

20 <sup>th</sup> IUPAB Congress, 45 <sup>th</sup> Annual Meeting of SBBf and 50 <sup>th</sup> Annual Meeting of SBBq			
Scientific Program (UTC -3:00 São Paulo, Brazil)			
Monday, October 4 <sup>th</sup> , 2021			
6:30 - 8:30 am	<b>Biophysical Reviews Editorial Board meeting</b>		
9:00 - 9:30 am	<b>Opening Ceremony</b>		
9:30 - 10:30 am	<b>Keynote Lecture 1</b> Chair: Manuel Prieto, iBB-IST, Portugal		
	<b>Richard Henderson</b> , MRC Labs, Cambridge, UK <i>Impact of single particle electron cryo-microscopy in structural biology</i>		
10:45 am 12:45 pm	<b>Symposium 1</b>	<b>Symposium 2</b>	<b>Symposium 3</b>
	<b>Drug design and delivery</b>	<b>Protein Structure Dynamics and Functions</b>	<b>Biological Photosensors and their Applications in Optogenetics</b>
	Chair: Joke Bouwstra, Univ of Leiden	Chair: Richard Garratt, IFSC-USP, Brazil	Chair: Silvia Braslavsky, MPI, Germany
	<b>Peter Swaan</b> , University of Maryland, USA	<b>Frances Separovic</b> , University of Melbourne	<b>Masahide Terazima</b> , Kiyoto University, Japan
	<b>Silvia Alonso</b> , University of Quilmes, Argentina	<b>Marius Schmidt</b> , University of Wisconsin-Milwaukee	<b>Andrew Woolley</b> , University of Toronto
	<b>Joke Bouwstra</b> , University of Leiden, The Netherlands	<b>Bonnie A. Wallace</b> , University of London	<b>Matias Zurbriggen</b> , University of Dusseldorf, Germany
	<b>Adriana Pohlmann</b> , Univ. do Rio Grande do Sul, Brazil	<b>Andrea Dessen</b> , LNBio-Campinas, IBS-Grenoble	<b>Leonardo Assis</b> , Univesity of Lübeck, Germany
12:45 - 1:30 pm	Break		
1:30 to 2: 30 pm	<b>Keynote Lecture 2</b> Chair: Leandro Barbosa, IF-USP, Brazil		
	<b>Carlos Bustamante</b> , University of Berkeley, USA <i>Co-temporal Force and Fluorescence Measurements Reveal a Ribosomal Gear-shift Mechanism of Translation Regulation by mRNA Secondary Structures</i>		
2:45 - 4:45 pm	<b>Symposium 4</b>	<b>Symposium 5</b>	<b>Symposium 6</b>
	<b>Macromolecular Machines and Switching Devices</b>	<b>Royal Society of Chemistry Chemical Biology</b>	<b>24<sup>th</sup> Prize for Young Talent in Life Sciences</b>
	Chair: Alejandro Buschiazzo	Chair: Randall Peterson, University of Utah	Chair: Juliana Fietto, UFV
	<b>Axel Brunger</b> , Stanford University, USA	<b>Sara Sattin</b> , University of Milan, Italy	<b>Bruna A.G. de Melo</b> , UNIFESP, Brazil
	<b>Charles Sindelar</b> , Yale University, USA	<b>Frederico Gueiros</b> , USP, Brazil	<b>Carolina M. Polonio</b> , USP, Brazil
	<b>Alejandro Buschiazzo</b> , Institut Pasteur-Montevideo, Uruguay	<b>Randall Peterson</b> , University of Utah, USA	<b>Célio J.C. Fernandes</b> , Unesp, Brazil
	<b>Alessandra Del Giudice</b> , Sapienza University of Rome, Italy	<b>Mariana Chaves Micheletto</b> , FFCFRP, USP, Brazil	<b>Marlon H.S. Cardoso</b> , UCDB, Brazil
	<b>Leticia Irene Llarrull</b> , Univ do Rosario, Argentina	<b>Isaac de Araujo Matos</b> , USP, Brazil	<b>Robson Tramontina</b> , Unicamp, Brazil

**Tuesday, October 5th, 2021**

6:30 - 8:30 am	<b>Biophysical Reviews Journal</b>		
	Damien Hall - (Editor) Meran Lloyd-Owen (Japan) Joshua Ho (Hong Kong China)	Kuniaki Nagayama (Japan) N. Jaganatthan (India) German Rivas (Spain)	Steven Harding (UK) Rosangela Itri (Brazil) Wilma Olson - (USA)
9:00 - 10:00 am	<b>Keynote Lecture 3</b> Chair: Leda Q. Vieira, UFMG, Brazil		
	<b>Giorgio Trinchieri</b> , Center for Cancer Research, NCI, NIH, Maryland, USA <i>Targeting the microbiome in cancer immunotherapy</i>		
10:15 - 12:15 am	<b>Symposium 7</b>	<b>Symposium 8</b>	<b>Symposium 9</b>
	<b>Deforming membranes</b>	<b>Systems biology and biomarkers for human disorders</b>	<b>PABMB Symposium: Metabolism and Bioenergetics</b>
	Chair: Patricia Bassereau, Institut Curie, France	Chair: Peter Nilsson	Chair: Alicia J. Kowaltowski
	<b>Michael Kozlov</b> , Tel Aviv University, Israel	<b>Hiroki Ueda</b> , RIKEN, Japan	<b>Antonio Zorzano</b> , IRB Barcelona, Spain
	<b>Rumiana Dimova</b> , Max Planck Institute of Colloids and Interfaces, Germany	<b>Daniel Martins de Souza</b> , Unicamp, Brazil	<b>Marcos Chiaratti</b> , UFSCAR
	<b>Paul A Janmey</b> , Univ. of Pennsylvania, USA	<b>Peter Nilsson</b> , KTH Royal Institute of Technology, Sweden	<b>Valentina O. Parra</b> , University of Chile, Chile
	<b>Luís G.M. Basso</b> , UENF, RJ	<b>Augusto Frantz Uberti</b> , PUCRS, Brazil	<b>Caroline S. Pereira</b> , USP, Brazil
	<b>Clara M.L.F. da Mott</b> , UFRJ, RJ	<b>Bianca Cruz Pachane</b> , UFSCAR, Brazil	
1:00 - 3:00 pm	<b>E-Poster Session (PS-01 Odd-numbered panels )</b> The presenters are expected to be logged in the platform during their respective poster section and interact with the audience using a chat interface (typing only).		
3:00 - 5:00 pm	<b>Symposium 10</b>	<b>Symposium 11</b>	<b>Symposium 12</b>
	<b>Biophotonics</b>	<b>Microbiomes: human and environmental</b>	<b>Molecular and Cell Imaging</b>
	Chairs: Georg Wondrak and Martha S. Ribeiro	Chair: Leda Quercia Vieira - UFMG, Brazil	Chair: Paulo Bisch, UFRJ, Brazil
	<b>Martha S. Ribeiro</b> , USP, Brazil	<b>Lars Engstrand</b> , Karolinska Institutet, Sweden	<b>Fernando D. Stefani</b> , University Buenos Aires, Argentina
	<b>Georg Wondrak</b> , University of Arizona, USA	<b>João Setubal</b> , IQ-USP, Brazil	<b>Enrico Gratton</b> , University California, USA
	<b>Martina Meinke</b> , University of Berlin, Germany	<b>Emmanuel Dias Neto</b> , AC Camargo Center, Brazil	<b>Marco Capitanio</b> , LENs, Un, Florence, Italy
	<b>Tania M. Yoshimura</b> , IPEN/CNEN, Brazil	<b>Jumpei Yamagishi</b> , The University of Tokyo, Japan	<b>Sara Anselmo</b> , University of Palermo, Italy
	<b>Matheus del Valle</b> , Ipen, Brazil	<b>Ivan Rosa e Silva</b> , Queen Mary University of London, UK	<b>Fabiana A. Carneiro</b> , UFRJ, Brazil
5:30 - 7:00 pm	<b>50 Anos da Pós Graduação em Bioquímica da FMRP-USP</b> Chair: Vitor M. Faça		
	<i>Graduate Program in Biochemistry - FMRP - USP: 50 years of history and achievement</i> , Prof. <b>Vitor Marcel Faça</b> <i>Proteoliposomes as a mimic model of matrix vesicles and bone mineralization</i> , Prof. <b>Pietro Ciancaglini</b> <i>Deletion of AA9 lytic polysaccharide monoxygenases impairs fungal growth on lignocellulose</i> , Prof. <b>André Damasio</b> <i>Unraveling the neurotropic potential of the emergent viruses Oropouche and SARS-CoV-2 using adult human brain slice cultures</i> , <b>Glaucia Almeida</b> <i>Glucocorticoids decrease the thermogenic capacity and increase the triacylglycerol synthesis by glycerokinase activation in brown adipose tissue of rats</i> , <b>Ana Paula De Assis</b> <i>Effects of NT157 on tyrosine kinase signaling pathways in BCR-ABL1 T315I cells</i> , <b>Virginia C. Silvestrini</b>		

Wednesday, October 6th, 2021			
9:00 to 10:00 am	<b>Bei Shizhang Lecture 4</b> Chair: Pingsheng Liu, China		
	<b>Tao Xu</b> , Institute of Biophysics Chinese Academy of Sciences, China <i>Cryogenic superresolution correlative light and electron microscopy on the frontier of subcellular imaging</i>		
10:15 - 12:15 am	<b>Symposium 13</b>	<b>Symposium 14</b>	<b>Symposium 15</b>
	<b>Ionic channels and membrane transporters</b>	<b>Biomolecular association and dynamics</b>	<b>Gender in Science</b>
	Chair: John Baenziger, University of Ottawa, Canada	Chair: Paul Whitford	Chair: Maria Cristina Nonato (USP, Brazil) and David Crossman (Univ. of of Auckland – New Zeland)
	<b>Francisco Bezanilla</b> , University of Chicago, USA	<b>Andrei Korostelev</b> , University of Massachussets, USA	<b>Carla Mattos</b> , Northeastern University, US
	<b>Alexander I. Sobolevsky</b> , Columbia University, USA	<b>Hue Sun Chan</b> , University of Toronto, Canada	<b>Frances Separovic</b> , University of Melbourne, Australia
	<b>Renaë Ryan</b> , University of Sydney, Australia	<b>Pablo I.D. Dans Puiggros</b> , Uruguay	<b>Lauren Arendse</b> , University of Cape Town, South Africa
	<b>John Baenziger</b> , University of Ottawa, Canada	<b>Koby Levy</b> , Weizmann Institute, Israel	<b>Milagros Medina</b> , University of Zaragoza, Spain
			<b>Pimchai Chaiyen</b> , Inst.of Science and Tech., Thailand
12:15	<b>Break</b>		
1:15 - 2:15 pm	<b>Keynote Lecture 5</b> Chair: Koby Levy, Weizmann Institute, Israel		
	<b>Michael Levitt</b> , Stanford University, USA <i>Lessons from 620 Days Studying Covid-19</i>		
2:30 - 3:30 pm	<b>Exhibitor Presentation - 1</b>	<b>Exhibitor Presentation - 2</b>	
	<b>Cytiva</b>	<b>DAAD &amp; DFG - Session 1</b>	
	Purifying samples for cryo-EM preps	Brazilian-German exchanges in Biochemistry, Biophysics and Molecular Biology	
	<b>Speakers:</b> Lotta Hedkvist, Global Product Manager, Cytiva / Veronica Fridh, Global Product Manager for Biacore systems, Cytiva / Emma Lind, Global Product Manager for resins, Cytiva	Testimonials of historical and contemporary cases on the German-Brazilian exchanges in Biochemistry, Biophysics and Molecular Biology	
	Q&A Session: Melissa Armelini, Product Specialist, Cytiva Rafael Santos, Product Specialist, Cytiva	<b>Speakers:</b> Prof. Dr. Werner Mäntele, IBP, Goethe University Frankfurt, Germany / Prof. Dr. Matias Zurbruggen, ISB, University of Düsseldorf, Germany / Prof. Dr. Rumiana Dimova, MPI, Germany	
3:30 - 4:30 pm	<b>Exhibitor Presentation - 4</b>	<b>Exhibitor Presentation - 5</b>	
	<b>Thermo Fisher Scientific</b>	<b>DAAD &amp; DFG - Session 2:</b>	
	Recombinant Protein Cloning: New Frontiers	Exchange and Fellowship Programs of the German Academic Exchange Service (DAAD) Funding Programmes of the German Research Foundation (DFG)	
	<b>Speaker:</b> Helder Teixeira de Freitas, Brazil	<b>Speakers:</b> Prof. Dr. Werner Mäntele, IBP, Goethe University Frankfurt, Germany / Prof. Dr. Matias Zurbruggen, ISB, University of Düsseldorf, Germany / Prof. Dr. Rumiana Dimova, MPI, Germany	
4:30- 5:30 pm	<b>Exhibitor Presentation - 8</b>		
	<b>Sartorius</b>		
	Application of Octet BLI-Technology for Characterization and Life Cycle Management of Critical Reagents for Development of Contemporary Biotherapeutics		
	<b>Speaker:</b> Ronald Bowsher, Ph.D., USA / Alyssa Cieslak, USA		

**Thursday, October 7th, 2021**

9:00 - 10:00 am	<b>Keynote Lecture 6</b> Chair: Maurício da Silva Baptista, IQ-USP, Brazil		
	<b>Ohara Augusto</b> , University of São Paulo, Brazil <i>Carbon dioxide redox metabolites in eustress and oxidative distress</i>		
10:15 - 12:15 am	<b>Symposium 16</b>	<b>Symposium 17</b>	<b>Symposium 18</b>
	Protein Folding Misfolding and Unfolding	EBSA Symposium on "Translational Biophysics"	Autophagy: mechanisms and applications
	Chair: Vladimir Uversky	Chairs: Anthony Watts and Jesús Pérez-Gil	Chair: Marcelo Mori
	<b>Prakash Kulkarni</b> , City of Hope National Medical Center, California, USA	<b>Amitabha Chattopadhyay</b> , Centre for Cellular & Mol Biology, Hyderabad, India	<b>Maho Hamasaki</b> , Osaka University, Japan
	<b>Gonzalo de Prat-Gay</b> , Fund Inst. Leloir Argentina	<b>Anthony Wilkinson</b> , York University, UK	<b>Julio Ferreira</b> , USP, Brazil
	<b>Orkid Coskuner-Weber</b> , German University	<b>Peter Pohl</b> , Vienna University, Austria	<b>Louis R. Lapierre</b> , Brown University, Providence, USA
	<b>Alexander V. Fonin</b> , Russian Academy of Sciences	<b>Jesus Pérez-Gil</b> , President of EBSA, Universidad Complutense, Madrid, Spain	<b>Nektarios Tavernarakis</b> , IMBB, Greece
12:15 - 1:15pm	<b>Break</b>		
1:15-2:15 pm	<b>Keynote Lecture 7</b> Chair: Daniel Peluffo, UDELAR, Uruguay		
	<b>Ramon Latorre</b> , University of Valparaiso, Chile <i>Calcium-driven voltage sensing and the role of charged residues in the voltage sensor domain of BK channels</i>		
2:30 - 4:30 pm	<b>Symposium 19</b>	<b>Symposium 20</b>	<b>Symposium 21</b>
	Membrane Simulation	Systems Biologics: At the interfaces of engineered proteins, their cell surface receptors and cellular molecular networks	IUBMB Symposium: Science Education
	Chair: Mikko Kartunnen	Chair: Stephen Michnick	Chair: Manuel João Costa
	<b>Peter Tieleman</b> , University of Calgary, Canada	<b>Sachdev Sidhu</b> , University of Toronto, Canada	<b>Erin Dolan</b> , University of Georgia, USA
	<b>Mikko Kartunnen</b> , University of Western Ontario, Canada	<b>Madan Babu</b> , University of Cambridge, UK	<b>Luciane V. Mello</b> , University of Liverpool, UK
	<b>Syma Khalid</b> , University of Oxford, UK	<b>Emerson Rodrigo Da Silva</b> , Unifesp, Brazil	<b>Manuel João Costa</b> , Universidade do Minho, Portugal
	<b>Thereza Amelia Soares da Silva</b> , UFPE, Brazil	<b>Stephen Michnick</b> , Université de Montreal, Canada	<b>Vera M.T. Trindade</b> , UFRGS, Brazil
4:30-6:30 pm	E-Poster Session (PS-02 Even-numbered panels ) The presenters are expected to be logged in the platform during their respective poster section and interact with the audience using a chat interface (typing only).		

Friday, October 8th, 2021			
09:00 - 10:00 am	<b>Keynote Lecture 8</b> Chair: Rosangela Itri, IF-USP, Brazil		
	<b>Angela Gronenborn, University of Pittsburgh, USA</b> <i>The awesome power of Fluorine NMR</i>		
10:15 - 12:15 am	<b>Symposium 22</b>	<b>Symposium 23</b>	<b>Symposium 24</b>
	<b>Scissioning membranes</b>	<b>Redox Biology</b>	<b>Biophysics of immune system</b>
	Chair: Rumiana Dimova	Chair: Rafael Radi	Chair: Jean-Marie Ruyschaert
	<b>Jeanne Stachowiak</b> , Univ of Texas, USA	<b>Rafael Radi</b> , UDELAR, Uruguay	<b>Nicholas J. Gay</b> , University of Cambridge, UK
	<b>Patricia Bassereau</b> , Institut Curie, France	<b>Kostas Tokatlidis</b> , University of Glasgow, UK	<b>Jean-Marie Ruyschaert</b> , Université Livres de Bruxelles, Belgium
	<b>Markus Deserno</b> , Carnegie Mellon, Pittsburgh, USA	<b>Luis E.S. Netto</b> , USP, Brazil	<b>Roman Jerala</b> , National Institute of Chemistry, Slovenia
	<b>Ernesto Ambroggio</b> , Univesidad de Cordoba, Argentina	<b>Valdecir F. Ximenes</b> , Unesp, Brazil	<b>M. Georgina Herrera</b> , University of Buenos Aires, Argentina
		<b>Mariana Juliani do Amaral</b> , UFRJ, Brazil	<b>Malvina Pizzuto</b> , Universidad de Murcia, Spain
12:30- 01:00 am	<b>IUPAB Lecture 9 Young Scientist</b> Chair: John Baenziger, University of Ottawa, Canada		
	<b>Yoav Shechtman</b> , Technion, Haifa, Israel <i>Next generation localization microscopy - or - how and why to ruin a perfectly good microscope</i>		
1:00-2:00 pm	<b>IUPAB Lecture 10</b> Chair: Juan Carmelo Gómez Fernandez, Universidad de Murcia, Spain		
	<b>Anthony Watts</b> , University of Oxford, UK <i>Lipids are important: Avanti/IUPAB Award lecture</i>		
2:00- 2:30 pm	Closing Ceremony and Awards - The announcement of Awards for poster presentations and 24 <sup>th</sup> Prize for Young Talent in Life Sciences		