

# Degree Program

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### ○ Master's/Doctoral Program

The master's/doctoral degree program of GSMSE focuses on enhancing students' critical thinking and research capacity by developing their understanding of human diseases and biological mechanisms through lectures, experiments, research, and seminars. Students gain the necessary knowledge and skills expected of medical scientists, actively participating in academic and research activities to keep abreast of the latest trends in medical science.

The mandatory courses of the master's/doctoral program help to build basic knowledge required for students to pursue research in medical science and related fields. They cover various areas such as cell biology, biochemistry, molecular biology, immunology, vascular biology, cell therapeutics, genomics, and cancer genomics. Special lectures in medical science and engineering are also provided for students to familiarize themselves with the latest research trends.

GSMSE encourages independent thinking in research activities, so as to nurture students to become leading medical scientists of the future. To receive a doctoral degree, students are required to publish an SCI(E) paper in an international journal. Laboratory seminars and individual meetings with advisors are held to provide guidance for students in every stage of research. Department seminars, offered both regularly and on demand, allow more opportunities to interact with outstanding scientists at home and abroad. All students receive scholarships from the government or other organizations, and enjoy access to on-campus dormitories and advanced research equipment.

The faculty of GSMSE are involved not only in basic medical science research, but also joint research projects on biomedicine development with major hospitals. The new findings can be applied to develop novel technology for the treatment of various human diseases.