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## Research outputs

### **Fertilizer regime and cultivar affect barley growth and rhizobiome composition**

Kindtler, Nikolaj Lunding, Sheikh, Sanea, Richardy, J., Krogh, E., Maccario, Lorrie, Vestergård, M., Rodrigues da Fonseca, Rute Andreia, Ekelund, Flemming & Laursen, Kristian Holst, 2024, In: Applied Soil Ecology. 198, 13 p., 105384.

### **Introgression and disruption of migration routes have shaped the genetic integrity of wildebeest populations**

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### **Population Genomics Reveals the Underlying Structure of the Small Pelagic European Sardine and Suggests Low Connectivity within Macaronesia**

Rodrigues da Fonseca, Rute Andreia, Campos, P. F., Rey de la Iglesia, Alba, Barroso, G. V., Bergeron, Lucie Adrienne, Nande, M., Tuya, F., Abidli, S., Pérez, M., Riveiro, I., Carrera, P., Jurado-Ruzafa, A., Santamaría, M. T. G., Faria, R., Machado, A. M., Fonseca, M. M., Froufe, E. & Castro, L. F. C., 2024, In: Genes. 15, 2, 15 p., 170.

### **Site-directed genotype screening for elimination of antinutritional saponins in quinoa seeds identifies TSARL1 as a master controller of saponin biosynthesis selectively in seeds**

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### **Iron age genomic data from Althiburos – Tunisia renew the debate on the origins of African taurine cattle**

Ginja, C., Guimarães, S., Rodrigues da Fonseca, Rute Andreia, Rasteiro, R., Rodríguez-Varela, R., Simões, L. G., Sarmento, C., Belarte, M. C., Kallala, N., Torres, J. R., Sanmartí, J., Arruda, A. M., Detry, C., Davis, S., Matos, J., Götherström, A., Pires, A. E. & Valenzuela-Lamas, S., 2023, In: iScience. 26, 7, 17 p., 107196.

### **Conservation genomics of the endangered Seychelles Magpie-Robin (*Copsychus sechellarum*): a unique insight into the history of a precious endemic bird**

Cavill, Emily Louisa, Gopalakrishnan, Shyam, Puetz, Lara Christine, Ribeiro, Â. M., Mak, Sarah Siu Tze, Rodrigues da Fonseca, Rute Andreia, Antunes Pacheco, George, Dunlop, B., Accouche, W., Shah, N., Zora, A., Calabrese, L., Genner, M., Jones, G., Guo, C., KU, thw266 & Gilbert, M Thomas P, 2022, In: Ibis. 164, 2, p. 396-410 15 p.

### **Comparative genomics provides insights into the aquatic adaptations of mammals**

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### **High genetic diversity and low differentiation reflect the ecological versatility of the African leopard**

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#### **Response of an Afro-Paleartic bird migrant to glaciation cycles**

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#### **The Crown Pearl: a draft genome assembly of the European freshwater pearl mussel *Margaritifera margaritifera* (Linnaeus, 1758)**

Gomes-dos-Santos, A., Lopes-Lima, M., Machado, A. M., Ramos, A. M., Usié, A., Bolotov, I. N., Vikhrev, I. V., Breton, S., Castro, L. F. C., Rodrigues da Fonseca, Rute Andreia, Geist, J., Österling, M. E., Prié, V., Teixeira, A., Gan, H. M., Simakov, O. & Froufe, E., 2021, In: *DNA research : an international journal for rapid publication of reports on genes and genomes*. 28, 2, 10 p., dsab002.

#### **Using UCEs to track the influence of sea-level change on leafy seadragon populations**

Stillier, Josefin, Rodrigues da Fonseca, Rute Andreia, Alfaro, M. E., Faircloth, B. C., Wilson, N. G. & Rouse, G. W., 2021, In: *Molecular Ecology*. p. 1364-1380

#### **Declining genetic diversity of European honeybees along the twentieth century**

Themudo, G. E., Rey de la Iglesia, Alba, Tascón, L. R., Jensen, Annette Bruun, Rodrigues da Fonseca, Rute Andreia & Campos, P. F., 29 Jun 2020, In: *Scientific Reports*. 10, 12 p., 10520.

#### **A draft genome sequence of the elusive giant squid, *Architeuthis dux***

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#### **Adaptive venom evolution and toxicity in octopods is driven by extensive novel gene formation, expansion, and loss**

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#### **Cartilaginous fishes offer unique insights into the evolution of the nuclear receptor gene repertoire in gnathostomes**

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#### **Dense sampling of bird diversity increases power of comparative genomics**

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**Evolution of the extracytoplasmic function  $\sigma$  factor protein family**

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**Link Your Sites (LYS) Scripts: Automated Search of Protein Structures and Mapping of Sites Under Positive Selection Detected by PAML**

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**Liver transcriptome resources of four commercially exploited teleost species**

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**Population genomic footprints of environmental pollution pressure in natural populations of the Mediterranean mussel**

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**31° South: The physiology of adaptation to arid conditions in a passerine bird**

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**Complete Inactivation of Sebum-Producing Genes Parallels the Loss of Sebaceous Glands in Cetacea**

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**Consequences of breed formation on patterns of genomic diversity and differentiation: the case of highly diverse peripheral Iberian cattle**

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**Identifying loci under positive selection in complex population histories**

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**Large-scale ruminant genome sequencing provides insights into their evolution and distinct traits**

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**Genome sequence and effectorome of *Moniliophthora perniciosa* and *Moniliophthora roreri* subpopulations**

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**Natural selection shaped the rise and fall of passenger pigeon genomic diversity**

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**Marine genomics: news and views**

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**Combined transcriptomic and proteomic analysis of the posterior salivary gland from the southern blue-ringed octopus and the southern sand octopus**

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**Comparative analysis of complete mitochondrial genomes suggests that relaxed purifying selection is driving high nonsynonymous evolutionary rate of the NADH2 gene in whitefish (*Coregonus ssp.*)**

Jacobsen, M. W., Rodrigues da Fonseca, Rute Andreia, Bernatchez, L. & Hansen, M. M., 2016, In: Molecular Phylogenetics and Evolution. 95, p. 161-170 10 p.

**Next-generation biology: sequencing and data analysis approaches for non-model organisms**

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**A refined model of the genomic basis for phenotypic variation in vertebrate hemostasis**

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**Phylogenomic analyses data of the avian phylogenomics project**

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**Proteomic profiling of gill GSTs in *Mytilus galloprovincialis* from the North of Portugal and Galicia evidences variations at protein isoform level with a possible relation with water quality**

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**Shotgun analysis of the marine mussel *Mytilus edulis* hemolymph proteome and mapping the innate immunity elements**  
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#### **The origin and evolution of maize in the Southwestern United States: [+ erratum]**

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#### **Cephalopods in neuroscience: regulations, research and the 3Rs**

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#### **Comparative genomics reveals insights into avian genome evolution and adaptation**

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