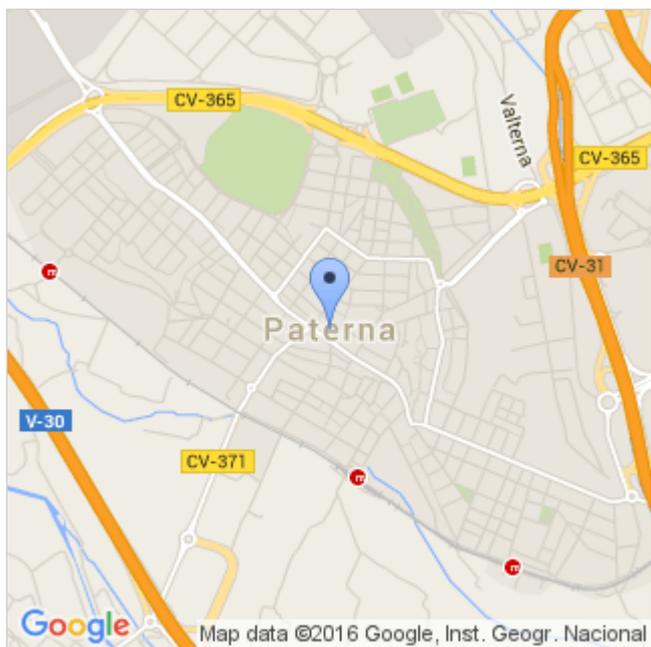


Expression of Interest



Contact Person/Scientist in Charge

- **Name and surname:** Pau Carazo
- **Email:** pau.carazo@uv.es

Universitat de València – Estudi General

Department / Institute / Centre

- **Name:** Cavanilles Institute of Biodiversity and Evolutionary Biology, University of Valencia
- **Address:** Calle Catedrático José Beltrán Martínez, nº 2 46980 Paterna - València
- **Province:** Valencia

Research Area

- Life Sciences (LIF)

Brief description of the institution:

The University of Valencia (UV) stands out as one of the main public research organisations in Spain, with more than three thousand researchers integrated in 90 departments, 19 institutes and other research units belonging to social, biomedical, human, experimental and formal sciences. Along with human resources, the UV state-of-art premises and facilities, guarantee the quality of a vast scientific and technological offer available to the service of society.

The UV is a leading academic organisation at national level. Shanghai 2014 ranks UV among the top 200-300 universities in the world, and 4th best university in Spain. As per URAP 2014, the University of Valencia ranks third among all Spanish universities, first in Valencia region and 193th in the world.

University of Valencia is participating in several European projects under the subsequent RTD European Framework Programmes (I to VIII) and other European programmes: Erasmus, Leonardo, Life+, Cost, Third Health Programme, EEA Grants, Daphne III, Creative Europe... acting as several roles: coordinator, contractor, associated contractor, member, host institution... having experience in the development and management of more than 300 European projects as a whole.

UV participated in 78 community actions financed under the VII FP (CSA, Collaborative Projects, MSCA, ERC grants, etc.) with the role of coordinator in 29 of them. Currently, we are participating in 20 projects financed under Horizon 2020, with the role of coordinator in 8 of them, and 16 projects under several European Programmes other than H2020

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

The Behaviour and Evolution lab is part of the Ethology unit of the Ecology, Ethology and Evolution group at Cavanilles Institute for Biodiversity and Evolutionary Biology (University of Valencia). We are generally interested in the evolution and function of behaviour, and in the role that behaviour plays as a spearhead of evolutionary change. Currently, our main line of research is on the evolutionary biology of sexual conflict and its interaction with ageing and kin selection, but we are also working on the role of adaptive behavioural plasticity in evolution, and on the evolution of signal reliability and animal signals at large.

More information in our webpage: <http://paucarazo.com>

Project description:

Sexual conflict, kin selection and ageing

Considerations of sexual conflict are fundamental to understand why males and females age at different rates, the costs of sex and the evolution of ageing. Unfortunately, the integration of these topical areas is in its infancy. In addition, new theoretical work has recently highlighted the potential importance of kin selection as a previously unconsidered modulator of sexual conflict and ageing.

Our on-going research aims to fill these gaps in knowledge by addressing fundamental evolutionary questions concerning the interplay between ageing, sexual conflict and kin selection, such as: Does sexual conflict influence ageing rates and vice versa?, or Does kin selection modulate sexual conflict and reproductive ageing? The latter line of research has crystallised in a recent publication in Nature (Carazo et al. 2014), where we provide empirical 'proof of concept' that kin selection can modulate the intensity of sexual conflict and ageing rates. This finding opens a host of new avenues of research that we aim to explore in the following years.

Applications

Application (documents to be submitted): CV and brief motivation letter.

Deadline: 15th July