

Training program planned in the context of the requested project

The PhD students that will incorporate to the project will be trained in an excellent scientific environment in IATA-CSIC. Our institute has been recently awarded as Excellence Center “Severo Ochoa”, which will involve an important leap in terms of improvement of our facilities, acquisition of updated equipment and the incorporation of 10 new PhD students, mostly foreign, to boost the internationalization of the center. Prof. Guillamón is guarantor of “Severo Ochoa” project and his research lines are included in the prioritized programs of this prestigious project.

More specifically, the training of the PhD student will be carried out through the Official Doctorate in Biotechnology and Biomedicine of Valencia University (verified according to RD99/2011). The competences provided by this doctorate courses fit very well with the formation expected for the student developing their thesis work in this project. The general objective of the program is the multidisciplinary training of students in the fields of Biomedicine and Biotechnology, through a theoretical, methodological and research level training. The PhD student will be also encouraged to make at least two stays with our international or national collaborators. In summary, the training plan of the PhD student will be a comprehensive plan that will include the learning of numerous techniques of a microbiology and molecular biology laboratory, the use of statistical and bioinformatics programs, the ability to communicate and discuss the results, the design of new experiments, the management of the usual activities in the laboratory, the attendance to specialized courses and, as an activity of great formative impact, a stay in a foreign laboratory of reference in the disciplines of systems biology and synthetic biology.