

Unit Name

Computational Neuroethology Unit

Collaborations

Professor Tom Bourguignon, OIST, Japan, Termite behavior
Professor Greg Stephens, Vrije Universiteit Amsterdam/OIST, Japan, Squid collective behavior
Dr. Rebecka Sepela/Dr. Pablo Villar del Rio, Harvard University, USA, Octopus chemosensation
Professor Nick Bellono, Harvard University, USA, Octopus chemosensation
Dr. Xitong Liang, MPI for Brain Research, Germany, Cuttlefish Camouflage Dynamics
Dr. Dominic Evans, MPI for Brain Research, Germany, Cuttlefish Camouflage Dynamics
Ms. Theodosia Woo, MPI for Brain Research, Germany, Cuttlefish Camouflage Dynamics
Professor Gilles Laurent, MPI for Brain Research, Germany, Cuttlefish Camouflage Dynamics
Professor Vincent Laudet, OIST, Japan, Clownfish behavior
Professor Simone Pigolotti/Dr. Robert Ross, OIST, Japan, Cephalopod skin as growing active matter
Dr. Leenoy Meshulam, University of Washington, USA, Cephalopod Physiology
Dr. Gustavo Sanchez, OIST, Japan, Cephalopod Genetics
Dr. Nobuaki Mizumoto, OIST, Japan, Termite behavior
Professor Dan Rokhsar, OIST, Japan, Cephalopod Genetics

Research Personnel

Dr. Tomoyuki Mano, Postdoctoral Scholar
Dr. Makoto Hiroi, Staff Scientist
Ms. Chie Edwards, RUA
Ms. Van Dinh, Research Unit Technician
Mr. Yutaka Kojima, Research Unit Technician
Dr. Alex Harston, JSPS Postdoctoral Fellow
Dolezalova Lada, OIST Student
Fernandez Olivier, OIST Student
Tsaridis Konstantinos, OIST Student
Pophale Aditi Sunil, OIST Student
Beraud Anouk, OIST Student

Scholarly Contributions and Creative Productions (by Faculty)

Journal Article

1. Reiter, S. A.
Son of a Beach: Coastal Development and the Loss of Natural Beaches over Time (1919 to 2018) on Okinawa Island, Southern Japan.. Marine Pollution Bulletin 2025, 117459.

Presentation at Conference

1. Reiter, S. A.
Cellular Diversity in the Visual Learning and Memory System of Cephalopods. CephNeuro 2024 2024.
2. Reiter, S. A.
Methodologies for Exploring Cephalopod Anatomy and Physiology at Cellular Resolution. CephNeuro 2024 2024.
3. Reiter, S. A.
Internal Models in Sepiotheutis Lessonana during Prey Hunting. CephNeuro 2024 2024.
4. Reiter, S. A.
Revealing the Hierarchical Organization of the Optic Lobe. CephNeuro 2024 2024.

Scholarly Contributions (by Unit Members)

Name of Unit Member	Type	Title	Outlet	Publisher	Year Pub
Tomoyuki Mano	Journal Article	The activation of the piriform cortex to lateral septum pathway during chronic social defeat stress is crucial for the induction of behavioral disturbance in mice		Neuropsychopharmacology	2024
Tomoyuki Mano	Journal Article	Cortical parvalbumin neurons are responsible for homeostatic sleep rebound through CaMKII activation	Nature	Nature Communications	2024
Tomoyuki Mano	Poster Presentation at Conference	Revealing the hierarchical organization of the optic lobe	The 47th Annual Meeting of the Japan Neuroscience Society, Fukuoka, Japan		
Tomoyuki Mamo	Presentation at Conference	アオリイカの視葉における階層的視覚情報処理	Japan Cephalopod Research Workshop, Shimane, Japan (第7回日本イカタコ研究会)		
Masucci, Giovanni	Presentation at Conference	On the evolution and ecology of azooxanthellate cave-living Palythoa spp. van den Eeckhout	European Coral Reef Symposium - ECRS 2024		
Tomoyuki Mamo	Presentation at Conference	アオリイカの視葉における階層的視覚情報処理	NIPS Extreme Environment Adaptation Workshop,		

Name of Unit Member	Type	Title	Outlet	Publisher	Year Pub
			Okazaki (生理学研究 所研究会「極限環境 適応 2024」、岡崎)		
Tomoyuki Mamo	Presentation at Conference	Revealing the hierarchical organization of the optic lobe	The 1st Cephalopod Neuroscience Conference, Woods Hole, United States		
Tomoyuki Mano	Presentation at Conference	Hear the squid neurons sing	211th WPI-IIIS Seminar, Tsukuba, Japan		

Outreach Activities (For Unit Members Only)

2024-10-01	Tomoyuki Mano, "Sekai no Nanda Kore: Mystery" (broadcasted on 2024/10/23), Fuji TV Station
2024-10-01	Tomoyuki Mano, Science Tech Festival in Ishigaki (Neuroscience workshop for elementary school children), OIST
2024-10-01	Tomoyuki Mano, OIST Science Trip in Ishigaki island @Yaeyama High School, OIST
2024-07-01	Tomoyuki Mano, OIST Marine Day Kids Lecture: Exploring Secrets of Cephalopods, OIST

Workshops and Seminars (Organized and Hosted by Faculty/Units)

Speaker Name(s)	Title	Location	Co-Organizers	Date
Dr. Matteo Santon, Research Fellow, University of Bristol	Stealth and deception: motion camouflage in hunting cuttlefish	F01, Lab4, OIST		2024-12-13
Dr. Martin How, Senior Lecturer, School of Biological Sciences, Animal Behavior and Sensory Biology, University of Bristol	Polarization vision in crustaceans and cephalopods	F01, Lab4, OIST		2024-12-13
Dr. Ahmed El Hady, Group Leader, Center for Advanced Study of Collective Behavior and Max Planck Institute	Mechanistic theory of foraging	L5D23 , OIST	OIST's Visiting Program (TSVP)	2024-11-27
Selected Speakers	Themed-How brains lean	OIST		2024-10-01
Dr. David L Stern, Senior Group Leader, Janelia Research Campus	Aphid effector proteins in plant gall induction and agriculture	F01, Lab4, OIST		2024-09-02
Jing Cai	Emergent properties: From squid visual systems to human language representation	Seminar Room L4F01, OIST		2024-04-01