

TITLE

Structural and functional studies of tumor associated proteins for the development of new anti-tumor drugs.

DESCRIPTION

Aim of this Ph.D project will be the identification of protein targets which have a key role in tumour development. The cDNA of these proteins will be cloned in the proper vectors for heterologous expression. Once obtained the expressed proteins will be purified and functional characterized. Structural studies by X-ray crystallography will be performed on the selected systems to obtain information to be used for the rational design and development of molecules able to modulate their function in tumours.

SELECTION CRITERIA

Eligibility Criteria

- Academic degree: Applicants shall have a master degree in the field of **chemistry, biology, bioinformatics, biochemistry, biotechnology, pharmaceutical science and medical science**, corresponding to the second level of studies
- Mobility rule: There will be no nationality restrictions. Applicants can be from any Country. However, according to the mobility rule, at the time of the application deadline researchers should not have resided or carried out their main activity (work, studies, etc.) in Italy for more than 12 months in the 3 years immediately prior to the reference date. Compulsory national service and/or short stays such as holidays will not be taken into account.
- Research experience: Applicants shall, at the time of the application deadline, be in the first four years (full-time equivalent research experience) of their research careers and not yet awarded a doctoral degree.

Full-Time Equivalent (FTE) Research Experience will be determined from the date when a researcher obtained the degree which would formally entitle him or her to embark on a doctorate, either in the country in which the degree was obtained or in Italy, irrespective of whether or not a doctorate is or was ever envisaged.

Evaluation Criteria

Step 1 -Evaluation of documentation provided by the candidate: a) Academic record and training b) Research activities c) CV/motivation letter; d) Level of English; e) Reference letters

Step 2 -Interview : a) Scientific knowledge in the field of interest; b) Research experience in the field of interest c) Motivation d) English proficiency.