



### Master Programs

Master Program	Genomics and Health/ Génomique et Santé/ GNSA
Master Type	<input type="checkbox"/> M1+ M2 Professional <input type="checkbox"/> M2 Professional <input checked="" type="checkbox"/> M2 Research
Teaching Language	<input checked="" type="checkbox"/> English <input type="checkbox"/> French <input type="checkbox"/> Mixed - English & French
Place of Teaching (Campus)	<input checked="" type="checkbox"/> Hadat <input type="checkbox"/> Fanar <input type="checkbox"/> Tripoli <input type="checkbox"/> Nabatieh
About the Program	<p>The Genomics and Health Master's program is a dynamic, interdisciplinary academic and research program that explores the relationship between genomics and human health. This program provides a solid understanding of genomics, a rapidly evolving field, and knowledge of its sophisticated technologies, bioinformatics, and applications across various domains. The curriculum encompasses fundamental and functional genomics, gene editing, polymorphisms, transcriptomics, proteomics, developmental biology, genomics instability, DNA damage, genetics, epigenetics, and therapeutic strategies, alongside concepts and practices of molecular bioengineering. Moreover, students go into forensic concepts, personalized medicine, bioethics principles, and the implications of genomic information and technology on healthcare outcomes. Enriching the educational experience, guest researchers, external seminars, and internships augment the skills and qualifications of enrolled students. Completion of the master's program equips students for entry into doctoral programs and paves the way for a research-oriented career path.</p>
Program Learning Outcomes	<ul style="list-style-type: none"> <li>Analytical and critical skills</li> <li>Introduction to research: ethical and responsible conduct</li> <li>Effective oral communication</li> <li>Design of an experimental strategy / writing of a report / analysis of an article</li> <li>Teamwork: managing and collaborating</li> </ul>
Fields of Work	<p>The field of Genomics and Health opens up a wide range of career opportunities across various sectors as:</p> <ul style="list-style-type: none"> <li>Research: health, agriculture, evolutionary, microbial, genetics, forensic and medicine genomics</li> <li>Academia and pedagogy</li> <li>Biotechnologies/drug discoveries and pharmaceutical companies</li> <li>Genomic counseling/ diagnosis sector</li> <li>Personalized medicine startups</li> <li>Bioinformatics and data science</li> </ul>
Admission Requirements	<p><b>GPA:</b>          Minimum GPA of 68/100 for students from LU (French and English)          Minimum GPA of 3 for students from outside LU</p> <p><b>Major:</b></p> <p> <input checked="" type="checkbox"/> Biochemistry/Biochimie         <input checked="" type="checkbox"/> Animal Biology/ Biologie animale  <input type="checkbox"/> Plant Biology         <input type="checkbox"/> Chemistry  <input type="checkbox"/> Math         <input type="checkbox"/> Computer Science         <input type="checkbox"/> Electronics         <input type="checkbox"/> Physics  <input checked="" type="checkbox"/> Public health/Medicine       </p>
Coordinator of Master Program	<p><b>Mme Raghida Abou Merhi</b></p> <p><b>Contact information:</b>          UL Email address: raboumerhi@ul.edu.lb          Alternative email: raghidaam@yahoo.com          Phone number (<i>optional</i>): +961- 03 430515</p>