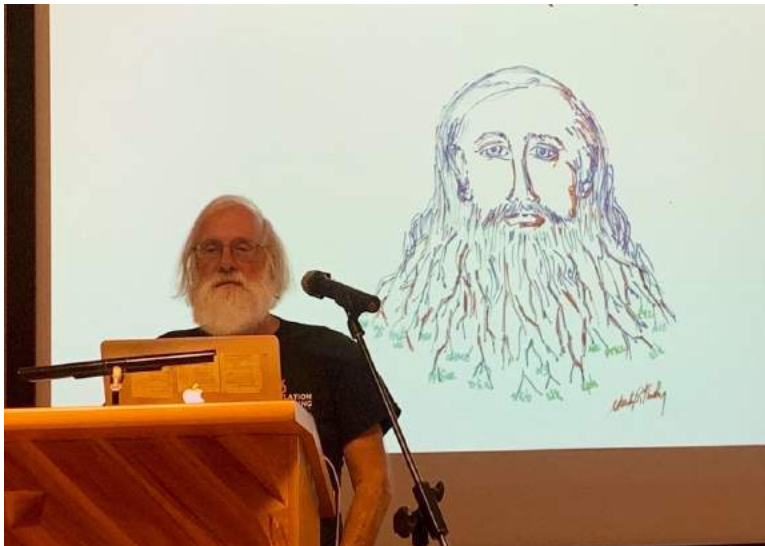
FACULTY OF PHYSICS
UNIVERSITY OF WARSAW



The first IPK Conference, which was supported by IUBMB, was in held in 1998.



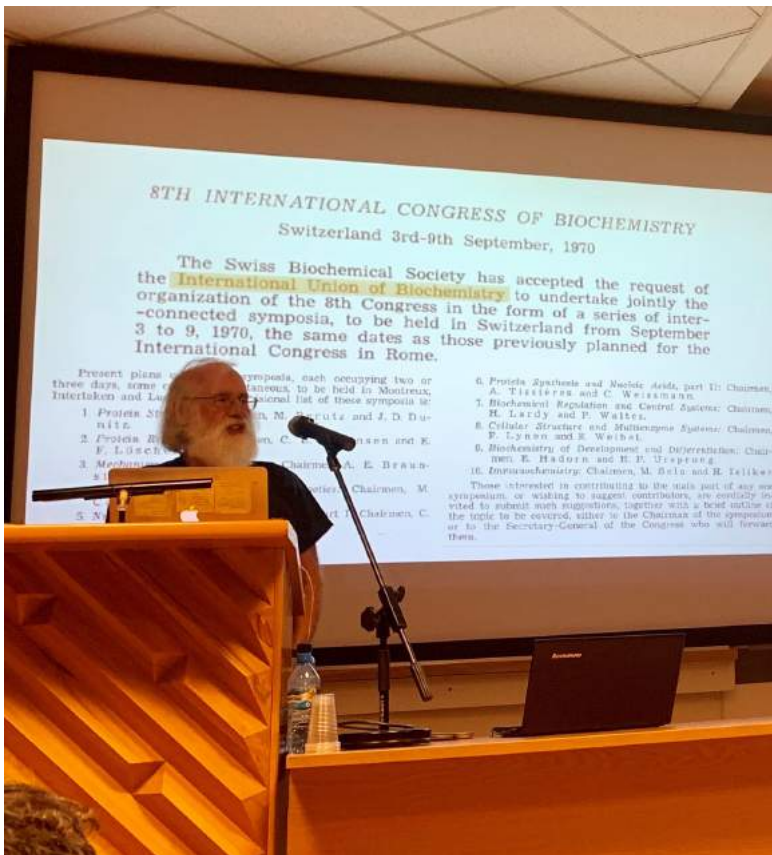
Congratulations to Dr Tony Hunter as the recipient of the IUBMB Jubilee Lectureship



Dr Tony Hunter



Dr Tony Hunter & Dr Jim Davie



Congratulations to Dr Xiaowei Zhuang as the recipient of the IUBMB Jubilee Lectureship

Dr Xiaowei Zhuang, Harvard University, USA, gave an inspirational IUBMB Jubilee Award Lecture at the BiophysicalSoc Thematic Meeting in Lima, Peru – here she is receiving the IUBMB medal and diploma from Prof Ilona Concha Grabinger, Austral University, Chile.

Congratulations to the 2019 IUBMB Jubilee Lecturers presenting plenary talks at meetings in Israel, Peru, Italy, Korea and Chile



Alex Varshavsky



Francesca Granucci



Gifs Wuite



Fu-Tong Liu



Palmer Taylor



Lynne Maquat

Congratulations to Prof Dr Csaba Szabo as the recipient of the IUBMB Lectureship



Dr Joan J Guinovart delivering certificate to Prof Dr Csaba Szabo



Congratulations to Prof Martha Cyert as the recipient of the IUBMB Lectureship



Dr Alexandra Newton delivering certificate to Prof Martha Cyert

Wiley-IUBMB Life Young Investigator Prize 2019

Congratulations to **Dr. Romuald Loutre**, first author of the article entitled “Can mitochondrial DNA be CRISPRized: pro and contra” co-authored by Ivan Tarassov, Anne-Marie Heckel, Anna Smirnova and Nina Entelis. The article has been published in IUBMB Life 70(12):1233-1239, 2018 as part of the theme issue on “Evolutionary Mitochondrial Biology”, coordinated by Prof. Mike Gray and Prof. Vamsi Mootha.

Romuald Loutre is a PhD student at the UMR 7156 (UDS-CNRS) Molecular Genetics Genomics Microbiology where he is currently studying the development of therapeutic strategies against diseases resulting from heteroplasmic



mutations of mitochondrial DNA. He completed his BSc from the University Paul Verlaine Metz and MSc from the University Louis Pasteur (Strasbourg I).

Wiley-BioFactors Young Investigator Prize 2019

Congratulations to **Dr. Amanda R. Gross**, first author of the article entitled “Chondroitin sulfate inhibits secretion of TNF and CXCL8 from human mast cells stimulated by IL-33” in collaboration with Theoharis C. Theoharides. The article has been published in BioFactors, Volume 45, Issue 1, 2019.

Amanda Gross completed her PhD in Pharmacology & Experimental Therapeutics in 2018 at Tufts University in the laboratory of Dr. Theoharis Theoharides, where she studied the inhibitory effects of glycosaminoglycans on activated human mast cells. Prior to her PhD, she completed her B.S. in Biology at the University of Florida. Currently, she is a Scientist within the Genomic Immunology group at GlaxoSmithKline (GSK) in Cambridge, MA,



where she is supporting target validation for autoimmune disease and immuno-oncology projects. In her spare time, Amanda enjoys playing ultimate frisbee and exploring new restaurants in town.

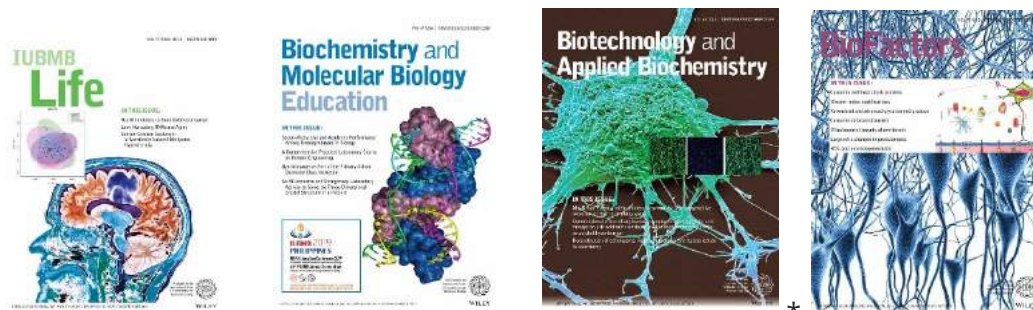
IUBMB JOURNALS

We are excited to highlight new research from the IUBMB Journals: IUBMB Life, BioFactors, Biotechnology and Applied Biochemistry, and Biochemistry and Molecular Biology Education.

Please also consider submitting your own research to the IUBMB Journals. You can expect to work with distinguished Editorial Board members and benefit from worldwide circulation and readership through our publishing partnership with Wiley. For more information about the journal and submissions, feel free to peruse the IUBMB journals website.

For now, please enjoy highlights of our recent content. Happy reading!

NEW LOOK FOR THE IUBMB JOURNALS!



IUBMB Life

[Special Issue: Protein Kinases in Tune](#)

Guest Editor: Alexandra Newton

[Special Issue: Special Issue on tRNA](#)

Guest Editors: Philippe Giegé and Laurence Drouard

Coming in January 2020: Special Issue on GATA Transcriptors, guest edited by John Strouboulis and John Crispino.

Check out the [latest issue](#) featuring:

[Trolox prevents high glucose-induced apoptosis in rat myocardial H9c2 cells by regulating GLUT-4 and antioxidant defense mechanism](#)

And

[MFG-E8 regulates inflammation and apoptosis in tendon healing, and promotes tendon repair: A histological and biochemical evaluation](#)

BioFactors

Check out the [latest Issue](#) featuring:

[Therapeutic effects of Crocin in autoimmune diseases: A review](#)

[MicroRNAs play an essential role in autophagy regulation in various disease phenotypes](#)

Biochemistry and Molecular Biology Education

Check out the [latest Issue](#) featuring:

[Social media use and academic performance among undergraduates in biology](#)

And

[Why don't students recognize creative learning opportunities in a biomedical science program?](#)

Did you know? Researchers in Germany can now publish Open Access in the IUBMB Journals at no cost to them.

Thanks to a partnership our publisher Wiley has signed with Projekt DEAL, over 700 German institutions now have full access to journals published by Wiley, including the IUBMB journals. Further, the partnership enables authors at [participating German institutions](#) to **publish open access at no cost to them** in the IUBMB journals; payment of the associated Article Publication Charge (APC) would be covered in full via the partnership. Authors will not need to cover the APCs from their own pockets.

Wiley has also signed similar agreements with universities in [the Netherlands](#), [Austria](#), [Norway](#), [Hungary](#), and with the US-based [OhioLink](#).

Submit your research to the [IUBMB journals](#) today.

UPCOMING MEETINGS

Travel Fellowships to 2020 Miami Winter Symposium Visit:

<http://www.miamiwintersymposium.com/travel-fellowships.asp>



[28th FAOBMB & 2nd CBSL Conference: Biochemistry and Molecular Biology for the Future](#)



IUBMB Focused Meeting "Neurodegenerative Diseases"

Taipei, Taiwan

25 – 27 February 2020

Contact: Dr. Yun-Ru Chen: (yrchen@gate.sinica.edu.tw)

visit: <https://iubmb.npas.programs.sinica.edu.tw/>

The banner features the IUBMB and FEBS logos on the left. The main text reads: "IUBMB Focused Meeting / FEBS Workshop Crosstalk between Nucleus and Mitochondria in Human Disease 19-22 May 2020 | Seville, Spain". On the right, there are "Register" and "Login" buttons. The background is a 3D visualization of a cell nucleus and mitochondria. A red bar at the bottom of the image contains the text "Crosstalk between Nucleus and Mitochondria in Human Disease". A small credit line at the bottom right of the image reads "Slider image created by Antonio Díaz-Quintana".

IUBMB Focused Meeting "Crosstalk between Nucleus and Mitochondria in Human Disease (CrossMitoNus)"

Seville, Spain

19 - 22 May 2020

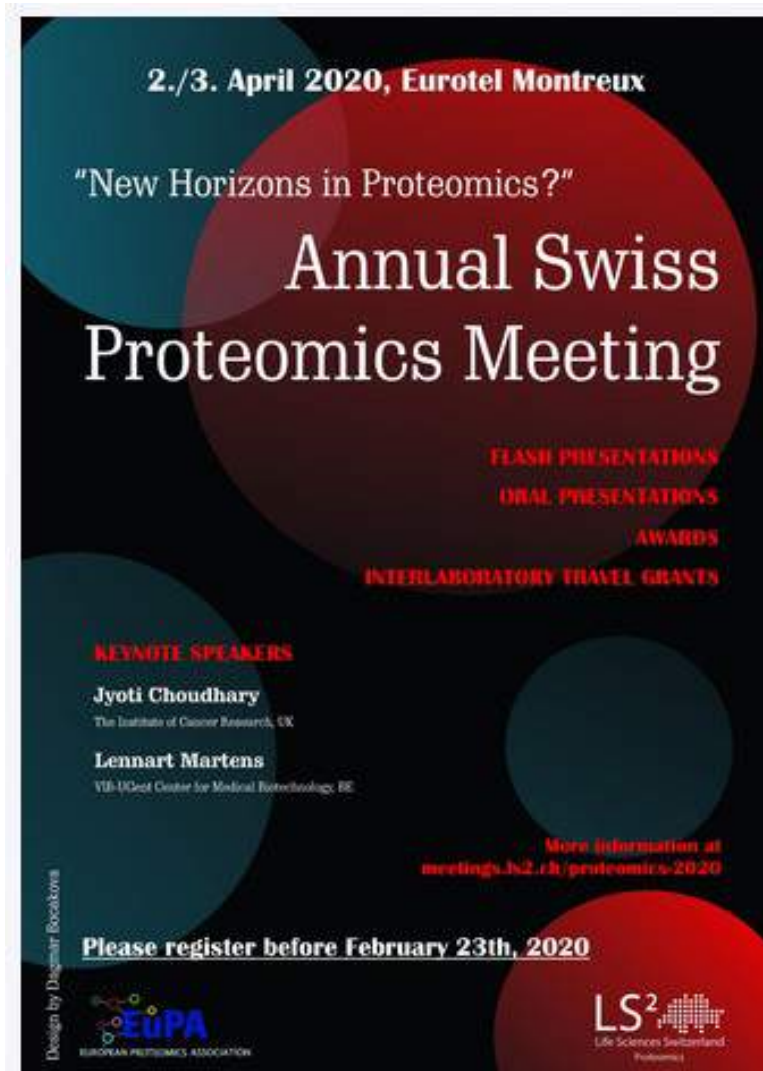
Contact: Dr. Irene Díaz-Moreno: (jjdiazmoreno@us.es)

IUBMB Focused Meeting "Biochemistry & Molecular Biology of RNA Viruses"

Faridabad, India

24 - 27 November 2020

Contact: Dr. Deepak T. Nair: (deepak@rcb.res.in)



2./3. April 2020, Eurotel Montreux

"New Horizons in Proteomics?"

Annual Swiss Proteomics Meeting

FLASH PRESENTATIONS
ORAL PRESENTATIONS
AWARDS
INTERLABORATORY TRAVEL GRANTS

KEYNOTE SPEAKERS

Jyoti Choudhary
The Institute of Cancer Research, UK

Lennart Martens
VIB-UGent Center for Medical Biotechnology, BE

More information at
meetings.hs2.ch/proteomics-2020

Please register before February 23th, 2020

Design by Dagmar Bobakova

EUPA
EUROPEAN PROTEOMICS ASSOCIATION

LS²
Life Sciences Switzerland
Pflanzli



LSCDS X CSMB PRESENT

LIFE SCIENCES CAREER EXPO 2020

EDUCATING THE NEXT GENERATION

MAY 13-15, 2020
HART HOUSE
UNIVERSITY OF TORONTO

WHAT IS THE LIFE SCIENCES CAREER EXPO (LSCE)?

LSCE is a national three day, multi-university career conference designed to bring together graduate students and postdoctoral fellows with educators, researchers, industry partners and government stakeholders, with the common interest of educating the next generation of trainees about the diverse careers in the life sciences sector.

EVENT HIGHLIGHTS

- KEYNOTE & CAREER PANEL DISCUSSIONS
- COMPANY SPOTLIGHT PRESENTATIONS
- PROFESSIONAL SKILLS WORKSHOPS
- COMPANY BOOTH FAIRS
- JOB SIMULATIONS PROGRAM
- INFORMATIONAL INTERVIEWS

PRESENTED BY THE LIFE SCIENCES CAREER DEVELOPMENT SOCIETY AND THE CANADIAN SOCIETY FOR MOLECULAR BIOSCIENCES

FIND OUT MORE AT WWW.LSCE.CA

IUBMB Programs and Benefits of Membership

IUBMB provides a wide range of programs available to scientists resident in IUBMB member countries, including:

Congresses are held triennially in countries that are members of the Union and have a record of being outstanding and memorable scientific events for the world community of biochemists and molecular biologists.

Focused Meetings replaced Conferences and Symposia in 2017. Up to 3 per year will be sponsored to a maximum of US\$60,000 each.

Young Scientists' Programs are competitive awards covering travel, accommodation and meals for participation in the YSP held in conjunction with Congresses and Focused Meetings.

Advanced Schools provide advanced training of PhD students and young postdoctoral fellows in the field of biochemistry, molecular biology and cell biology. These competitive awards cover travel, accommodation and meals for successful applicants.

Educational Activities. The IUBMB is involved in a broad range of educational programs. The Union distributes biochemistry textbooks and review journals without charge to scientists and teachers in developing areas, and holds or sponsors symposia on education at regional biochemical meetings around the world. It also cooperates with the editors of the journal *Biochemistry and Molecular Biology Education* in identifying timely topics for presentation at symposia and workshops.

Wood-Whelan Research Fellowships are competitive awards covering travel, incidental costs and living expenses for visits of 1-4 months to other laboratories in the IUBMB region for the purpose of carrying out experiments that require special techniques or for other forms of scientific collaboration or advanced training.

Mid-Career Research Fellowships were established in response to an increased demand for further training of mid-career biochemists in the Developing World. These are short-term Fellowships (1-2 months), covering travel and incidental costs to a maximum of US\$5,000, to enable researchers to work in an established laboratory to learn state-of-the-art techniques that are not readily available in their own countries.

Trans-Continental Youth Travel Fellowships. This collaborative activity between the IUBMB and the Federation of European Biochemical Societies (FEBS) provides trans-continental Youth Travel Fellowships to FEBS Advanced Courses and is financed by IUBMB.

Plenary and Jubilee Lectures. At IUBMB Congresses, several endowed lectures feature prominently in the program: IUBMB, Osamu Hayaishi, Chester Beattie, IUBMB Life, Feodor Lynen, Severo Ochoa, EC Slater and Edward Wood Lectures. In addition, IUBMB Jubilee and Special Lectures are intended as Plenary Lectures at scientific meetings, in particular of the smaller Adhering Bodies or Associate Adhering Bodies for which the budget would normally allow only for local speakers.

FEBS-IUBMB Speakers. This collaboration between IUBMB and FEBS provides financial support for invited speakers at FEBS Advanced Lecture Courses, FEBS Workshops and FEBS Special Meetings. Up to 10 invited speakers are supported per annum (up to US\$2,000 each) from outside Europe.

IUBMB Publications. Trends in Biochemical Sciences, IUBMB Life, Biochemistry and Molecular Biology Education (BAMBE_d), Biotechnology and Applied Biochemistry, Molecular Aspects of Medicine, BioFactors. In addition, the following books/pamphlets are produced by IUBMB: Wiley-IUBMB Book Series, Standards for Doctoral Degrees in the Molecular Biosciences, and Metabolic Pathways Maps and Animated Maps (Animaps) prepared by the late Don Nicholson, University of Leeds.

Biochemical Nomenclature. The International Union of Pure and Applied Chemistry (IUPAC) and the IUBMB have established the *IUPAC-IUBMB Joint Commission on Biochemical Nomenclature* (JCBN) and the *Nomenclature Committee of the International Union of Biochemistry and Molecular Biology* (NC-IUBMB).

In order to maintain and enhance these programs, IUBMB depends on the financial support of its Adhering Bodies. It is important to note that the annual dues have not been increased for many years. Rather, the Executive Committee has preferred to pursue additional sources of income. Publications represent the major source of income for IUBMB but, with the rapid changes occurring in the publication business, particularly with the advent of open access publishing, maintenance of this income at current levels is challenging. The Executive Committee is continuously working hard to develop alternative funding sources, but the Union is still very dependent on the support of its Adhering Bodies.

Adhering Body status in the IUBMB is an investment rather than an expense. The direct financial benefits from membership in the IUBMB surpass the actual cost, and there are many other associated non-monetary benefits.

Finally, it is also important to note that IUBMB is an international organization that, in addition to providing opportunities to all member countries, emphasizes programs that support young scientists, particularly from developing countries. The Union's philosophy has always been that rich countries can afford to contribute more than poorer countries to this end. Of course, situations change over time and one of the roles of the Executive Committee is to keep track of such changes and, for example, encourage emerging economies to contribute in proportion to their capacity, and to recruit new members to the Union.

More details about the extensive list of IUBMB programs can be found on the Union's website: www.iubmb.org

IUBMB EXECUTIVE COMMITTEE

PRESIDENT: Andrew H.-J. Wang (ahjwang@gate.sinica.edu.tw)

PRESIDENT-ELECT: Alexandra Newton (anewton@ucsd.edu)

PAST-PRESIDENT: Joan J. Guinovart (guinovart@irbbarcelona.org)

GENERAL SECRETARY: Jim Davie (Jim.Davie@umanitoba.ca)

TREASURER: Francesco Bonomi (francesco.bonomi@unimi.it)

MEMBER FOR EDUCATION & TRAINING: Janet Macaulay (janet.macaulay@monash.edu)

MEMBER FOR CONGRESSES & FOCUSED MEETINGS: Ilona Concha Grabinger
(conchagrabinger@uach.cl)

MEMBER FOR PUBLICATIONS: Zengyi Chang (changzy@pku.edu.cn)



We are the IUBMB!

