

KEY features

- **Degree:** Master of Science (M.Sc.)
- **Program duration:** 2 years
4 academic semesters
Full time (100%)
- **Language:** English
- **Course credits:** 120 ECTS

- **Application Deadline:**
July 1st, 2021

- www.molecularbiomedicine.gr



HELLENIC REPUBLIC
National and Kapodistrian
University of Athens

EST. 1837



"ALEXANDER FLEMING"
Biomedical Sciences Research Center

NATIONAL AND KAPODISTRIAN
UNIVERSITY OF ATHENS

International MSc Molecular Biomedicine

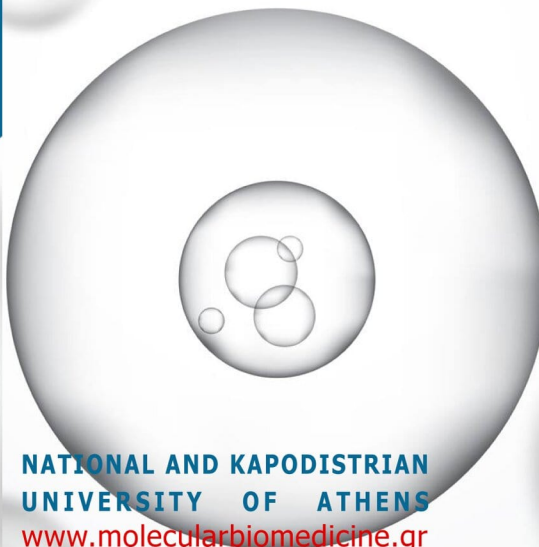


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Training the
Next Generation
of Biomedical
Researchers
and Innovators

Admission Requirements

- BSc degree from University, Technological or Polytechnic schools of the Health, Natural or Informatics Sciences discipline
- If coming from a non-biological undergraduate program, basic molecular Biology knowledge will be assessed if selected for an interview
- Good knowledge of the English language
- Demonstrated intellectual and academic excellence

Program Curriculum

The MSc Program consists of 4 mandatory training modules:

1) Mechanisms of Disease:

- Molecular and Cellular mechanisms in
 - chronic inflammation and immunological diseases
 - metabolic and infectious diseases
 - neurodegenerative diseases
 - cancer

2) Molecular and Cellular therapies

- Cutting edge technologies
- Drug development: from *in silico* to *in vivo*
- Precision medicine, Biomarkers and Companion diagnostics
- System biology and Biotechnology

3) Bio-innovation

- Basic Principles of entrepreneurship & innovation
- Intellectual property and exploitation of results
- Technology transfer
- Successful examples of business innovation
- Opportunities and challenges in the "big data" era

4) Transferable skills

- Science communication, scientific article and grant proposal writing, oral presentations, critical analysis of scientific literature, basic laboratory and clinical research methodology, bioethics

Program Structure

1st Semester:

- Courses and lectures on all modules
- Journal Clubs

2nd Semester:

- Two lab rotations (3 months each)
- Journal Clubs and lectures (once weekly)

3rd Semester:

- Thesis Research Project (Full time)

4th Semester:

- Finalization and writing of Research / Diploma Thesis
- Final Exam:
 - Research Thesis presentation
 - Research Proposal
 - Analysis of two thematic topics

Why Apply?

- Perform high-end independent research in an international environment fostering a cross-cultural way of thinking
- Develop expertise in cutting edge methodologies and research tools
- Gain strong cross-disciplinary experience in disease modelling, translational and clinical research, bioinformatics, immunology, genetics, molecular and cellular biology, functional genomics, and epigenetics
- Interact tightly with the private sector and gain a deep insight into how fundamental discoveries and advances are translated into successful products and services
- Complementary training in innovation, entrepreneurship and technology transfer
- Program lecturers, research hosts and invited speakers are leading scientists of international standing