



UFFICIO CONCORSI  
ATTACHMENT A – Information sheets

**Category/Assignment area:** category D – economic position D3

**Duration of the contract:** 36 months

**Workplace:** Siena University - Department Of Medical Biotechnologies

**Project:** Evaluation of in vitro and in vivo activity of antimicrobial and anti-inflammatory molecules and construction of medical devices for human applications

**Scientific Supervisor:** Prof. Alessandro Pini

**Economic Treatment:** Economic treatment corresponding to cat. D - economic position D3 - which corresponds to an annual gross amount of € 41,726.14; Annual beneficiary 29,237.88; Total estimated gross cost for 3 years: € 125,178,42

**Activities to be carried out:** Technical and administrative support within the research projects:

- Assistance in the economic reporting of projects
- Management of reagents and laboratory instruments purchase
- Participation to the writing of scientific projects for funding and for animal experimentation authorizations
- Supervision to the dissemination of scientific results
- Technical management of laboratory equipment
- Research support in cell cultures for immunometric tests and microscopy
- Research support to the in vitro and in vivo efficacy and toxicity activities of antimicrobial and anti-inflammatory molecules
- Technical support to the construction and development of medical devicesSupporto alla costruzione e sviluppo di dispositivi medici

**Admission requirements:**

- Master's degree in Health Biology or Biotechnology for Human Health (LM6 or LM9)
- Documented knowledge of eukaryotic and prokaryotic cell culture techniques and immunometric assays

**Language proficiency level:** Advanced level of proficiency in English

**Test administration:** a written test, CV and qualification assessment, and an oral test conducted partially in English

**Contents of the tests:**

- Construction of peptide-based medical devices;
- Cytotoxicity tests of antimicrobial and anti-inflammatory peptides;



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- In vivo toxicity of peptides for pharmaceutical development;
- Selection of peptides for drug discovery

The interview will focus on the topics relating to the laboratory activity previously carried out by the candidate and on the present project

**Further assessable qualifications:**

- Ph.D. awarded or enrolment in its final year
- Funded Fellowships on scientific projects
- Experience in cell culture for immunometric assays
- Experience in the drug manufacturing industry
- Experience in pharmaceutical companies
- Professional registration
- Certificate of qualification in occupational health and safety in high-risk scientific areas
- Experience tutoring students for scientific bachelor's and master's degree theses
- Participation in science conferences
- Publications with emphasis on the last four years and the applicant's position in the author list