The OIST Experiment

Building a World-Class Scientific Research University

OKINAWA INSTITUTE OF SCIENCE AND TECHNOLOGY GRADUATE UNIVERSITY 沖縄科学技術大学院大学



Interdisciplinary research university

offering a 5-year PhD program in science

All education and research is conducted entirely in English



79 Faculty Members II 79 Research Units 62% International



453 Researchers 55% International



Nature Index ranked OIST <u>#1 in Japan</u>, and <u>#9 in the world</u> for scientific quality

Norma rar		Share rank	Institution	Normalized Share 2018	Nature Index Share 2018	Dimensions natural science articles 2018	Nature Index Count 2018
1		347	Cold Spring Harbor Laboratory (CSHL), United States of America (USA)	0.17250	31.74	184	80
2	2	56	Weizmann Institute of Science (WIS), Israel	0.15298	173.17	1132	390
3	}	415	Institute of Science and Technology Austria (IST Austria), Austria	0.15039	23.61	157	55
4	Ļ	430	Institute for Advanced Study (IAS), United States of America (USA)	0.14305	23.03	161	70
5	5	289	Brandeis University, United States of America (USA)	0.12787	42.71	334	119
6	6	155	The Rockefeller University, United States of America (USA)	0.12611	83.36	661	276
7	7	422	Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), India	0.11890	23.42	197	34
8	}	38	Swiss Federal Institute of Technology Lausanne (EPFL), Switzerland	0.11413	219.92	1927	542
9)	360	Okinawa Institute of Science and Technology Graduate University (OIST), Japan	0.10940	29.76	272	65
1(0	25	Princeton University, United States of America (USA)	0.10903	282.39	2590	712

Source: Nature Index 2019. Vol. 570 No. 7761.

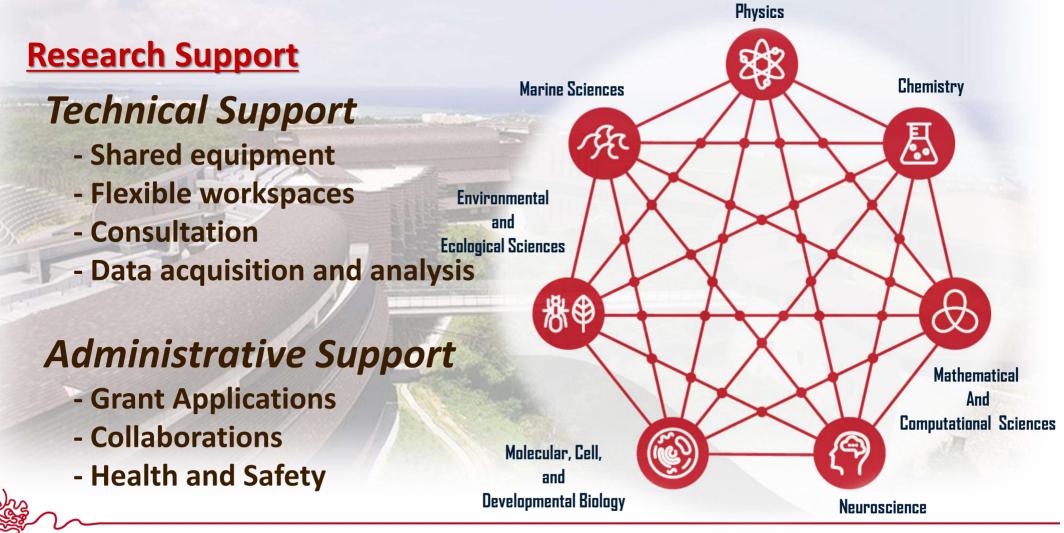
Rankings are based on proportion of publications in high-quality journals.



World-class Research Environment

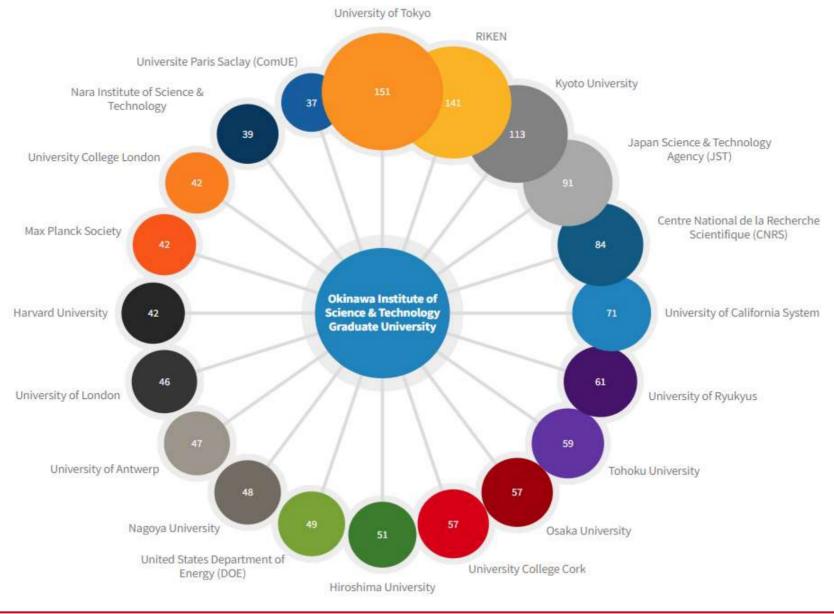
Interdisciplinary Environment

No Departments, No Barriers – boundary-free campus design



Collaborations are actively encouraged

Number of co-authored publications with collaborators outside of OIST 他大学との連携を積極的に推進: 学外研究者との共著論文数



InCites dataset updated Jul 28, 2018. Includes Web of Science content indexed through May 31, 2018.



Marine Sciences

coral farming -Yuna Zayasu (OIST)

Biological Complexity Unit

Computational Neuroethology Unit

Evolution, Cell Biology, and Symbiosis Unit

Evolutionary Neurobiology Unit

Marine Climate Change Unit

Marine Biophysics Unit

Marine Eco-Evo-Devo Unit

Marine Genomics Unit

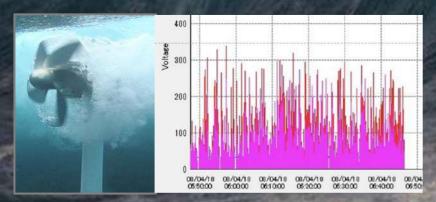




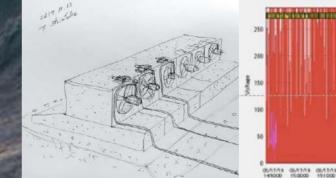


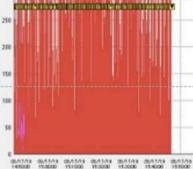
OIST Wave Energy Project Tsumoru Shintake

Ocean Wave possesses tremendous amount of energy, and it will be a perpetual source of renewable energy.



Rotating turbine in the wave





Seawall with integrated Wave Energy Converter

OIST Clownfish Research Tim Ravasi Vincent Laudet

Mechanisms of symbiosis (fish – sea anemone dinoflagellate)

> LUXAQUA AQUARIUM DESIGN & BUILD

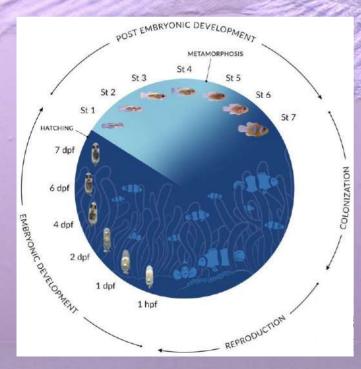


Genomic effects of heat waves on coral reef fishes (adults and larvae) Transgenerational effects



OIST Clownfish Research Tim Ravasi Vincent Laudet

Fish larvae remains the Terra Incognita of marine science



Understanding the adaptation of larvae to their local environment



Understanding how the metamorphosis is triggered and coordinated by hormones

Understanding metamorphosis control the "quality" of the juveniles

50 µm

Fish larvae can serve to monitor underwater construction work

Laboratoire & La

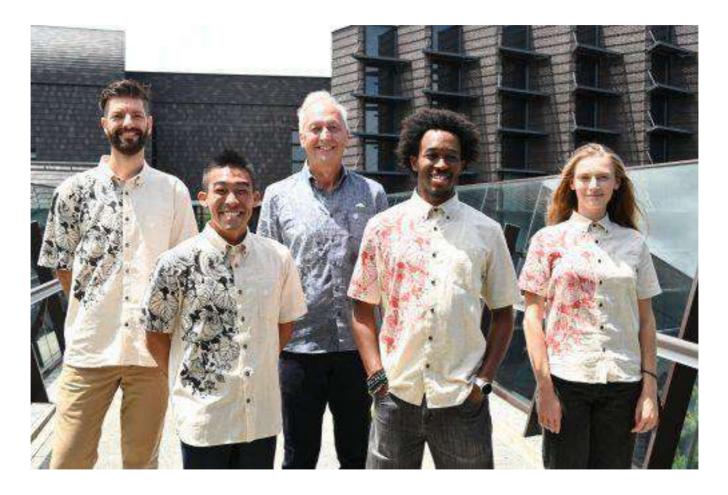


Laurence Besseau et Philippe Lenfant



77.500.0

Third quay construction project



ありがとうございました



OIST

Kariyushi shirts officially replace wearing ties in Okinawa !

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