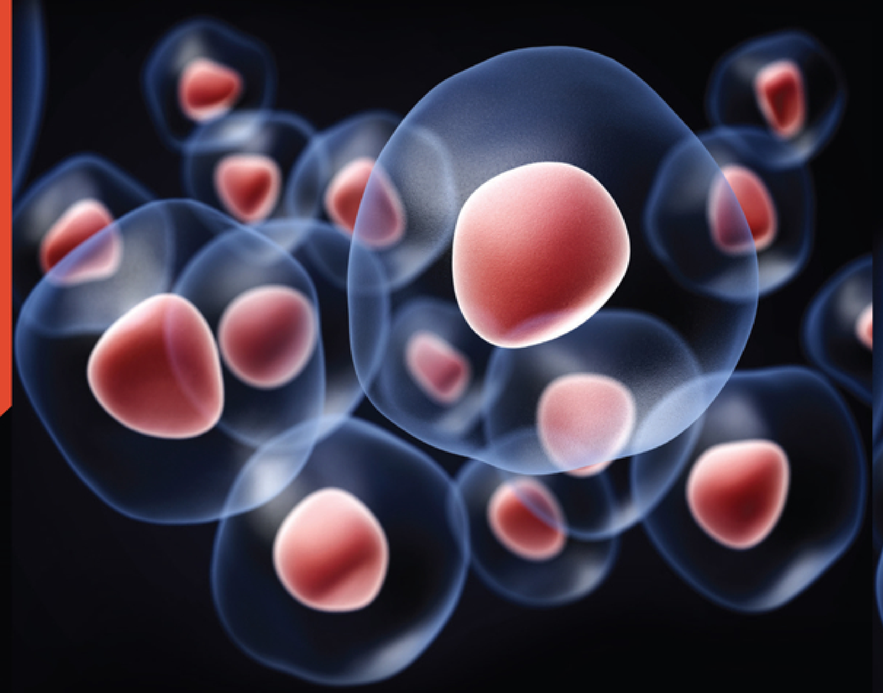
Admission Requirements

- 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



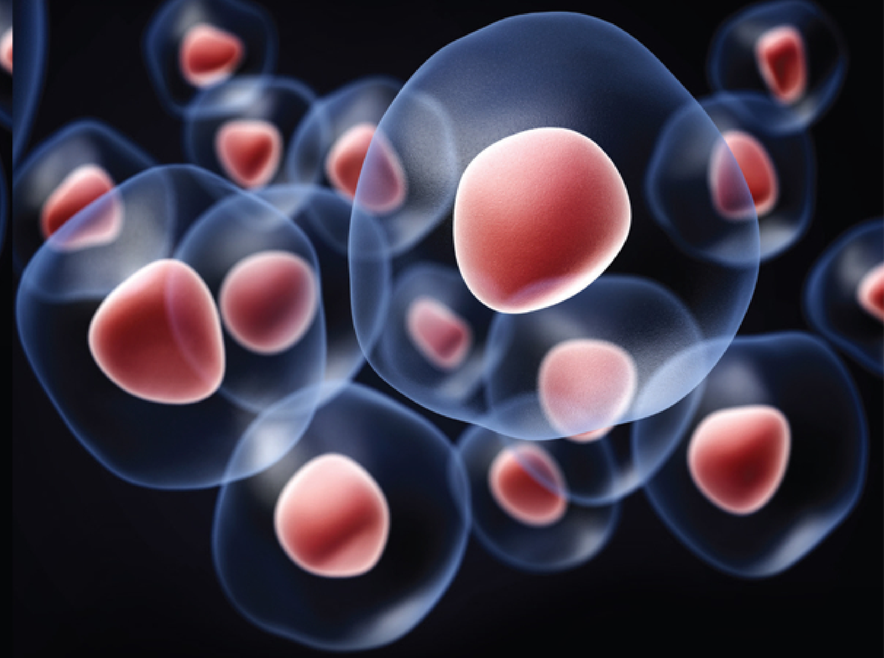
HELLENIC REPUBLIC
National and Kapodistrian University of Athens

In collaboration with:

"ALEXANDER FLEMING"
Biomedical Sciences Research Center

NATIONAL AND KAPODISTRIAN UNIVERSITY OF ATHENS

MSc PROGRAM IN MOLECULAR BIOMEDICINE



www.molecularbiomedicine.gr

- Our goal is to train the next generation of biomedical researchers and innovators in a vibrant and dynamic international environment
- Students will study mechanisms of disease, discover molecular & cellular therapies and learn about new concepts in bioinnovation

Application Deadline:
September 4th, 2016

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KEY Features

- **Degree:** Master of Science
- **Program duration:** 2 years (4 academic semesters) - Full time (100%)
- **Language:** English
- **Course credits:** 120 ECTS
- **Fees:** €1,000 per academic semester

Program Curriculum

The MSc Program consists of 4 mandatory training modules:

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

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

Bio-innovation
- Basic Principles of entrepreneurship and innovation
- Intellectual property and exploitation of results, Technology transfer
- Successful examples of business innovation
- Opportunities and challenges in the “big data” era

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 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 to successful products and services
- Complementary training in innovation, entrepreneurship and technology transfer
- Program lecturers, research hosts and invited speakers are scientists of international standing