

***Two year Postdoc opportunity in *Statistical and Population Genomics* *Miguel Pérez-Enciso (*
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*)***

Centre for Research in Agricultural Genomics (CRAG)

Campus UAB, 08193 Bellaterra, Barcelona, Spain

JOB DESCRIPTION

A two year postdoc position is available within the recently funded

project "Next generation tools to exploit genome diversity in domestic species". Two research topics are possible, or a mixture of both: 1- Use of sequence data in genomic selection. We will investigate by simulation, but using real sequence data, what are the potential advantages of sequence over high density genotyping under realistic genetic architectures. 2- To develop a population genetics model that mimic domestication and breed structure in livestock. Focusing in the pig species and using genomewide sequence data, the goal is to adjust a population genetics model that can be used as neutral model to test for selection.

**** *THE RESEARCH TEAM*** The PhD project will be supervised by Miguel Pérez-Enciso (ICREA professor,

<http://www.icrea.cat/Web/ScientificForm.aspx?key=255>

;

http://scholar.google.com/citations?user=Lpl_dcAAAAJ&hl=es

), in cooperation with S.E. Ramos-Onsins. Recent related publications include:

Pérez-Enciso M. et al. On genetic differentiation between domestic pigs and Tibetan wild boars. Nature Genetics (correspondence), accepted. Nevado, N., et al. 2014.

Re-sequencing studies of non-model organisms using closely-related reference genomes: optimal experimental designs and bioinformatics approaches for population genomics. Mol. Ecol. 23: 1764-1779.

Pérez-Enciso, M. 2014. Genomic relationships computed from either next generation sequence or array SNP data. J. Anim. Breed. Genet. 131:85-96.

Ramírez O, et al. 2014. Genome data from a sixteenth century pig illuminate modern breed relationships. Heredity doi: 10.1038/hdy.2014.81 Groenen et al. 2012. Analyses of pig

genomes provide insight into porcine demography and evolution. Nature 491:393-8. The

research will be developed in the recently built Centre for Research in Agricultural Genomics (

www.cragenomica.es

), based on campus of Universitat Autònoma de Barcelona (

www.uab.es

), Spain. **** *SALARY AND CONDITIONS*** Annual gross salary is 29k euro, the contract is available for one year and extendable to an additional year. The position is available starting May 2015 or as agreed. Candidates interested in the position should email me (

miguel.perez@uab.es

) their CV and names of two persons who can provide references. Miguel Pérez-Enciso

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