

# OIST-Kyudai Joint Symposium Series 1: Bio-Inspired Wonders and Energy Innovations

## Poster Session / Details

Theme	Poster No.	Name	Title
<b>Nature/Bio-inspired (Engineering) Themes</b>	K-1	Natsuko Hamamura	Exploring microbe-mineral interactions and biotransformation of toxic metalloids for potential application in metal-biotechnology
	K-2	Mikita Suyama	Searching for causative mutations of genetic disorders focusing on splice-site-creating mutations
	K-3	Seiji Arakaki	Introduction of the Amakusa Marine Biological Laboratory as a field center for ecological studies on coastal environments
	K-4	Koji Shimoyama	Data-driven and data-informed design of fluid machinery
	O-1	Georgii Karelin	Cheerios effect and agitation lead to self-assembly of macroscopic patterns
	O-2	Jack Featherstone	Prey Capture Mechanisms of Latrodectus Spider Webs
	O-3	Maria Lucia Reyes Suarez	REPRODUCTION PATTERNS OF MARINE FISHES FROM LARGE MARINE ECOSYSTEMS (LMEs) IN JAPAN
	O-4	Yoshiki Ochiai	Suprem: An engineered non-site-specific m6A RNA methyltransferase with highly improved efficiency
	O-5	Tamara Iakimova	Surface imprinted polymers based on 3D printing resin for selective bacteria detection
	O-6	Rikako Ozaki	Two is better than one: evidence of trophic separation in threatened mobulid rays in Aotearoa New Zealand
<b>Energy and Sustainability (Materials, Chemistry, Energy) Themes</b>	K-5	Ryo Ohtani	Functional cyanido-based solid state materials consisting of tetracyanometallate units
	K-6	Naoki Tanaka	Doping strategy of single-walled carbon nanotube films for thermoelectric generators
	K-7	Ryotaro Aso	Nanoscale analysis by using advanced electron microscopy
	K-8	Toshinori Matsushima	Halide perovskites for optoelectronics applications
	K-9	Ken Onda	Time-resolved Spectroscopic Studies on Fundamental Processes in Photofunctional Materials
	K-10	Shigenori Fujikawa	Free-standing nanomembranes for CO2 capture directly from the air
	O-7	Ayumu Karimata	Triboluminescence of blend film with commonly available luminophores and polymers
	O-8	Fathy Hassan	Bioinspired Photonic Materials from Cellulose and Functionalization by Photochromic Molecular Switch
	O-9	Nivedha Velmurugan	One-pot C-H Arylation and Ring Closure of Benzofurans at Room Temperature
	O-10	Satoshi Takebayashi	Formal 21-electron cobaltocene and 20-electron ferrocene derivatives
	O-11	Sayan Mitra	Spectrum of Electrical Consumer Load Fluctuations
	O-12	Samy Lakhel	Turbulence and wind power production
	O-13	Hirokazu Maruoka	Impact-induced hardening on suspension of large particles
<b>Cross-disciplinary Themes</b>	K-11	Takeshi Yanagida	Robust Artificial Olfactory Systems by Designing Metal Oxide Nanostructures and Interfaces
	K-12	Kazutoshi Kato	Terahertz wave generation and its application
	K-13	Kazuya Saito	Bioinspired Deployable Structures
	K-14	Haruichi Kanaya	Battery-less Sensor Platform
	K-15	Ayato Kanada	Woodpecker's Tongue-inspired Manipulator
	K-16	Fujio Tsumori	Biomimetic Engineering: Functional Surfaces and Soft-robots
	O-14	Hiroaki Sako	miRNAs slow translating ribosomes to prevent misfolding