

# The 3rd Human Biology Symposium

- Aging Sciences -

Sep 28 (Sun)

International Conference Room

Aging Sciences			
Chair	Mamiko Sakata	University of Tsukuba	
Chair	Takahiro Kojima	University of Tsukuba	
13:10-13:35	Daniel S. Peeper	Netherlands Cancer Institute	In vivo RNAi dropout screens for cancer drug target discovery
13:35-14:00	Mamiko Sakata-Yanagimoto	University of Tsukuba	Premalignant and disease-specific mutations in age-related hematologic malignancies
14:00-14:25	Liran Shlush	University Health Network	Preleukemia clonal hematopoiesis and the aging bone marrow
14:25-14:50	Yukio Nagasaki	University of Tsukuba	Development of redox polymer nanomedicine for anti-aging treatments
14:50-15:15	Naoki Yoshimura	University of Pittsburgh School of Medicine	Age-related urinary bladder dysfunction: involvement of the angiotensin II receptor system
15:15-15:40	Hiromitsu Negoro	Kyoto University	Coordination of day-night changes in urination by the circadian clock
15:40-15:55	Coffee Break		
Chair	Yu Hayashi	University of Tsukuba	
Chair	Kaspar Vogt	University of Tsukuba	
15:55-16:20	Joseph S. Takahashi	University of Texas Southwestern Medical Center	Molecular architecture to the circadian clock in mammals
16:20-16:45	Joseph Bass	Northwestern University	Epigenetic regulation by the molecular clock-sirtuin pathway
16:45-17:10	Yu Hayashi	University of Tsukuba	How the brain generates REM sleep
17:10-17:35	Emmanuel Mignot	Stanford University	Narcolepsy and genetic predisposition
17:35-18:00	Ravi Allada	Northwestern University	A conserved bicycle model for circadian clock control of membrane excitability

Sep 29 (Mon)

Hall

Chair	Hisashi Oishi	University of Tsukuba	
Chair	Pleasantine Mill	University of Edinburgh	
9:00-9:25	Pleasantine Mill	University of Edinburgh	Genetic and biochemical characterization of mammalian cilia compartmentalization
9:25-9:50	Hiroaki Nakano	University of Tsukuba	Strange and simple placozoans- 'biologically immortal' animals?
9:50-10:15	Alexander Medvinsky	University of Edinburgh	Mechanisms of haematopoietic stem cell development in mouse and human
10:15-10:30	Coffee Break		
Chair	Hiroshi Suzuki	University of Tsukuba	
Chair	Peter ten Dijke	Leiden University Medical	
10:30-10:55	Peter ten Dijke	Leiden University Medical Center	TGF- $\beta$ receptor signaling in breast cancer cell invasion and metastasis
10:55-11:20	Auro Nomizo	University of Sao Paulo	The role of the thymus in modulating $\gamma\delta$ T cell suppressor activity during experimental <i>Trypanosoma cruzi</i> infection
11:20-11:45	Aristidis Moustakas	Uppsala University	Regulation of cancer stem cell potential by HMGA2, a chromatin regulator of epithelial-mesenchymal transition and biological aging
11:45-12:10	Shu-Chun Teng	National Taiwan University	Telomerase activation in yeast and cancer cells

Sep 30 (Tue)

International Conference Room

Chair	Ryosuke Niwa	University of Tsukuba	
Chair	Tang-Long Shen	National Taiwan University	
9:00-9:25	Ryosuke Niwa	University of Tsukuba	Steroid hormones and aging: lesson from the fruit fly <i>Drosophila melanogaster</i>
9:25-9:50	Klaus Hartfelder	University of Sao Paulo	<i>Long live the queen</i> – the molecular and endocrine underpinnings of the reproduction/lifespan paradox in social insects
9:50-10:15	Yuko Shimada-Niwa	University of Tsukuba	Nutrient-dependent regulation of steroid hormone biosynthesis in the puberty of fruit fly <i>Drosophila melanogaster</i>
10:15-10:40	Pierre Trifilieff	University of Bordeaux	Impact of n-3 polyunsaturated fatty acid deficiency on mesoaccumbens dopaminergic transmission and motivation: relevance for the negative symptoms of schizophrenia
10:40-10:55	Coffee Break		
Chair	Masayuki Matsumoto	University of Tsukuba	
Chair	Jacques Micheau	University of Bordeaux	
10:55-11:20	Andreas Zimmer	University of Bonn	$\Delta^9$ -THC restores age-related changes in the brain
11:20-11:45	Jacques Micheau	University of Bordeaux	Effects of acute stress on memory processes
11:45-12:10	Masayuki Matsumoto	University of Tsukuba	Midbrain dopamine neurons are divided into anatomical subgroups encoding distinct signals
12:10-12:35	Vincent Douset	University of Bordeaux	Imaging of iatrogenic dysimmunity
12:35-13:00	Elena Avignone	University of Bordeaux	Activation of microglia impacts their directional motility

Sep 30 (Tue)

International Conference Room

Chair	Emiko Noguchi	University of Tsukuba	
Chair	Han-Yi E. Chou	National Taiwan University	
13:30-13:55	Renata Rosito Tonelli	Federal University of Sao Paulo	Post-translational modification by small ubiquitin-modifier SUMO in the cell biology of <i>Giardia lamblia</i>
13:55-14:20	Michael Kann	University of Bordeaux	Interaction of small viral capsids with the nuclear pore - they are no classical cargo
14:20-14:45	Bela Gyurcsik	University of Szeged	Novel 'in situ' preparation of zinc finger nucleases based on Ni(II)-induced specific hydrolysis of proteins
14:45-15:10	Kyoko Yokomori	University of California, Irvine	Real time analyses of the DNA damage response in mammalian cells
15:10-15:35	Emiko Noguchi	University of Tsukuba	Identification of disease-causing variants using next generation sequencing
15:35-15:50	Coffee Break		
Chair	Takashi Mizuhiki	University of Tsukuba	
Chair	Erick L. Bastos	University of Sao Paulo	
15:50-16:15	Erick Leite Bastos	University of Sao Paulo	Biocompatible antiradicals inspired by fluorescent flowers
16:15-16:40	Frank Herbert Quina	University of Sao Paulo	The Anthocyanins: plant pigments with multiple functions in nature
16:40-17:05	Ali Mortazavi	University of California, Irvine	Genome-wide remodeling of long-range interactions during skeletal muscle differentiation
17:05-17:30	Fernando B. Da Costa	University of Sao Paulo, Ribeirao Preto	Metabolomics and in silico tools in the search of natural compounds from plants with anti-inflammatory potential
17:30-17:55	Arthur D. Lander	University of California, Irvine	Design principles of biological growth control