

Congress Venue:

Convention Center  
Rafain Palace Hotel  
Foz do Iguaçu, Paraná, Brazil

<http://www.sbbq.org.br/iubmb2015/>



SBBq-IUBMB Secretariat  
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**23<sup>rd</sup> IUBMB Congress  
44<sup>th</sup> Annual SBBq Meeting  
Foz do Iguaçu - Brazil**



**August 24 - 28, 2015**



## **Foz do Iguaçu, Brazil**

The city of Foz do Iguaçu (Brazil) is known for its natural wonders including the famous Iguaçu Falls in the Iguaçu National Park, a Unesco Worlds Heritage Site. Just as a comparison, Iguaçu Falls has a water flow three times higher than the famous US/Canadian Niagara Falls. Additionally, the Iguaçu Falls are composed of about 275 falls of diverse sizes. A footbridge takes the visitors for a close view of the tallest one, The Devil's Throat, which is 97 m high. Boat and helicopter rides are also available. Additionally, a visit to the Iguaçu National Park may include ecological trails and bus and bike tours, in which the visitor can see local animals and plants.

The city of Foz do Iguaçu is easily reached in approximately 1 hour flights from the International Airports of Sao Paulo and Rio de Janeiro, the main Brazilian hubs with connections to the main cities in the World. Additionally, the location of the city of Foz do Iguaçu, near the Brazil-Argentina border and close to Chile and Uruguay, favors the integration with other Latin American countries.

### **Emerging Viral Diseases**

Inflammation

Metabolic Diseases

Molecular Biology of Arthropods

Molecular Mechanisms in Neurodegenerative Diseases

Nanobiotechnology

Neurochemistry

Neurogenesis

Obesity

Protein Misfolding Diseases

Redox Signalling

Science Education

Spatial Distribution of Process Inside Cells

Stem Cells and Cell Therapy

### **Program Format**

	<b>August 24th Monday</b>	<b>August 25th Tuesday</b>	<b>August 26th Wednesday</b>	<b>August 27th Thursday</b>	<b>August 28th Friday</b>
09:30-11:30		Symposia (SP01 to SP05)	Symposia (SP07 to SP15)	Symposia (SP21 to SP25)	Symposia (SP31 to SP35)
11:30-12:00		Coffee break	Coffee break	Coffee break	Coffee break
12:00-13:00		Keynote Lecture	Keynote Lecture	Keynote Lecture	Keynote Lecture
13:00-14:00		Lunch	Lunch	Lunch	Closing Ceremony
14:00-15:00	Opening Exhibit	Keynote Lecture	Keynote Lecture	Keynote Lecture	
15:00-15:30		Coffee break	Coffee break	Coffee break	
15:30-17:30		Symposia (SP06 to SP10)	Symposia (SP16 to SP20)	Symposia (SP26 to SP30)	
17:30-18:00	Opening Ceremony	Break Time	Break Time	Break Time	
18:00-19:00	Opening Lecture				
18:00-20:00		Poster Session	Poster Session	Poster Session	
19:00-22:00	Cocktail				

### **Young Scientist Program and Fellowships**

The Young Scientist Program will be an opportunity for young researchers to present results in an international forum and discuss with senior scientists. YSP Fellowships will cover travel costs for 50 young researchers. Additionally, the Cone Sul Symposia, sponsored by SBBq, will offer 36 fellowships for pos-docs and graduate students from South America. Details about the application for these programs may be found in the congress website [www.sbbq.org.br/iubmb2015](http://www.sbbq.org.br/iubmb2015).

### **Venue**

The congress will be held at the Rafain Palace Hotel and Convention Center (<http://www.rafainpalace.com.br/v2/home ing/index.php>) which has 43 meeting rooms in 18,015 m<sup>2</sup>. This convention center holds the Annual SBBq Meeting, with approximately 2,500 participants annually. Lunch will be offered on site to all congress participants and a transport network connecting the main hotels to the convention center will be available. The hotel network in Foz do Iguaçu is modern and has more than 20,000 beds.



## Scientific Program

The program will be composed by Keynote Lectures (KL), Symposia (SP), Courses (CO), Discussion Groups (DG) and Poster Session (PS).

Confirmed **keynote** lectures will be presented by

**Johann Deisenhofer** University of Texas Southwestern Medical Center, USA, a German biochemist who, along with Hartmut Michel and Robert Huber, received the Nobel Prize for Chemistry in 1988 for the determination of the first crystal structure of an integral membrane protein, a membrane-bound complex of proteins and co-factors that are essential for photosynthesis.

**Kurt Wüthrich** The Scripps Research Institute, USA, a Swiss chemist/biophysicist and Nobel Chemistry laureate, developed Nuclear Magnetic Resonance (NMR) methods for studying biological macromolecules.

**Stanley Prusiner** is an American neurologist and biochemist. Currently the director of the Institute for Neurodegenerative Diseases at University of California, San Francisco (UCSF). Prusiner discovered prions, a class of infectious self-reproducing pathogens primarily or solely composed of protein. He received the Albert Lasker Award for Basic Medical Research in 1994 and the Nobel Prize in Physiology or Medicine in 1997 for his prion research.

**Tom Steitz** Howard Hughes Medical Institute, USA - Steitz was awarded the 2009 Nobel Prize in Chemistry along with Venkatraman Ramakrishnan and Ada Yonath for studies of the structure and function of the ribosome. Steitz also won the Gairdner International Award in 2007 for his studies on the structure and function of the ribosome which showed that the peptidyl transferase was an RNA catalyzed reaction, and for revealing the mechanism of inhibition of this function by antibiotics.

**Martin Chalfie** Columbia University, USA - Dr. Chalfie shared the 2008 Nobel Prize in Chemistry with Osamu Shimomura and Roger Y. Tsien for the discovery and development of the green fluorescent protein, GFP.

**Symposia** will consist of lectures delivery by invited senior scientists who are internationally recognized experts and leaders in their fields.

**Topics of the Symposia are as follows:**

- Aging
- Autophagy
- Bioenergy
- Biomaterials and Synthetic Biology
- Cancer
- Cell Signalling
- Cell Differentiation
- Chaperones
- Diabetes

## Welcome to Brazil!

On behalf of the organizing committee, we sincerely welcome you to the **23<sup>rd</sup> IUBMB Congress** and **44<sup>th</sup> Annual SBBq Meeting**, to be held in **Foz do Iguaçu, Paraná, Brazil, August 24 - 28, 2015**

This Congress aims to offer a broad international overview of the frontiers of research and recent developments in Biochemistry and Molecular Biology.

The Annual Meeting of Brazilian Biochemistry and Molecular Biology Society (SBBq) is currently one of the most traditional events in the Brazilian scientific community. For over four decades, these meetings have provided a scenario and forum for debates involving the advancement of fundamental knowledge of Biochemical phenomena, their employment for social benefit and integration of this knowledge with other scientific segments.

We wish to thank all the highly accomplished invited speakers for accepting our invitation to present their work at the Congress, thus contributing to an outstanding program we are certain all participants will find enlightening and enjoyable.

We also wish to welcome all the participants from abroad, hoping that, in addition to discussing Science here, they will find time to experience some of our culture.

Bem-vindos ao Brasil!!!

Sincerely yours,

Glaucius Oliva

Chair of the Organization of the - 23<sup>rd</sup> IUBMB Congress

Jerson Lima da Silva

President of Scientific Committee

## Biochemistry for a better world

The International Union of Biochemistry and Molecular Biology (IUBMB) will host the 23<sup>rd</sup> IUBMB Congress in Brazil, in the city of Foz do Iguaçu, August 24-28, 2015, as a joint event with the 44<sup>th</sup> Annual Meeting of the Brazilian Society for Biochemistry and Molecular Biology (SBBq) . The IUBMB Congress completes the triad of worldwide events taking place in Brazil over the next years, including the Soccer World Cup in 2014 and The Olympic Games in 2016.

Knowledge regarding the biochemical aspects of life has increased dramatically over the years. We have achieved a wide range of abilities, from characterizing single molecules, to studying complex interactions between biological components, and we are heading towards computational simulations of complete biological systems. This knowledge shed a light on the past of our planet and will also contribute toward enlightening its future.

The IUBMB Congress is an opportunity to strengthen our networks, advance our Science, and make a better world.

### Scientific Program and Organization

The scientific program will be composed of plenary lectures, symposia and poster sessions, prepared by the Scientific Committee. The SBBq secretariat, composed of 3 fulltime secretaries and 6 directors will work together with the Organizing Committee in order to prepare the congress.

#### Scientific Committee

Jerson Lima da Silva - chairman	Universidade Federal do Rio de Janeiro	Brazil
Andrew H.-J. Wang	Academia Sinica	Taiwan
Angelo Azzi	Tufts University	USA
Anibal Vercesi	Universidade Estadual de Campinas	Brazil
Carlos Medicis Morel	~Fundação Oswaldo Cruz	Brazil
Debora Foguel	Universidade Federal do Rio de Janeiro	Brazil
Efstathios Gonos	National Hellenic Research Foundation	Greece
Gregory Petsko	Brandeis University	USA
Heidi E. Hamm	Vanderbilt University	USA
Hernan Chaimovich	~Universidade de São Paulo	Brazil
Iqbal Parker	Int. C. Gen. Eng. Biotech.	South Africa
Israel Pecht	The Weizmann Institute of Science	Israel
John Mattick	Garvan Institute of Medical Research	Australia
Jorge Babul	Universidad de Chile	Chile
Juan Bonifacino	Eunice Kennedy Shriver Nat. Institute	USA
Khalid Fares	University Cadi Ayyad	Morocco
Masamitsu Futai	Iwate Medical University	Japan
Michael Walsh	University of Calgary	'Canada
Miguel Angel de la Rosa	Universidad de Sevilla	Spain
Moacir Wajner	Universidade Federal do Rio Grande do Sul	Brazil

*Paulo Sergio L. Beirao	Universidade Federal de Minas Gerais	Brazil
Phillip Nagley	Monash University	Australia
Rafael Radi	Universidad de La Republica	Uruguay
Susan Hamilton	University of Queensland	Australia
Susan Taylor	University of California	USA
Uhtaek Oh	Seoul National University	Korea
Walter Colli	~Universidade de São Paulo	Brazil

#### Local Organizing Committee

Glaucius Oliva - Chairman	Universidade de São Paulo	Brazil
Jerson Lima da Silva	Universidade Federal do Rio de Janeiro - SBBq President	Brazil
José Roberto Meyer-Fernandes	Universidade Federal do Rio de Janeiro - SBBq Vice-President	Brazil
Walter R. Terra	Universidade de São Paulo - SBBq General Secretary	Brazil
Sandro R. Marana	Universidade de São Paulo - SBBq Secretary	Brazil
Alicia Kowaltowski	Universidade de São Paulo - SBBq Treasurer	Brazil
Mauricio Baptista	Universidade de São Paulo - SBBq Treasurer	Brazil
Andrés Troschansky	Universidad de La Republica	Uruguay
Carlos Andreo	Centro de Estudios Fotosintéticos y Bioquímicos	Argentina
Carlos Bloch	Empresa Brasileira de Pesquisa Agropecuária	Brazil
Bianca Zingales	Universidade de São Paulo	Brazil
Fabio Almeida	Universidade Federal do Rio de Janeiro	Brazil
Fátima Dias Costa	Universidade Federal da Bahia	Brazil
Hernan Terenzi	Universidade Federal de Santa Catarina	Brazil
Miguel Castanho	Universidade de Lisboa	Portugal
Rafael Linden	Universidade Federal do Rio de Janeiro	Brazil
Richard Garratt	Universidade de São Paulo	Brazil
Selma Jerônimo	Universidade Federal do Rio Grande do Norte	Brazil
Cynthia Bando	SBBq Administrative Secretary	Brazil

