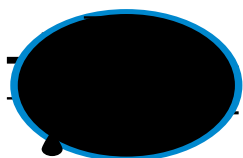


PhD in Genomics and Precision Medicine

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An academic program catering to the needs of Qatar's growing health care sector. It provides theoretical and practical knowledge in genomics and precision medicine, and integrates patient-focused solutions.



HBKU's Genomics and Precision Medicine (GPM) programs are multidisciplinary graduate courses that have been designed to prepare the next generation of professionals and leaders, who will help implement the use of precision and personalized medicine in the healthcare system.

The Master of Science and PhD degree paths in GPM offer students advanced knowledge and training in state-of-the-art information gathering and analysis technologies in order to integrate "omics" - the branch of biology that deals with data on global changes at the molecular level in patients - with clinical data.

Program Focus

- The exploration of a rigorous curriculum and practical training designed to provide a strong foundation, as well as cutting-edge knowledge, in both theoretical and applied aspects of genomics and precision medicine.
- Students will be exposed to the latest advancements in the field of genomics and precision medicine and will explore state-of-the-art basic, clinical, technological, computational, and legal and ethical aspects of a fascinating, fast-expanding sector of the life sciences.
- Throughout their studies, students will examine aspects of the four main pillars of genomics and precision medicine: clinical aspects, technology, "omics", and bioethics.

Curriculum

A program consisting of a minimum of 54 credits, taught in English, typically over four to five years that includes:

- **One mandatory foundation courses**
 - **A minimum of five elective courses**
 - **Participation in departmental seminars**
 - **Participation in the GPM journal club**
 - **Dissertation research and laboratory training (minimum of six semesters)**
 - PhD students are required to pass a qualifying examination after their second semester, and a candidacy examination after their fourth semester.
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