広島大学 大学院生物圏科学研究科

Graduate School of Biosphere Science HIROSHIMA UNIVERSITY

Kazuhiko Koike, professor



Food and Agriculture Organization of the United Nations

Google Custom Search



2050: A third more mouths to feed

Food production will have to increase by 70 percent - FAO convenes high-level expert forum



Using water more efficiently will be key to produce more food.



12-13 October 2009

Related links

- Global agriculture towards 2050 (discussion paper)
- More background information
- High-Level Expert Forum: How to Feed the World in 2050
- Media accreditation
- World Summit on Food Security

By 2050, need 70% more food and 11% more water, while with efforts to reducing environmental deterioration and combating with climate change.

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Our education and research aims

- **1.** To create and develop sustainable biological production activities in harmony with nature
- 2. To develop technologies for harnessing bioresources and their functions, and applying them to human lives
- 3. To develop technologies for forecasting, controlling, and evaluating recirculation in the biosphere

What We Can Do to Help Resolve Food and Environmental Challenges

Graduate School of Biosphere Science HIROSHIMA UNIVERSITY

Departments	Divisions	Subjects
Bioresource Science	Animal Science	Animal breeding and reproduction
	Aquatic Biology	Fisheries and biochemistry
	Food and Resource Economics	Agricultural marketing
	Field Science in Setouchi Areas	<i>Terrestrial and aquatic field science</i>
Biofunctional Science and	Molecular and Applied Biosciences	Biochemistry and molecular biology
Technology	Food Science and Biofunctions	Food engineering and food nutrition
Environmental Dynamics and	Modelling and Management of Environmental Dynamics	Land-atmoshere-ocean interaction, ecosystem
Management	Assessment of Environmental Dynamics	Plant science and environmental management

Covering a total food production system, from bio-resource production, through processing, until distribution and consumption















Main buildings

Animal farm

Marine station





Main buildings



Experimental equipments



Class-room lectures



Practice (e.g. food engineering)



Chicken breeding facility







Main buildings

Animal farm

Marine station





Animal farm



Practice (e.g. livestock breeding)



Milk production





Companion animal study







Main buildings

Animal farm

Marine station



Electric driven, research vessel Toyoshio-Maru (256 GT)







Main buildings

Animal farm

Marine station



Marine station



Speed boat (Calanus Maru)



Practice and research building



Practice of coastal marine biology

Introductory video



Hiroshima university biosphere science interview

home.hiroshima-u.ac.jp/gsbstop/interview/en/index.html

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Graduate School of Biosphere Science Interview with Professors





Interview with Professors [HOME]

Last Updated : 2017.8.4

Faculty of Applied Biological Science

Graduate School of Biosphere Science



Hidetoshi Saito / Aquatic Ecology



<u>Kazuhiko Takeda / Environmental</u> <u>Chemistry and Environmental Analytical</u> <u>Chemistry Laboratory</u>

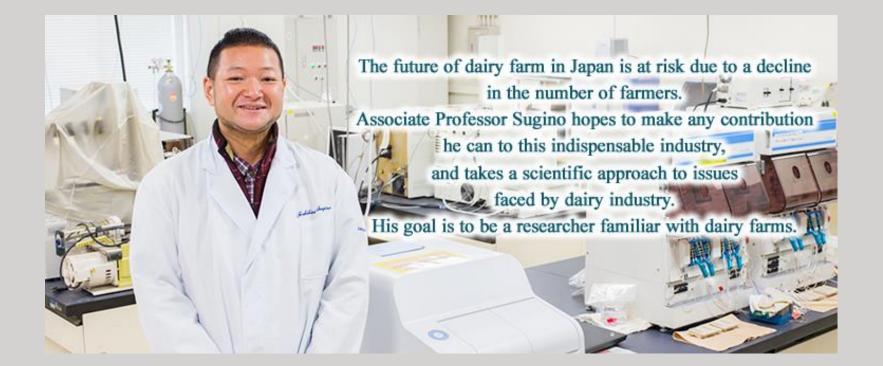


Hiroyuki Horiuchi / Immunobiology

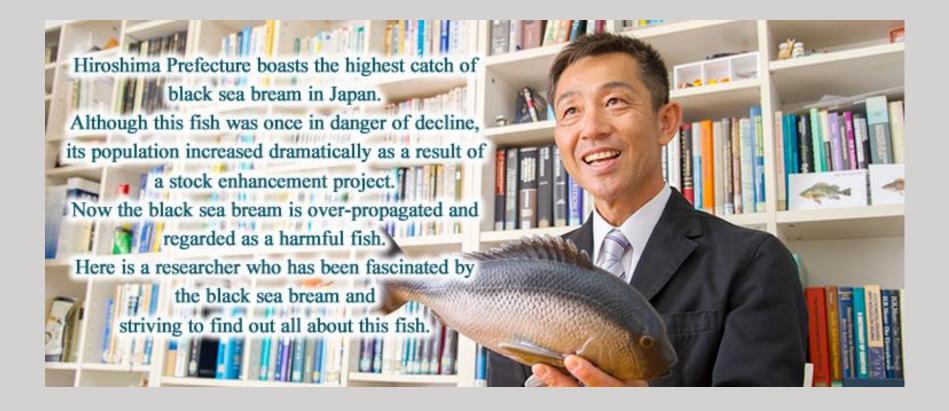


Masahide Nishibori / Animal Breeding and Genetics Laboratory

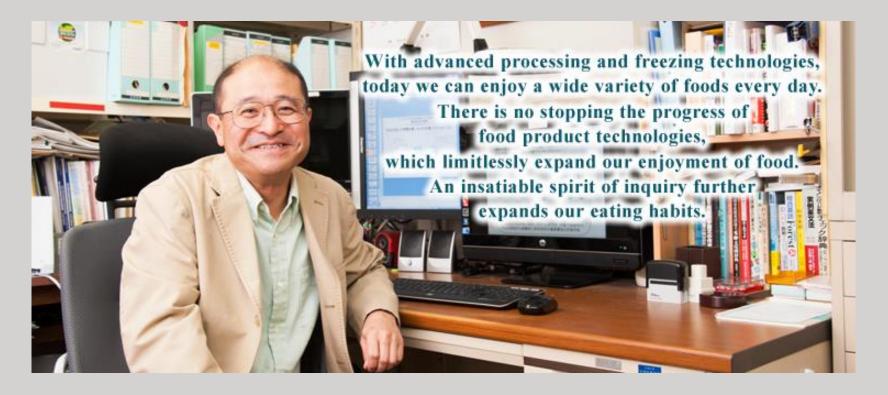




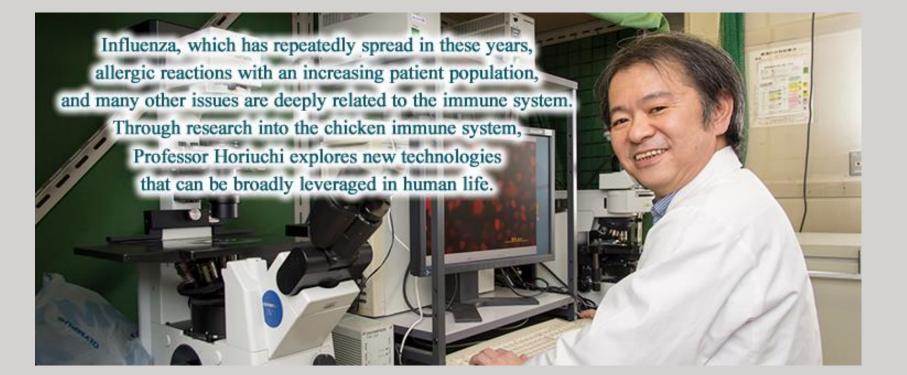


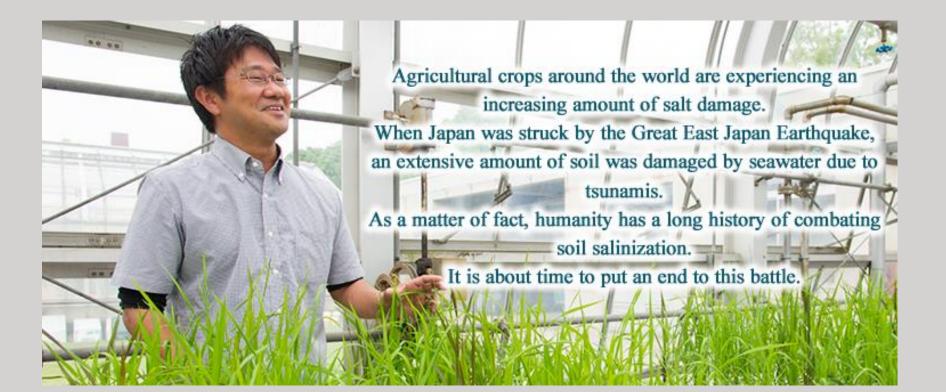
















Not only study but student's life

Why not study with us! At the Graduate School of Biosphere Science