

Program:**Nov.****24AM**

08:30-09:30 Registration

09:30-09:40 Introduction (I)

Session I

09:40-10:10

Kiyokazu Agata (Kyoto Univ.)

Wound Healing/Skin Regeneration

Chair: Atsushi Kawakami

Enrique Amaya (The Univ. of Manchester)

An Essential Role of ROS during Tissue Repair and Appendage Regeneration in *Xenopus*
Coordinated Activation of Wnt in Epithelial and Melanocyte Stem Cells Initiates Pigmented Hair Regeneration

10:10-10:40

Makoto Takeo (New York Univ.)

10:40-11:00 *Coffee Break***Session II**

11:00-11:30

Heart RegenerationChair: Takashi Takeuchi
Cellular Basis of Regeneration

Juan Carlos Izpisúa Belmonte (Salk Inst.)

Spatiotemporal Distribution of Proliferating Cardiomyocytes in the Regeneration of Newt Hearts
Cell Sheet Tissue Engineering for Clinical Application

11:30-12:00

Toshinori Hayashi (Tottori Univ.)

12:00-12:30

Teruo Okano (Tokyo Women's Medical Univ.)

Nov. 24PM12:30-13:30 *Lunch***Session III**

13:30-14:00

Retinal RegenerationChair: Chikafumi Chiba
Retinal Regeneration in Amphibians

Masasuke Araki (Nara Women's Univ.)

Self-Organization of Neural Patterns and Structures in 3D Culture of ES Cells
Retinal Regeneration - Intrinsic Progenitor Cells vs Grafted Cells

14:00-14:30

Yoshiki Sasai (RIKEN CDB)

14:30-15:00

Masayo Takahashi (RIKEN CDB)

15:00-15:15 *Coffee Break***Session IV**

15:15-15:45

Brain Regeneration

Chair: Yusuke Kamachi

Yoshihiko Umesono (RIKEN CDB)

Brain Regeneration in the Planarian *Dugesia japonica*
Development of Strategies for Future Brain Therapy: Lessons from Planarian and Newt Brain

15:45-16:15

Takeshi Inoue (Kyoto Univ.)

Chair: Masaaki Kitada

16:15-16:30 *Coffee Break*

16:30-17:00

András Simon (Karolinska Inst.)

Reversible Suppression of Neurogenesis in the Adult Vertebrate Brain

17:00-17:30

Hideyuki Okano (Keio Univ.)

Regeneration of the damaged CNS using human iPSCs-derived neural progenitor cells

17:30-20:30

Poster Session I

Nov. 25AM

08:30-09:00	Registration	Kiyokazu Agata (Kyoto Univ)	Chair: Noriko Funayama
09:00-09:10	Introduction (II)	Session V	
09:10-09:40		Brigitte Galliot (Univ. of Geneva)	From the Stress of Amputation to a 3D Reconstruction in <i>Hydra</i>
09:40-10:10		Thomas W. Holstein (Univ. of Heidelberg)	Wnt Signaling in <i>Hydra</i>
10:10-10:40		Alejandro Sánchez Alvarado (HHMI, Stowers Inst. for Medical Research)	Regeneration
10:40-11:00	<i>Coffee Break</i>		Stem Cells, Regeneration and the Planarian <i>Schmidtea mediterranea</i>
11:00-11:30		Francesc Cebrià (Univ. of Barcelona)	Chair: Emili Salo
11:30-12:00		Kiyokazu Agata (Kyoto Univ.)	The Role of EGFR Signaling during Planarian Regeneration
12:00-12:30		Shigeo Hayashi (RIKEN CDB)	How to Convert Non-regenerative Animals to Regenerative Ones?
			Regeneration of Polychaete Annellide, <i>Perinereis nuntia</i>
			Suggests a Homeogenetic Mechanisms of Sequential Segmentation Involving Wingless

Nov. 25PM

12:30-13:30	<i>Lunch</i>	Session VI	
			Appendage/Limb Regeneration
13:30-14:00			Chair: Takahiko Sato
		Sumihare Noji (Univ. of Tokushima)	Molecular Mechanisms underlying Regeneration of Insect Legs: Involvement of the JAK-STAT and Dachsous-Fat Signaling Pathways
14:00-14:30		Florenci Serras (Univ. de Barcelona)	Regeneration of <i>Drosophila</i> Wing Imaginal Discs
14:00-15:00		Duojia Pan (HHMI, Johns Hopkins Univ.)	Control of Organ Size and Tumorigenesis by the Hippo Signaling Pathway
15:00-15:15	<i>Coffee Break</i>		Chair: Yoshihiro Morishita
15:15-15:45		Eugeniu Nacu (Center for Regenerative Therapies Dresden)	Understanding Patterning in Axolotl Limb regeneration
15:45-16:15		Jeremy Brockes (Univ. College of London)	Tumor Suppressor Genes and Limb Regeneration
16:15-16:30	<i>Coffee Break</i>		Chair: Akira Satoh
16:30-17:00		Hitoshi Yokoyama (Tohoku Univ.)	Limb Regeneration of <i>Xenopus</i> as a Model for Three-dimensional Appendage/ Organ Regeneration
17:00-17:30		Tetusya Endo (Aichi-Gakuin Univ.)	Conceptual Shift of Limb Regeneration –From Amphibians to Mammals-
17:30-20:30			Poster Session II

Nov. 26AM

10:00-12:00	Discussion & future prospects
12:00-12:10	Closing remarks (Kiyokazu Agata)