

RESEARCH TOPICS

List of Research topics in Biology

No.	Research topic	Lecturer	Number of students
1	Study on biofuel production from microalgae	Assoc.Prof.Dr. Nguyen Thi Thu Lien	1
2	Study on secondary compounds production from algae cell biomass, plants and microorganisms	Assoc.Prof.Dr. Nguyen Thi Thu Lien Dr. Hoang Tan Quang	3
3	Study on microbiological fertilizer production from cell biomass, extracts of algae species, and microorganisms	Assoc.Prof.Dr. Nguyen Thi Thu Lien	1
4	Study on production of plant hormones	Assoc.Prof.Dr. Nguyen Thi Thu Lien	1
5	Study on harmful algae, algal toxins and influence of algal toxins on human health, animal and environment	Assoc.Prof.Dr. Nguyen Thi Thu Lien	1
6	Research on genetic diversity	Assoc.Prof.Dr. Truong Thi Hong Hai Dr. Hoang Tan Quang	2
7	Genetic mapping research and QTL analysis	Assoc.Prof.Dr. Truong Thi Hong Hai Dr. Hoang Tan Quang	2
8	Research on conservation, species distribution and biodiversity	Assoc.Prof.Dr. Truong Thi Hong Hai Dr. Hoang Tan Quang	2
9	Research and development of molecular marker and its application in breeding and molecular diagnostics	Assoc.Prof.Dr. Truong Thi Hong Hai Dr. Hoang Tan Quang	2
10	Study on physiological traits of plants	Dr. Hoang Tan Quang	1
11	Gene sequencing and genomic analysis	Dr. Nguyen Hoang Bach	1
12	Identification of antigenic proteins from pathogenic microorganism	Dr. Nguyen Hoang Bach	1

13	Research and application of biotechnology in treatment of aquaculture wastewater, control of environment and aquatic epidemics, production of aquatic feeds	Dr. Le Cong Tuan	3
14	Research on production of recombinant protein/enzyme used in agriculture and environmental protection	Dr. Hoang Tan Quang Dr. Nguyen Duc Huy Dr. Nguyen Xuan Huy	3
15	Study on biological materials	Dr. Nguyen Thanh Tung	1
16	Research on isolation and culture of stem cells	Dr. Nguyen Thanh Tung	1
17	Study on disease mechanism on animal models	Dr. Nguyen Thanh Tung	1
18	Study on morphological variability and genetics	Assoc.Prof.Dr Tran Quoc Dung Dr. Hoang Tan Quang	2
19	Edible vaccine	Dr. Nguyen Xuan Huy	1
20	Production of recombinant protein from transgenic rice cell suspension culture	Dr. Nguyen Xuan Huy	1
21	RNAi technology to knock down genes coding effector of <i>Meloidogyne graminicola</i> in rice	Dr. Nguyen Xuan Huy	1

List of Research topics in Organic agriculture

No.	Research interest	Lecturer	Research topic	Number of students
1	<p>Biological control of plant pests</p> <p>Biology and ecology of pests and their natural enemies</p> <p>Insect resistant varieties</p> <p>Integrated pest management (IPM)</p> <p>Herbal medicine to control pests</p> <p>Adapting and mitigating climate change in crop production</p>	<p>Prof.Dr. Tran Dang Hoa (tdanghoa@hueuni.edu.vn)</p>	<p>Study on using natural enemies as biological control agents to control insect pest in Organic agriculture</p> <p>Study on integrated pest management based on ecology in Organic agriculture</p> <p>Study on natural products and botanical pesticides in Organic agriculture</p>	3
2	<p>Plant nutrition</p> <p>Soil fertility</p> <p>Soil environment</p> <p>Environmental impact assessment</p>	<p>Prof.Dr. Hoang Thi Thai Hoa (hoangthithaihoa@huaf.edu.vn)</p>	<p>Soil fertility and fertilizer management in organic agriculture</p>	1
3	<p>Production of organic fertilizer, micro organic fertilizer</p> <p>Impact of organic fertilizers on productivity and quality of vegetables, fruit trees and short-term industrial crops</p> <p>Breeding disease-resistant varieties used in organic agricultural production</p>	<p>Assoc.Prof.Dr. Truong Thi Hong Hai (tthhai@hueuni.edu.vn)</p>	<p>Soil fertility and fertilizer management in organic agriculture</p> <p>Soil fertility and fertilizer management in organic agriculture</p> <p>Soil fertility and fertilizer management in organic agriculture</p>	3

No.	Research interest	Lecturer	Research topic	Number of students
4	Aquaculture Environmental and waste management in aquaculture	Assoc.Prof.Dr. Nguyen Duy Quynh Tram (nguyenduyquynhtram@huaf.edu.vn)	Utilization of Herbs in aquaculture Investigation and application the probiotics in aquaculture	2
5	Research on application of biological products to inhibit ethylene biosynthesis, which aim to reduce the damage rate and prolong the preservation time of vegetables after harvest to serve domestic consumption and export Synchronized scientific and technological solutions in preserving and processing some agricultural products to ensure food safety standards	Assoc.Prof.Dr. Nguyen Van Toan (nguyenvantoan@huaf.edu.vn)	Research on application of biological products to inhibit ethylene biosynthesis which aim to reduce the damage rate and prolong the preservation time of vegetables after harvest to serve domestic consumption and export Synchronized scientific and technological solutions in preserving and processing some agricultural products to ensure food safety standards	2
6	Soil minerals Adsorption and desorption of soil nutrition Soil erosion and degradation; improvement solution for soil fertility Soil nutrition kinetic	Dr. Nguyen Ho Lam (nguyenholam@huaf.edu.vn)	Adsorption and desorption of soils nutrition Development recovery and improvement solutions for soil recession The relationship between physical and chemical characteristics, soil nutritions, development growths, crop	4

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	Relationship between soil nutrient and growth, development, crop yield.		yields (medicinal materials) Utilization agriculture residues for soil fertility improvement	
7	Soil and fertilizer Organic agriculture Tourist in agriculture Sustainable agricultural land use planning Irrigation and water source, water usage in agriculture	Dr. Nguyen Van Duc (nguyenvanduc@huaf.edu.vn)	Production of Organic dressing fertilizer for crops Impact of Organic fertilizers on productivity and quality for crops Production of Organic pesticide for crops	3
8	Researching technologies for preserving and processing agricultural products, foods and functional foods Exploiting biological substances in plants and applying in preserving and processing agricultural products and foods	Dr. Nguyen Van Hue (nguyenvanhue79@huaf.edu.vn)	Bio - active compounds from plants Food safety and quality control	3
9	Production of biocomposting from agricultural by products Production of mushroom from agricultural by products	Dr. Nguyen Thi Kim Cuc (ntkcuc.huib@hueuni.edu.vn)	Bio-conversation of biomass residues into high value products using enzyme engineering	1