IV THEMATIC SYMPOSIUM "FRONTIERS IN PHYSIOLOGICAL SCIENCE" **Department of Physiology and Biophysics** Institute of Biomedical Sciences University of São Paulo

SCIENTIFIC PROGRAM

Wednesday, Ju	ılv	29
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16:00h

Wednesday	, July 29
08:30h	Welcome and openning Fabio Bessa Lima Head Dept. of Physiology and Biophysics, ICB/USP
	Session I - Renal System and Biophysics Chairperson Antonio Carlos Cassola, ICB/USP
09:00h	What animal toxins can teach us about the molecular physiology of sodium channels Paulo Sérgio Lacerda Beirão, UFMG
10:00h	The new(est) genomics revolution Sandro J. de Souza, Ludwig Institute for Cancer Research
10:30h	Interval
11:00h	<i>PKD1</i> haploinsufficiency increases renal damage and leads to microcyst formation following ischemia/reperfusion in mice Luiz Fernando Onuchic, FMUSP
11:30h	The kidney in infeccious diseases: renal pathophysiological aspects Antonio Carlos Seguro, FMUSP
12:00h	Discussion
12:30	Lunch
	Session II - Cardiovascular System Chairperson Lisete Compagno Michelini, ICB/USP
14:00h	Cardiovascular hormone systems in physiology and pathophysiology: Lessons from genetically altered animal models Michael Bader, Max-Delbrück Center for Molecular Medicine (MDC), Berlin-Buch, Germany
15:00h	Dissetecting the functional significance of the neurovascular unit in the brain Jessica Filosa, Dept. of Physiology, Medical College of Georgia, USA
15:30h	Interval

Updated view of the rennin-angiotensin-system

Robson A. Souza dos Santos, ICB/UFMG

16:30h	Stem cell thera	py for systemic	arterial hypertension
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Valdo Jose Dias Silva, UFTM, Uberaba, MG

17:00h **Discussion**

Thursday, July 30

Session III - Neuroscience

Chairperson Andréa da Silva Torrão , ICB/USP

09:00h brain	Segmental genetic aspects in the structure of functional columns of the		
	Luis Puelles, Univ. of Murcia, School of Medicine and CIBERER U736 (Murcia, Spain)		
10:00h	Neural differentiation is followed by aneuploidy in pluripotent stem cells (and vice-versa) Stevens Rehen, ICB, UFRJ		
10:30h	Interval		
11:00h	Not that special: the human brain as a linearly scaled-up primate Suzana Herculano-Houzel, UFRJ		
12:00h	Discussion		
12:30h	Lunch		
	Session IV - Endocrine System Chairperson Fabio Bessa Lima, ICB/USP		
14:00h	Deiodinases allow for tissue-specific control of thyroid hormone action Antonio Carlos Bianco, Div.Endocrinology, Diabetes and Metabolism,Univ. Miami Miller, School of Medicine, USA		
15:00h	Use of genetic tools to identify hypothalamic sites of leptin action on reproductive control. Carol Fuzeti Elias, Div. Hypothalamic Research, Dept. Internal Medicine, Univ. Texas Southwestern Medical Center, Dallas, Texas		
15:30h	Interval		
16:00h	Mitochondrial dysfunction in genetically hyperlipidemic mice Anibal Vercesi, UNICAMP		
17:00h	Discussion		
17:30h	Closing remarks Rui Curi Director Institute Biomedical Sciences, USP		