

School of Agriculture and Biology

<http://www.agri.sjtu.edu.cn/eng/>

I . An Introduction to Disciplines and Main Research Fields

School of Agriculture and Biology has five departments: Department of Plant Science, Department of Animal Science, Department of Resources and Environment, Department of Food Science & Engineering, and Department of Landscape Architecture. The school has three doctoral degree programs: Horticulture, Ecology, and Biomedical Engineering, five master's degree programs: Horticulture, Ecology, Zootechny, Food Science & Engineering, as well as Landscape Architecture. It also has Professional Master's Degree Programs in Crop, Horticulture, Plant Protection, Breeding, Rural and Regional Development; Professional Master's Degree Program of Veterinarian, Food Science and Engineering and Master of Engineering (Food Engineering). Additionally, we have two post-doctoral programs in Horticulture and Ecology. From May 2009, the school has been jointly-run by both the Ministry of Education and the Ministry of Agriculture.

Disciplines and Main Research Fields

Disciplines	Degree	Research Fields
Horticulture	Master and PHD	1. Horticultural facilities engineering and technology
		2. Gardening plant physiological ecology
		3. Horticultural plant resources and utilization
Veterinarian	Master	1. Animal Genetics, Breeding and Reproduction Science
		2. Animal Nutrition and Feed Science
		3. Health and epidemic prevention
Landscape Architecture	Master	1. Garden plant physiological and biochemical
		2. Landscape Planning and Design
		3. Botanical garden plant resources and utilization
		4. Landscape ecology and engineering

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Disciplines	Degree	Research Fields
Ecology	Master and PHD	1. Ecological agriculture and ecological environment
		2. Agricultural resources utilization
		3. Plant protection
Food Science and Engineering	Master	1. Food refrigeration engineering
		2. Food Safety
		3. Functional foods
		4. Dairy Science
Food engineering	Full-time professional degree	Any related field
Horticulture		Same as above
Plant protection		Same as above
Breeding		Same as above
Rural and Regional Development		Same as above
Veterinary		Same as above
Landscape Architecture		Same as above
Biomedical Engineering	PHD	Anthropozoonosis
		Animal genomics and bioinformatics
		Biotechnology
		Functional food, food safety

II. Faculty

The approach of talents introduction and providing extensive on-job training have been facilitating the optimization of the faculty structure over the years. At present, there are 217 faculty members in total, 136 full-time teachers, accounting for 63% of the total. Moreover, 37% (50 people) of the faculty are professors and 42% (57 people) are associate professors; 93% (126 people) of teachers have a PhD degree and those who obtained their PhD degrees overseas account for 21% (29 people); 60% (90 people) of teachers have studied abroad for at least one year. The school also boasts of three chair professors of the Thousand Talent Plan, four titles chair professors, two visiting chair professors, one distinguished professor of “Chang Jiang Scholars Program”, two professors of the Thousand Talents Plan (youth) organized by Central Organization Department, one SJTU Honorary Professor, two professors supported by Program for New Century Excellent Talents (NCET) in University, three excellent academic leaders of Shanghai, three professors sponsored by Tang Cornell-China Scholars Program, two experts of the National Modern Agricultural Technology & Industry

System, and two specialists supported by the Nation Charitable Foundations for Agriculture Research.

Ⅲ. Scientific Research

For years, the school has focused on applied research with considerations to both basic and applied researches. From 2011 to 2013, the number of national projects and the sum of scientific research funding have remarkably increased, with the total funding of 210 million yuan, 56 projects (including 2 key projects) supported by the National Natural Science Foundation, 433 research papers have been published in SCI/EI journals, 194 patents (including software copyright) were granted, and 24 new crop varieties registered. The school has won a First Prize of National Award for Science and Technology Progress, two First Prizes for Science & Technology Development of the Ministry of Education, and a Second Prize Science and Technology Progress Award of Shanghai.

From 2003 to the present, 1056 papers have been published in SCI/EI journals, 1780 papers have been published in core journals, 393 patents (including software copyright) have been granted, and 84 Crop Varieties have been registered. The amount of published papers per person was at the forefront of domestic agriculture and forestry universities and institutes.