

Expression of Interest



Contact Person/Scientist in Charge

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University CEU Cardenal Herrera

Department / Institute / Centre

- **Name:** Universidad CEU Cardenal Herrera (CEU UCH)
- **Address:** Avd. Seminario S/N 46113 Montcada
- **Province:** Valencia

Research Area

- Life Sciences (LIF)

Brief description of the institution:

CEU Cardenal Herrera University belongs to the CEU San Pablo University Foundation which is a non-profit charitable educational institution with over 75 years' worth of experience in the field of education. In the context of the European framework in which we find ourselves, the internationalisation of the Research in our University is one of our main objectives.

Brief description of the Centre/Research Group (including URL if applicable):

Our University belongs to the San Pablo-CEU Foundation, the most important private education organization in Spain, having more than 26,000 students and 24 centers in all educative levels, among those three Universities in Madrid, Barcelona and Valencia.

CEU-UCH is among the top four Spanish private universities in research rankings (Shanghai Ranking Expanded, IUNE, international ranking SCIMAGO), being the best positioned in Valencia.

The university has a clear commitment to research (+3 million euros of investment and more than 40 projects) as a basis to develop academic excellence that benefits our students and society.

Research of the hosting group

The research group on "Pathology and Animal Health" works since 2002 in different aspects of interaction host-bacteria and veterinary pathology. Develops two main lines of research: (1) Immunopathology of the *Staphylococcus aureus* infections in rabbits, including the use and development of molecular tools and (2) pathologic diagnosis in various animal species. The group is composed of 1 senior and 4 junior scientists plus 1 PhD student.

<https://www.uchceu.es/investigacion/grupos-lineas-investigacion/patologia-y-sanidad-anim>

Project description:

Host responses associated with staphylococcal infections in rabbits

Staphylococcus aureus is a widely distributed bacterium in nature and it is commonly considered as a frequent host of skin and mucosa. In human medicine, is the most important cause of nosocomial infection. *S. aureus* is also a major pathogen in veterinary medicine, affecting various animal species. In rabbits has been signaled as one of the main causes of death. Recent results of our group have shown how different genetic lines of rabbits are able to response in a different way against several challenges (thermal, productive or infectious). At the same time *S. aureus* has a broad genetic arsenal for colonize and develop lesions in their hosts. Because of that, we are very interested in to study the genes involved in the development of lesions and the immunological response of the hosts (rabbits) to fight against the bacteria. In summary, we study the interaction between host and bacteria both from the point of view of animal health as for the development of an experimental model that can be useful in the study of staphylococcal infections.

Applications

Please send CV and motivation letter