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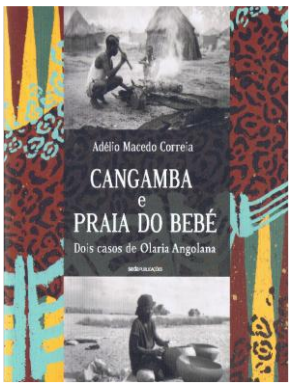
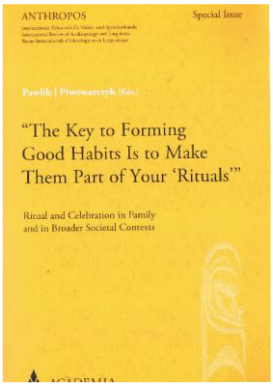
nov 2025

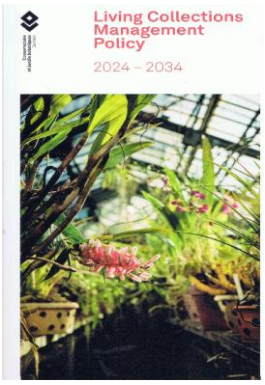
Anatomia animal. [Setúbal]: Marina Editores, cop. 1988.



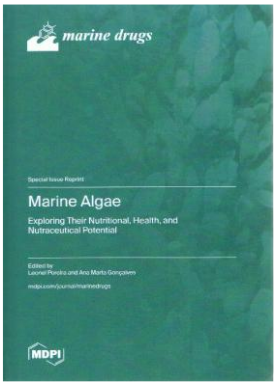
Cangamba e praia do bebé: dois casos de olaria angolana / Adélio Macedo Correia. Viseu: Seda Publicações, cop. 2023, D.L. 2025.



The key to forming good habits is to make them part of your 'rituals': ritual and celebration in family / Jacek J. Pawlik, Baden-Baden: Academia, 2023.



Living collections management policy 2024-2034 / [Authors Nicolas Freyre, Louis Nusbaumer]. Geneva: Geneva Botanical Garden, cop. 2024.



Marine algae: exploring their nutritional, health, and nutraceutical potential /Edited Leonel Pereira, Ana Marta Gonçalves. Basel: MDPI, 2025.

Publicações Periódicas

Título	Vol.	Nº	Ano
Acta Phytotaxonomica Geobotanica	76	2	2025
Além-mar	69	762	2025
Anthropological Science	133	2	2025
European Biotechnology - Life Sciences & Industry Magazine	40		2025
Folia Botanica Extremadurensis	19		2025
Ginkgoblatter		184	2025
Missouri Botanical Garden Bulletin	114	1	2026
Revista Crítica Ciências Sociais	137		2025

Produção Científica do DCV Indexadas na Web of Science

Integrative molecular and taxonomic techniques reveal larval fish biodiversity patterns in the Azores UNESCO biosphere reserves
Guerreiro, MA; Veríssimo, A; (...); Martinho, F
2025
ESTUARINE COASTAL AND SHELF SCIENCE, 327
Oceanic islands are important habitats for marine fish larvae, providing suitable conditions for their development and growth, contributing to fisheries production. This study characterises the early summer larval communities around the Azores UNESCO Biosphere Reserves (Mid North Atlantic, Portugal), focusing on four islands: Sao Jorge and Graciosa (central group) (…)

Electrical impedance spectroscopy based strategy for detecting and differentiating microplastics in water
Magalhaes, S; Rasteiro, MG; (...); Faia, P
2025
JOURNAL OF WATER PROCESS ENGINEERING, 80
Microplastics (MPs) are widespread emerging contaminants for which routine, in situ detection remains a significant analytical challenge, especially in realistic, biologically active aquatic environments. Existing methods (e.g., FTIR, Raman) are labor-intensive, require extensive pre-processing, and often lack sensitivity to mixed or biofilm-coated MPs. This study addresses these (…)

Seaweed-based dessert as a nutraceutical for cardiovascular diseases
Valado, A; Cotas, J; (...); Pereira, L
2025 (Early Access)
JOURNAL OF APPLIED PHYCOLOGY
A sedentary lifestyle combined with a poorly diversified diet contributes to alterations in lipid profiles, namely total cholesterol (TC), high-density lipoprotein cholesterol (HDL-C), low-density lipoprotein cholesterol (LDL-C), and triglycerides (TG), which are key risk factors in the development of cardiovascular disease (CVD). These lipid imbalances are closely linked to hepatic function, a (…)

Shotgun metagenomic mining reveals a new FAD-dependent D-lactate dehydrogenase in an isopod gut microbiome
Coelho, C; Taborda, A; (...); Martins, LO
2025 (Early Access)

APPLIED AND ENVIRONMENTAL MICROBIOLOGY

Shotgun metagenomic sequencing has emerged as a powerful tool for exploring microbial diversity and uncovering genes encoding novel biocatalysts from complex environments. Here, we report the discovery and characterization of a new FAD-dependent D-lactate dehydrogenase (PdG-D-LDH) from the gut microbiome of the isopod Porcellio dilatatus. The enzyme was identified (…)

Profilin 1 controls a microglial cytoskeleton checkpoint to prevent senescence and premature synaptic decline

Portugal, CC; Almeida, TO; (...); Relvas, JB

2025

JOURNAL OF NEUROINFLAMMATION, 22(1)

Profilin 1 (Pfn1) expression decreases significantly in aged human microglia, suggesting that loss of cytoskeletal integrity may trigger microglial senescence and increased synaptic vulnerability. To test this hypothesis, we used an inducible, microglia-specific Pfn1 knockout in adult mice, a strategy designed to isolate the direct effects of acute Pfn1 loss at the cellular and circuit levels, (…)

Spatiotemporal patterns of brown bears with cubs compared to lone bears

Tizrouyan, M; Salmanpour, F; (...); Salmanpour, M

2025

MAMMAL RESEARCH, 71(1)

Large carnivores such as the brown bear (Ursus arctos) are keystone species whose persistence is increasingly threatened by habitat fragmentation, human encroachment, and climate change. Among the most vulnerable demographic groups are females with dependent cubs, whose survival strategies remain poorly understood in human-dominated landscapes. We investigated the (…)

Establishing DNA-Based Strategies for Soil Biodiversity Assessment: Insights From Carabid Beetles

Dornellas, LF; Mata, VA; (...); Cunha, L

2025

ECOLOGY AND EVOLUTION, 15(11)

Molecular-based methods offer valuable opportunities for assessing soil biodiversity in different ecosystems. However, their reliability and large-scale applicability depend on developing, optimizing protocols and establishing high quality, curated local reference databases. This study aimed to evaluate key steps in soil macroinvertebrate metabarcoding workflow, including (…)

Evidence for the evolution of male and female cardinals' plumage colouration being affected by both natural and sexual selection

Porzio, NS and Mota, PG

2025

BMC ECOLOGY AND EVOLUTION, 25(1)

The evolution of sexually selected traits, such as colouration, has been the object of considerable research. Among birds, plumage colouration is highly variable and includes some of the most exuberant signals. While sexual selection is generally considered the primary driver of the most conspicuous forms of these signals, several ecological, morphological, and social factors have also (…)

Intersectin1/cdc42 signaling regulates methamphetamine-induced neuronal remodeling in the hippocampus

Terceiro, AF; Lobo, A; (...); Summavielle, T

2025

CELLULAR AND MOLECULAR LIFE SCIENCES, 82(1)

The development and maintenance of drug addiction triggered by psychoactive substances, such as methamphetamine (Meth), is strongly influenced by synaptic and morphological adaptations in the brain. The hippocampus has a key role in the formation of maladaptive drug-context associations and relapse. However, the mechanisms regulating this complex process are not (…)

Morphological and chemotaxonomical characterization of some species of the genus *Euphorbia* L. in Jazan region, KSA

Hazzazi, Y; Sumayli, M; (...); Abdelgawad, AAM

2025

PLOS ONE, 20(11)

This study decisively evaluates the classification of four species of Euphorbia: Euphorbia ammak, Euphorbia fractiflexa, Euphorbia granulata, and Euphorbia hirta, collected from diverse habitats in Jazan region (Saudi Arabia). Our objective is to clearly define the interrelationships among these species by utilizing both traditional morphological analyses and cutting-edge chemotaxonomical (…)

BK polyomavirus in a Portuguese healthy group: seroprevalence, viral Excretion, and implications for transmission pathways

Oliveira, JM; Veiga, D; (...); Matos, AM

2025 (Early Access)

EUROPEAN JOURNAL OF CLINICAL MICROBIOLOGY & INFECTIOUS DISEASES

PurposeThe present study aimed to: characterize BK polyomavirus (BKPyV) infection in a group of a Portuguese healthy individuals by evaluating its seroprevalence and urinary excretion; and to contribute to the elucidation of BKPyV transmission routes by assessing its genome in respiratory and vaginal secretions.MethodsDifferent types of biological samples from healthy (…)

Beyond gadolinium: The potential of manganese nanosystems in MRI and multimodal imaging agents
Tei, L; Botta, M and Geraldes, CFGC
2025
ACTA BIOMATERIALIA, 207, pp.468-494
Manganese-based nanoparticles (Mn-NPs) hold great promise as MRI contrast agents and components of theranostic nanoplatforms, serving as a promising alternative to the more established gadolinium(III)-based nanosystems. This potential stems from their unique physicochemical properties and improved safety profile. This review introduces the fundamental principles of (…)

NDR2 Kinase Regulates Microglial Metabolic Adaptation and Inflammatory Response: Critical Role in Glucose-Dependent Functional Plasticity
Fazendeiro, B; Machado, I; (...); Léger, H
2025
INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 26(21)
Diabetic retinopathy (DR), a major complication of diabetes, is driven by chronic inflammation in which retinal microglial cells play a central role. The Hippo pathway kinases NDR1/2 regulate macrophage function, but their role in microglia and DR remain unknown. This study investigates the function of the NDR2 kinase in microglial cells under high-glucose (HG) conditions. Using CRISPR-Cas9 (…)

Using miniaturized laboratory equipment and DNA barcoding to improve conservation genetics training and identify illegally traded species
da Silva, MJF; Colmonero-Costeira, I; (...); Prost, S
2025 (Early Access)
CONSERVATION BIOLOGY
Illegal wildlife trade (IWT) is one of the largest global illegal activities, and it negatively affects biodiversity and sustainable development worldwide. DNA barcoding coupled with high-throughput sequencing (i.e., metabarcoding) is useful in identifying taxa affected by IWT and has been used routinely for decades. However, for countries lacking laboratory infrastructure, sequencing (…)

Comparative assessment of automated and manual monitoring in comprehensive plant-pollinator communities
Serra-Marin, PE; Solé-Ribalta, A; (...); Traveset, A
2025
METHODS IN ECOLOGY AND EVOLUTION, 16(12), pp.2960-2978
Pollinator declines pose a significant threat to ecosystem services, making effective monitoring methods critical for conservation efforts. Current research on pollination interactions remains constrained by traditional methods such as direct observations, which have limited spatial and temporal coverage and are inherently biased toward diurnal interactions. Moreover, the presence of (…)

The combined effects of site susceptibility to invasion and fire on population dynamics of the invasive tree Acacia dealbata
Lima, CG; Bastos, R; (...); Vicente, JR
2025
BIOLOGICAL INVASIONS, 27(11)
Disturbance by fire can significantly influence the spread and establishment of invasive alien plants, such as Acacia dealbata (silver wattle), which pose serious threats to ecosystems. This study assessed the combined effects of fire count density and landscape susceptibility to invasion on the population dynamics of A. dealbata in the Minho region of Portugal using a mechanistic model. (…)

Benthopelagic Deep-Sea Food Webs Along a Latitudinal Gradient in the Scotia Sea (Southern Ocean)
Queirós, JP; Belchier, M; (...); Xavier, JC
2025
ECOSYSTEMS, 28(6)
Understanding food-web structure is crucial to determine the functioning of ecosystems and sustainably manage resources. The Scotia Sea is an important area for Antarctic krill and toothfish fisheries, and one of the regions most impacted by climate change in the Southern Ocean. Whilst the pelagic Antarctic krill-centric food web has been investigated in reasonable detail, the structure (…)

Subclades of the Y-chromosome haplogroup R1b-M269 in Portuguese samples: F1343 as a common DF27 sublineage
Nunes, F; Pereira, J; (...); Manco, L
2025 (Early Access)
ANTHROPOLOGISCHER ANZEIGER
The internal branches of R1b-M269 (R1b1a1b) have been poorly analyzed in the Portuguese population. The present study aims to improve the understanding of the phylogenetic structure of this main haplogroup within the country. We analyzed 94 individuals, primarily from the central region of Portugal, previously identified as having the derived allele for the R1b-M269 marker. (…)

Mercury concentrations, habitat and trophic position of Antimora rostrata and Macrourus holotrachys from South Georgia (Southern Ocean)
Vaz, D; Queirós, JP; (...); Seco, J

2026

MARINE POLLUTION BULLETIN, 222

Mercury (Hg) is a neurotoxic element that can harm marine wildlife. Hg can reach the Southern Ocean through atmospheric and oceanic currents. However, data on Hg in Southern Ocean deep-sea fishes remain scarce. Our study assessed the influence of biological and ecological factors on Hg bioaccumulation in two deep-sea species, blue antimora (Antimora rostrata) and (…)

Invasion ecology of eucalypts: a review

Deus, E; Richardson, DM; (...); Silva, JS

2025

BIOLOGICAL INVASIONS, 27(11)

Long regarded as posing a low invasion risk, eucalypts are now increasingly recognized as invasive in certain contexts, leading to a surge of studies on this topic in recent years. We performed the first systematic literature review to analyse the invasion risk, the invasion performance and the drivers of eucalypt invasion, using information from 140 publications and 96 species. We also (…)

Pollinator contribution to crop production: a temporal and economic assessment in Portugal

Siopa, C; Gaspar, H; (...); Castro, S

2025

REGIONAL ENVIRONMENTAL CHANGE, 25(4)

Pollination is a key ecosystem service that supports agriculture and food security, with significant economic relevance. Yet, national-scale assessments remain scarce, despite their critical role in informing policy design and implementation. Here, we use Portugal as a case study to explore the temporal variation and economic value of insect pollinators in agricultural production. This study (…)

Leaf It Alone: Environmental Factors Outweigh Herbivory as Determinants of Plant Traits in a Mediterranean Mountain

Garcia, F; da Silva, AA; (...); Alves, J

2025

JOURNAL OF VEGETATION SCIENCE, 36(5)

Aim Herbivory has pronounced effects on ecosystems, altering plant community composition and structure while shaping functional traits, highlighting the need for a comprehensive analysis of its impacts, alongside the effects of abiotic factors known to affect plant communities. This study aimed to assess whether red deer herbivory pressure (measured by population density and feeding (…)

Genomic identification of conservation areas amid lineage divergence and admixture in a threatened island gecko

Brown, RP; Bianco, L; (...); Jin, YT

2025

BMC BIOLOGY, 23(1)

BackgroundIdentification of ancient evolutionary lineages and areas of natural admixture can have important implications for conservation policies aimed at preserving biodiversity in the face of existential threats. The island gecko Tarentola boettgeri is potentially threatened by the introduced California kingsnake (Lampropeltis californiae) within the relatively small oceanic (…)

Shark hotspot: Drivers for distribution and conservation in a tropical oceanic archipelago of the Atlantic Ocean

Wohak, K; Rangel, BD; (...); Pinheiro, HT

2025

PERSPECTIVES IN ECOLOGY AND CONSERVATION, 23(4), pp.255-262

Sharks play an essential role in maintaining the health of ecosystems, but many species are endangered and have locally disappeared around the world. Their management, where established Marine Protected Areas (MPAs) and strict fishing regulations exist, has contributed to the recovery and maintenance of shark populations. However, the overlap between shark populations (…)

Beyond Nutrition: The Therapeutic Promise of Seaweed-Derived Polysaccharides Against Bacterial and Viral Threats

Pereira, L and Valado, A

2025

MARINE DRUGS, 23(10)

In recent years, seaweed-derived polysaccharides have gained recognition as renewed potent bioactive compounds with significant antibacterial and antiviral properties. These polysaccharides include carrageenan, agar, agarose, and porphyran from red seaweed; fucoidan, laminarin, and alginate (alginic acid) from brown seaweed; and ulvan from green seaweed. Their diverse and complex (…)

Neanderthal morphology, behaviour and adaptation at Valdegoba Cave (Northern Spain) during late MIS 6-early MIS 5

Terradillos-Bernal, M; Demuro, M; (...); Fernandez-Lomana, JCD

2025

QUATERNARY SCIENCE REVIEWS, 369

Valdegoba Cave (Burgos, Spain) is a site of longstanding importance for studying Neanderthal behaviour and anatomy within the interior of the Iberian Peninsula. Previous research at Valdegoba has explored various aspects of Neanderthal life histories, including records of mitochondrial DNA and oral microbiomes, use of the mouth for manual tasks, and resource acquisition-particularly (…)

Antifungal potential of *Pterosiphonia complanata* (Clemente) Falkenberg against *Candida* spp.: Chemical composition and molecular docking insights
Benhniya, B; Lakhdar, F; (...); Etahiri, S
2026
JOURNAL OF MOLECULAR STRUCTURE, 1351
The Candida spp. being opportunistic pathogens, are usually found as part of the normal microbiota of the oral cavity, gastrointestinal, and urogenital tracts. These infections are on the rise, especially in immunocompromised individuals, and rising resistance to conventional antifungal agents has become a global concern. In this study, the methanol/dichloromethane extract (…)

Species introductions shift seed dispersal potential more than extinctions across 120 island plant-frugivore communities
Heinen, JH; Drake, DR; (...); Borregaard, MK
2025
PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, 122(41)
Oceanic islands are hotspots of both species extinctions and introductions, which led to marked changes in species composition. This may disrupt key ecological interactions, such as animal-mediated seed dispersal, with potential long-term impacts on ecosystem structure and functioning. While some recent studies on individual taxa and islands report functional shifts, there (…)

Valorization of Agri-Food Waste to Promote Sustainable Strategies in Agriculture and Improve Crop Quality with Emphasis on Legume Crop Residues
Zambela, A; Dias, MC; (...); Lorenzo, P
2025
AGRONOMY-BASEL, 15(10)
The valorization of agri-food by-products represents a promising approach to advancing sustainable agriculture while contributing to climate resilience efforts. Leguminous crops, cultivated extensively across diverse agroecological zones, play a central role in global food systems and soil fertility dynamics. Waste from leguminous crops can contribute essential nutrients to the soil, such (…)

Pantropical tree rings show small effects of drought on stem growth
Zuidema, PA; Groenendijk, P; (...); Babst, F
2025
SCIENCE, 389(6759), pp.532-538
Increasing drought pressure under anthropogenic climate change may jeopardize the potential of tropical forests to capture carbon in woody biomass and act as a long-term carbon dioxide sink. To evaluate this risk, we assessed drought impacts in 483 tree-ring chronologies from across the tropics and found an overall modest stem growth decline (2.5% with a 95% confidence interval of 2.2 to 2.7%)

Geographic variation in tick parasitism and impact on immune physiology of the lizard *Psammodromus algirus* across its distribution range
Garrido-Bautista, J; Moreno-Rueda, G; (...); Norte, AC
2025
ECOSISTEMAS, 34(2)
Haematophagous ectoparasites draw resources from their hosts, reducing host body condition and altering haematology and immune physiology. The tick Ixodes ricinus is a hard tick whose immature stages can infest the lizard host Psammodromus algirus along its geographic distribution. However, few studies have examined the associations between tick infestation and lizard (…)