

## TITLE

### Structure and function of key macromolecules involved in severe human pathogenesis

## DESCRIPTION

The PhD candidate will develop a solid competence in structural biology, molecular biology and biochemical/biophysical characterization of key molecular players involved in severe human pathogenesis. Specifically, the candidate will be involved in activities focused on the cloning in the proper vectors for heterologous expression, high throughput purification and structural/functional characterization using a plethora of biophysical techniques including x-ray crystallography.

## SELECTION CRITERIA

### Eligibility Criteria

- Academic degree: Applicants shall have a master degree in **Chemistry, Pharmacy, Biomolecular Sciences, Biological Sciences or Biotechnology Sciences, Biotherapeutics**, 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 her/him 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.

### Supervisors

Dr. Rita Berisio <http://www.ibb.cnr.it/?command=viewu&id=389>

Dr. Menotti Ruvo <http://www.ibb.cnr.it/?command=viewu&id=386>