

## **Poster Presentation at the EMBO | COB Workshop 'Trans-Scale Biology' using exotic non-model organisms**

### **P01 (Marine organisms)**

**Morphological description of neuroid cells present in the choanocyte chambers of marine sponge *Amorphinopsis foetida***

Azraj S. Dahihande (MVP KTHM College Nashik, IN)

*This poster is selected to a short talk in the day 4 (July 28th).*

### **P02 (Marine organisms)**

**Unicellular holozoans elucidate the mechanism of multicellularisation**

Hiroshi Suga (Prefectural University of Hiroshima, JP)

### **P03 (Marine organisms)**

**Single Cell RNA Sequencing Gives Clues for The Developmental Genetic Basis of Syngnathid's Edentulism**

Hope M. Healey (University of Oregon, US)

*This poster is selected to a short talk in the day 1 (July 25th).*

### **P04 (Marine organisms)**

**Distinct stem-like cell populations facilitate functional regeneration of the *Cladonema* medusa tentacle**

Sosuke Fujita (The University of Tokyo, JP)

### **P05 (Marine organisms)**

**Increasing complexity in the nervous system and behavior between stages corresponds to the transition in neuronal genes expression in marine parasitic worm**

Oleg Tolstakov (Michael Sars Center University of Bergen, NO)

*This poster is selected to a short talk in the day 4 (July 28th).*

### **P06 (Marine organisms)**

**Development of *Hypselodoris festiva* (Nudibranchia: Chromodorididae) with Emphasis on Juvenile Stages**

Makiko Hayashi (University of Tsukuba, JP)

**P07 (Marine organisms)**

**Analysis of foot extension/retraction of the clam *Calyptogena okutanii* by MRI, CT and light microscopy**

Yoshiteru Seo (National Institute for Physiological Sciences, JP)

**P08 (Marine organisms)**

**On the origin of appetite: GLWamide in jellyfish represents an ancestral satiety neuropeptide**

Vladimiro Thoma (Tohoku University, JP)

*This poster is selected to a short talk in the day 1 (July 25th).*

**P09 (Marine organisms)**

**Leveraging negative epistasis in *Xiphophorus* interspecies hybrids for disease research**

Yuan Lu (Texas State University, US)

**P10 (Regeneration and aging)**

**Biorhythms, their impact on aging, lifespan, and model organisms for these studies**

Valeriy Golub (Laboratory of zoological production, UA)

**P11 (Regeneration and aging)**

**Cdc42 plays opposite roles in different exocrine tissues**

Akiko Shitara (Asahi University, JP)

**P12 (Regeneration and aging)**

**Trans-scale Pharmacology Identified TELO2 as a Target Molecule for a Wnt/ $\beta$ -catenin Pathway Inhibitor**

Naoyuki Nishiya (Iwate Medical University School of Pharmacy, JP)

**P13 (Regeneration and aging)**

**Investigation of the Novel Function of Fibrinogen Using Knockout Medaka (*Oryzias latipes*)**

Qi Meng (Nagoya University, JP)

**P14 (Regeneration and aging)**

**Tenascin-C-enriched regeneration-specific extracellular matrix guarantees superior muscle regeneration in *Ambystoma mexicanum***

Ayaka Ohashi (Okayama University, JP)

*This poster is selected to a short talk in the day 1 (July 25th).*

**P15 (Regeneration and aging)**

**The mechanism to integrate anterior, posterior, dorsal, and ventral positional information within a blastema in axolotl limb regeneration**

Sakiya Yamamoto (Okayama University, JP)

**P16 (Regeneration and aging)**

***Shh* and *Fgf8* Expression Patterns and Cell Distribution in Axolotl Limb Blastema with Various Sizes**

Saya Furukawa (Okayama University, JP)

**P17 (Regeneration and aging)**

**Different role of liver-derived and ovarian-derived ZP proteins in egg envelope formation in medaka *Oryzias latipes***

Kaori Sano (Josai University, JP)

**P18 (Regeneration and aging)**

**Toward understanding of the molecular and neuronal basis of diversified sexually selected traits in Sulawesian medaka fishes**

Satoshi Ansai (Kyoto University, JP)

**P19 (Regeneration and aging)**

**Investigation of tumorigenesis in amphibian newts**

Toshinori Hayashi (Hiroshima University, JP)

**P20 (Regeneration and aging)**

**Specificity of dendritic spine morphology in primate prefrontal cortex pyramidal cells**

Tetuya Sasaki (University of Tsukuba, JP)

**P21 (Regeneration and aging)**

**Identification of Key Factors for Heat tolerance: Genome Sequencing and Gene Expression Analysis of “Hot-spring Frog” *Buergeria japonica***

Takeshi Igawa (Hiroshima University, JP)

**P22 (Regeneration and aging)**

**A draft genome assembly of an outbred newt, *Pleurodeles waltl* to decipher the genetic code of remarkable regeneration capability**

Ken-ichi T. Suzuki (National Institute for Basic Biology, JP)

**P23 (Regeneration and aging)**

**The interspecies divergence of sexual characteristics in teleost fish could depend on differences in *sonic hedgehog* expression induced by androgen**

Yukiko Ogino (Kyushu University, JP)

**P24 (Regeneration and aging)**

**Identifying the Light-Wavelengths of Response in Fibroblast using Gene Expression Variation**

Hiroyuki Yamamoto (Aichi Shukutoku University, JP)

**P25 (Regeneration and aging)**

**Virtue is in the “E-gill-ibrium”: disentangling connections among fate-restricted adult stem cells in medaka**

Javier Vazquez-Marin (Heidelberg University, DE)

*This poster is selected to a short talk in the day 4 (July 28th).*

**P26 (New model plants)**

**Investigating The Role Of MADS-Box Protein Binding in The Evolution of Seeds and Flowers.**

Derry Carr (The University of Birmingham, UK)

*This poster is selected to a short talk in the day 1 (July 25th).*

**P27 (New model plants)**

**Poacic acid inhibits pollen germination and pollen tube growth by affecting intracellular membrane traffic.**

Nanami Kobayashi (Niigata University, JP)

**P28 (New model plants)**

**Auxin methylation in root nodule symbiosis**

Takashi Goto (National Institute for Basic Biology, JP)

**P29 (New model plants)**

**Blue-green light inhibits the biosynthesis of a unique photosynthetic carotenoid in the marine macrogreen alga *Codium fragile***

Ritsuko Fujii (Osaka Metropolitan University, JP)

**P30 (New model plants)**

**Morphological Changes and Gene Expression Patterns during Adventitious Shoot Formation in Ipecac**

Karin Okazaki (Toyo University, JP)

**P31 (New model plants)**

**SCoT Based SCAR Markers for Spiciness Detection in Chili Pepper (*Capsicum frutescens* L.)**

Estri L. Arumingtyas (Brawijaya University, ID)

**P32 (New symbiosis models)**

**A Multi-partner Symbiotic System in the Eusocial Aphid *Ceratovacuna japonica***

Shunta Yorimoto (National Institute for Basic Biology, JP)

*This poster is selected to a short talk in the day 3 (July 27th).*

**P33 (New symbiosis models)**

**Somatic polyploidy in symbiosis and eusociality: exploring its dynamics and functional roles**

Tomonari Nozaki (National Institute for Basic Biology, JP)

**P34 (New symbiosis models)**

**Molecular function of invertebrate-type lysozyme in aphid endosymbiosis**

Shinichi Yoda (National Institute for Basic Biology, JP)

**P35 (New symbiosis models)**

**Synthetic Peptide Nucleic Acids in Action: *In Vivo* Interference of pea aphid endosymbiont *Buchnera aphidicola's groEL* Gene**

Kathrine X.Y. Tan (National Institute for Basic Biology, JP)

**P36 (New symbiosis models)**

**The evolutionary transition of facultative bacterial endosymbionts towards a co-obligate lifestyle in scale insects**

Pradeep Palanichamy (Okinawa Institute of Science and Technology Graduate University, JP)

**P37 (New technologies)**

**Assessment of limonene toxicity against Zebrafish and *in-vitro* antifungal studies on *Candida albicans***

Saiema Ahmedi (Jamia Millia Islamia, IN)

**P38 (New technologies)**

**Stem Cells Lineage Reconstruction in the Adult Planarian using Single Cell Transcriptomics**

Sophie Peron (Oxford Brookes University, UK)

*This poster is selected to a short talk in the day 2 (July 26th).*

**P39 (New technologies)**

**Spatial Transcriptomic analyses of non-model organisms at the National Genomics Infrastructure in Sweden**

Xesus M. Abalo (National Genomics Infrastructure of Sweden, SE)

**P40 (New technologies)**

**Human Induced Pluripotent Stem Cells Culturing and Differentiation using Gravity-Driven Microfluidic**

Nuttakrit Limjanthong (Nagaoka University of Technology, JP)

**P41 (New technologies)**

**Assessing Statistical Reliability of Saliency Maps in Deep Learning-based Visual Recognition**

Yoko Tomizawa (Exploratory Research Center on Life and Living Systems, JP)

**P42 (New technologies)**

**Beyond Cholesterol: De Novo Phytosterol Synthesis in Animals**

Dolma Michellod (Max Planck Institute for Marine Microbiology, DE)

*This poster is selected to a short talk in the day 2 (July 26th).*

**P43 (New technologies)**

**Enhancing DNA Purification Using Spin Column for PCR Detection of Porcine (*Sus scrofa*)**

Joni K. Koemoro (Brawijaya University, ID)

**P44 (New technologies)**

**New Insights into the Retrograde F-actin Flow Associated Motions of Talin Visualized by Single-Molecule Speckle Microscopy**

Sawako Yamashiro (Kyoto University, JP)

**P45 (Arthropods)**

**Host Gene Expression Changes and Ecological Characteristics Induced by Male-killing Virus**

Takumi Takamatsu (Tokyo University of Agriculture and Technology, JP)

**P46 (Arthropods)**

**Exploring the Genetic Basis of Structural Color Variation in *Phelotrupes auratus***

Yusuke Nakatani (Kyushu University, JP)

**P47 (Arthropods)**

**A 5' UTR-overlapping lncRNA controls environmental sex determination in the freshwater crustacean *Daphnia magna***

Yasuhiko Kato (Osaka University, JP)

*This poster is selected to a short talk in the day 3 (July 27th).*

**P48 (Arthropods)**

**DNA methyltransferase 3.1 controls energy allocations during starvation in the freshwater crustacean *Daphnia magna***

Nikko Adhitama (Osaka University, JP)

**P49 (Arthropods)**

**Effects of Amino Acid Variants in the Viral Membrane Protein GP64 of *Bombyx mori* nucleopolyhedrovirus at Multiple Biological Scales**

Masanao Sato (Hokkaido University, JP)

**P50 (Arthropods)**

**An Efficient Gene Knock-in Strategy Using 3'-modified DNA Donor in Emerging Model Insects**

Taro Nakamura (National Institute for Basic Biology, JP)

**P51 (Arthropods)**

**Development of an Innovative Method for Insect Genome Engineering by Adult Injection**

Yu Shirai (Kyoto University, JP)

**P52 (Arthropods)**

**A Study of Asymmetrical Head Morphology in *Doubledaya bucculenta***

Hiroki Oda (Nagoya University, JP)