

# ONLINE MASTER IN MOLECULAR ONCOLOGY



## PROGRAM AT A GLANCE

- With Faculty from **HARVARD** (BIMDCC).
- Online Video Streaming Classes: 300 hours.
- Possibility to have a week of intensive training at the CNIO (Spain) laboratories.
- Obtained degree: Master in Molecular Oncology.
- Research Project and Tutoring: 300 hours.

## 1 YEAR MASTER DIRECTED TOWARDS

Oncology Specialists, Hematology Specialists, Pathology Specialists. PhDs and specialists in area of biomedicine

## GOALS

The main objective of this Master degree is to provide their students with an education that combines rigorous cancer studies and the latest improvements in oncological therapies.

Treating cancer based on a multidisciplinary vision of tumor disease. The student will have access to basic knowledge of the gene origin and cancer development; methodology of basic research and clinical oncology; understand the patterns of expression of the tumors; as well as, therapeutical approaches based on molecular pathways involved in tumorigenesis.

## PROGRAMME

### MODULE I CELLULAR AND MOLECULAR BIOLOGY OF CANCER

1. Cell, genes and regulation of gene expression
2. Proto-oncogenes
3. Tumor suppressor genes
4. Cellular processes linked to carcinogenesis

### MODULE III MOLECULAR ONCOLOGY

1. Epidemiology
2. Familial Cancer
3. Pharmacology and Antitumor Strategies
4. Complementary Therapies
5. Clinical Research

### MODULE II MOLECULAR PATHOLOGY

1. Immunohistochemistry
2. Cytogenetics
3. Cancer Genome
4. Transcriptomics. miRNAs
5. Proteomics
6. Epigenetics

### MODULE IV RESEARCH PROJECT

