

Department of Biology

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The mission of the Department of Biology in the Graduate School of Kyung Hee University is to replace mysteries in the living world with understanding. Every piece of discovery and understanding of life leads us to a new world of development in which the sum of our efforts provides the fundamentals of human well-being via diverse human technologies. The department provides a curriculum at the leading edge to support first-rate graduate students at all levels. Directors of fourteen research laboratories in the department have actively participated in many national and public research projects. Recently, the department developed a road map to establish the most competitive and specialized research consortium in the area of biomedical sciences. We are about to establish new traditions in biomedical sciences including neuroscience, oncology, microbial infections, bioinformatics, and systems biology.

| Degree Requirements |

- At least 24 course units of graduate level credit in Biology courses are required for the master's degree, 60 course units for the doctor's degree (including units completed in master's course).
- Students must pass a qualifying examination.
- Students must fulfill presentation, defense, and document requirements for the Biology thesis committee.
- A thesis advisor can be any faculty member in the Department of Biology.

| Courses |

Advanced Animal Growth Biology, Advanced Cell Biology, Advanced Economic Botany, Ecological Modeling, Extremophiles, Developmental Neurobiology, Environmental Philosophy, Advanced Human Genomics, Advanced Neuroscience, Advanced in Predictive toxicology, Seminar in System Biology, Advanced Applied Microbiology, Advanced Molecular Oncology, Advanced course in Signal Transduction, Reproductive Biology of Flowering Plants, Community Ecology, Advanced Developmental Biology, Seminar in Functional Genomics, Synapse Function, Environmental System Toxicology Seminar, Population Ecology, Insect Behaviour, Seminar in Bioinformatics, Microbiomics, Comparative Animal Physiology, Reviews in Current Biology, Advanced Plant Systematics I, Ecological Informatics, Advanced Microbial Genetics, Advanced Molecular Neurobiology I, Ecology and Cultural Contents, Seminar in Statistical Genetics, Recent Advances in Neuroscience, Advanced in modern toxicology, Advanced Evolutionary Biology, Advanced Cancer Genomics, Host-Microbe Interaction, Advanced Endocrinology, Current Signal Transduction, Palynology, Ecosystem assessment and management, Socioecology, Behavioral Neuroscience, Wildlife Management, Seminar in Molecular Neurobiology, Seminar in Computational Genomics, Ecotoxicity and Chemicals, Advanced Medical Genetics, Viral Metagenomics, Field Studies of Land Plants, Advanced Virology, Viral Pathogenesis, Advanced Animal Ecology, Behavioral Ecology, Current Biology Seminar, Protein Homeostasis, Applied Microbiology,

Scientific Writing in English, Nutrient cycling in ecosystem, Reviews in Current BiologyII, Advanced Molecular Biology, Molecular Microbiology, Advanced Bacteriology, Bacterial Pathogenesis, Advanced Biostatistics, Advanced Biochemistry, Research in Plant Systematics, Advanced Plant Anatomy, Ecological Genetics

| Faculty |

- ___ Yong-Seok Jeong, Ph.D. University of Texas at Austin, 1994, Professor, Virology, ysjeong@khu.ac.kr
- ___ Sang-Hoon Kim, Ph.D. University of North Dakota, 1996, Professor, Animal Physiology, shkim@khu.ac.kr
- ___ Ki-Soon Shin, Ph.D. Seoul National University, 1996, Professor, Neurobiology, kisoosoon_shin@khu.ac.kr
- ___ Soon-Ji Yoo, Ph.D. Seoul National University, 1998, Professor, Cell Biology, yoosoonji@khu.ac.kr
- ___ Young-Seuk Park, Ph.D. Pusan National University, 1993, Professor, Ecological Informatics, parkys@khu.ac.kr
- ___ Sung-Jae Lee, Ph.D. Kyung Hee University, 1998, Professor, Microbial Genetics, sungjaelee@khu.ac.kr
- ___ Eun-Young Kim, Ph.D. Ehime University, 1996, Professor, Environmental Chemistry and Ecotoxicology, eykim@gmail.com
- ___ Jin-Woo Bae, Ph.D. KAIST, 2001, Professor, Microbial Ecology, baejw@khu.ac.kr
- ___ Kwangwoo Kim, Ph.D. KAIST, 2011, Professor, Human Genomics, kkim@khu.ac.kr
- ___ Kwoneel Kim, Ph.D. KAIST, 2015, Assistant Professor, Bioinformatics, kwoneelkim@khu.ac.kr
- ___ Chang Seok Han, Ph.D. University of New South Wales, 2013, Assistant Professor, Evolutionary Ecology, cshan@khu.ac.kr
- ___ Ho-Seok Lee, Ph.D. Yonsei University, 2015, Assistant Professor, Plant Genomics, hoseoklee@khu.ac.kr
- ___ Hankyu Kim, Ph.D. Oregon State University, 2021, Assistant Professor, Wildlife Conservation Biology, kimhk@khu.ac.kr
- ___ Jung-Min Kim, Ph.D. in Science, Pohang University of Science and Technology, 2012, Assistant Professor, Developmental Biology, jungminkim@khu.ac.kr

| Laboratories |

▪ Molecular Virology Laboratory

Director : Professor Yong-Seok Jeong(ysjeong@khu.ac.kr)

▪ Animal Cell Physiology Laboratory

Director : Professor Sang-Hoon Kim(shkim@khu.ac.kr)

▪ Neurobiology Laboratory

Director : Professor Ki-Soon Shin(kisoosoon_shin@khu.ac.kr)

▪ Molecular Cell Biology Laboratory

Director : Professor Soon-Ji Yoo(yoosoonji@khu.ac.kr)

▪ Ecology and Ecological Informatics Laboratory

Director : Professor Young-Seuk Park(parkys@khu.ac.kr)

▪ Microbial Genetics Laboratory

Director : Professor Sung-Jae Lee(sungjaelee@khu.ac.kr)

▪ **Ecotoxicology Laboratory**

Director : Professor Eun-Young Kim(eykim08@khu.ac.kr)

▪ **Microbial Ecology Laboratory**

Director : Professor Jin-Woo Bae(baejw@khu.ac.kr)

▪ **Genomics Laboratory**

Director : Professor Kwangwoo Kim(kkim@khu.ac.kr)

▪ **Systems Bioinformatics Laboratory**

Director : Assistant Professor Kwoneel Kim(kwoneelkim@khu.ac.kr)

▪ **Evolutionary Ecology Laboratory**

Director : Assistant Professor Chang Seok Han(cshan@khu.ac.kr)

▪ **Plant Immunity & Genomics Laboratory**

Director : Assistant Professor Ho-Seok Lee(hoseoklee@khu.ac.kr)

▪ **Wildlife Conservation Ecology Laboratory**

Director : Assistant Professor Hankyu Kim(kimhk@khu.ac.kr)

▪ **Cell Control & Regenerative Medicine Laboratory**

Director : Assistant Professor Jung-Min Kim(jungminkim@khu.ac.kr)