

Resource Summary Report

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CIPF Bioinformatics and Genomics Department

RRID:SCR_005692

Type: Tool

Proper Citation

CIPF Bioinformatics and Genomics Department (RRID:SCR_005692)

Resource Information

URL: <http://bioinfo.cipf.es/>

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Description: Biomedicine can only be understood in the context of genomics and with the concurrence of bioinformatics. Our department aims to tackle biomedical problems from a system's biology perspective. Following this, the general objective we seek through the main lines of research is to relate the mutations (Pharmacogenomics and Comparative Genomics) to their effect at cellular and phenotypic level (Functional Genomics) trying to understand the mechanism of action (Structural Genomics). Systems Biology Genes operate within an intricate network of interactions that we have only recently started to envisage. Many higher-order levels of interaction are continuously being discovered. In this scenario we are interested in developing methods and tools which can help to understand large-scale experiments from a systems biology perspective. Comparative genomics We are interested in the analysis of patterns and processes occurred during the evolution of our genome, and in the application of the evolutionary thought in human health and disease. * Adaptive Human Evolution * Evolutionary Pharmacogenetics * SNP's and Human Disease Structural genomics Our Unit aims to develop and apply computational methods for understanding the molecular mechanisms of cell regulation beyond proteins. In particular, we apply our methods to study the interaction of small chemical compounds with proteins and to characterize their molecular actions. We are also developing methods for RNA 3D structure prediction with the aim of applying them to understand the effects of non-coding RNA molecules. Finally, in collaboration with experimentalists, we are working in determining the first ever 3D structure of a genomic domain in human.

Abbreviations: CIPF Bioinformatics and Genomics

Synonyms: CIPF Department of Bioinformatics, CIPF Bioinformatics Genomics

Resource Type: organization portal, department portal, institution, portal, data or information resource

Keywords: genomics, bioinformatics

Resource Name: CIPF Bioinformatics and Genomics Department

Resource ID: SCR_005692

Alternate IDs: nlx_149143

Record Creation Time: 20220129T080231+0000

Record Last Update: 20260728T043221+0000

Ratings and Alerts

No rating or validation information has been found for CIPF Bioinformatics and Genomics Department.

No alerts have been found for CIPF Bioinformatics and Genomics Department.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 5 mentions in open access literature.

Listed below are recent publications. The full list is available at [nidm-terms](#) .

Romero P, et al. (2019) A sweet orange mutant impaired in carotenoid biosynthesis and reduced ABA levels results in altered molecular responses along peel ripening. Scientific reports, 9(1), 9813.

Carrió-Seguí À, et al. (2019) Copper transporter COPT5 participates in the crosstalk between vacuolar copper and iron pools mobilisation. Scientific reports, 9(1), 4648.

Costa ASH, et al. (2018) Does growth path influence beef lipid deposition and fatty acid composition? PloS one, 13(4), e0193875.

Bianconi M, et al. (2016) Angiogenesis genotyping in the selection of first-line treatment with either sunitinib or pazopanib for advanced renal cell carcinoma. Oncotarget, 7(25), 37599.

Romero P, et al. (2012) Unravelling molecular responses to moderate dehydration in harvested fruit of sweet orange (Citrus sinensis L. Osbeck) using a fruit-specific ABA-deficient mutant. Journal of experimental botany, 63(7), 2753.