

2024

1. EMO BON: European Marine Omics Biodiversity Observation Network (<https://www.embrc.eu/emo-bon/>)
2. 2024/07/01 - Current UNMASK - Unraveling Parkinson's disease diagnosis ERC-POC
3. 2024/01/01 - Current PROSPLIGN - Prospecting natural lignin biodiversity towards unlocking value-added bioactive motifs and molecules 101135298 European Commission
4. 2022/09/01 - Current HfPT - Health from Portugal HfPT - PRR Agência para a Competitividade e Inovação IP
5. 2022/01 - Current PROTEIOS - Protein Materials for non-invasive wound sensing PTDC/CTM-CTM/6101/2020
6. 2020/10/28 - 2025/03 PURE - Precisely Patterned Nanofibers for High Performance Bioseparations 899732 Researcher European Union EU Framework Programme for Research and Innovation Future and Emerging Technologies
7. New molecules harnessing targeted protein degradation for the treatment of Machado-Joseph disease CaixaResearch Health Call 2024
8. New Drugs that Modulate Tubulin Modifications to Enhance Taxol Treatment in Breast Cancer CaixaImpulse Health Innovation Program
9. Simulations for aptamer design (AptaSims) Research Council of Finland
10. Engaging Libraries of Promising Oxindoles as Tyrosine-Kinase Inhibitors in Cancer Target Therapy Fundação para a Ciência e a Tecnologia GRANT_NUMBER: 2022.02910.PTDC
11. Refining Antimicrobial Peptides with cutting-edge strategies to tackle infections by Nontuberculous Mycobacteria Fundação para a Ciência e a Tecnologia GRANT_NUMBER: PTDC/BIA-MIC/3458/2020
12. ExtremeOceans (PTDC/BIA-BMA/1494/2020). FCT, .i.p. (Portugal)
13. EASMO (BiodivClim 452). Biodiversa Consortium (Transnational)
14. Chance or curse? The consequences of hybridization in a changing world. Coordinator PI: Molly Schumer (Stanford University, USA). Participant PIs: Claudia Bank (IEE, University of Bern), Chelsea Rochman (University of Toronto, Canada), Vitor C Sousa (CE3C, Ciências, University of Lisbon, Portugal). Human Frontier Science Program – Young Researcher Award (RGY0081/2020).
15. DOFLOW: Impact of Dominance and Gene flow on Adaptation. PI: Vitor C Sousa. “Fundação para a Ciência e a Tecnologia” (FCT) ERC Portugal Program 1.HYBRIDOMICS: Can hybridization fuel adaptation and species response to environmental change? Genomics and proteomics of endemic Iberian freshwater fish. PI: Vitor C Sousa. FCT SR&TD Project Grant (PTDC/BIA-EVL/4345/2021) <https://doi.org/10.54499/PTDC/BIA-EVL/4345/2021>
16. EMBRC-ERIC (internal project of RI via EMBRC-PT)
17. Agromix - H2020. Cordis: <https://cordis.europa.eu/project/id/862993>)
18. Colaboração na experiência AMS da estação espacial internacional para deteção de raios cósmicos de energia intermédia Fundo CERN CERN/FIS-PAR/0007/2021

19. Collaboration in the ATLAS Experiment at CERN: Data Taking and Analysis Fundo CERN 2024.00227.CERN
20. PANDDDa: Physics Analysis and Next-generation Detector Design with Differentiable Algorithms Other 2023.00042.RESTART
21. ATLAS Experiment Upgrade Fundo CERN 2024.06584.CERN
22. Physics with UHECRs at the Pierre Auger Observatory Fundo CERN 2024.06879.CERN
23. aAmuse - advanced Muon Campus in US and Europe contribution H2020 aAmuse - Project 101006726
24. Precision timing with forward protons at the HL-LHC PTDC PTDC/FIS-PAR/1214/2021
25. Collaboration in the operation and physics data analysis at the CMS experiment at CERN Fundo CERN 2024.00238.CERN
26. Collaboration in the HL-LHC Upgrade of the CMS experiment at CERN Fundo CERN 2024.01191.CERN
27. Participation in the LUX-ZEPLIN experiment PTDC PTDC/FIS-PAR/2831/2020
28. PPatFCC_Participação Portuguesa no Futuro Colisionador Circular (FCC) Fundo CERN CERN/FIS-PAR/0035/2021
29. A Design Study for a Muon Collider complex at 10 TeV center of mass Horizon Europe MuCol - Proposal 101094300
30. NEXT: Detection of the neutrinoless Double Beta Decay in Xe-136-the NEXT experiment PTDC PTDC/FIS-NUC/3933/2021
31. EOSC-Future Horizon Europe EOSC-Future
32. An interdisciplinary Digital Twin Engine for science Horizon Europe interTwin (ID:101058386)
33. Artificial Intelligence for the European Open Science Cloud Horizon Europe AI4EOSC
34. A Digital Twin for GEOphysical extremes Horizon Europe DT-GEO
35. Imaging data and services for aquatic science (Grant Agreement 101058625) Horizon Europe iMagine
36. Suporte para o tier-2 de ATLAS e CMS no contexto do WLCG MoU entre Portugal e o CERN Fundo CERN CERN/FIS-COM/0018/2021
37. National Competence Centres for High Performance Computing Horizon Europe EuroCC 2
38. Integrated Activities for the High Energy Astrophysics Domain H2020 871158-AHEAD 2020
39. GLOSS: Gamma-ray Laue Optics and Solid State detectors (PRODEX Experiment Arrangement No. 4000136945) PRODEX 4000136945 GLOSS
40. TGF and High-energy astrophysics Observatory for gamma-Rays on board the Space Rider PRODEX 4000141332 THOR-SR Space Rider
41. Neutrinoless double beta decay search with the SNO+ experiment PTDC PTDC/FIS-PAR/2679/2021
42. ProtoDUNE at CERN: the path towards the DUNE neutrino experiment Fundo CERN 2024.00258.CERN
43. Multiquarks structure - Nuclear Physics and Strong Interaction Group Fundo CERN CERN/FIS-PAR/0023/2021
44. RENASCER_Estudos de reações nucleares para Astrofísica Nuclear na instalação ISOLDE do CERN
45. Fundo CERN CERN/FIS-PAR/0009/2021
46. Parâmetros atômicos para modelação de quilonovas Exploratórios 2022.06730.PTDC

47. ImprovingPT: Optimization, construction and first in-beam tests of range monitoring and quality assurance systems for the improvement of proton therapy Fundo CERN CERN/FIS-TEC/0017/2021
48. Yoctosecond imaging of QCD collectivity using jet observables H2020 835105 - YoctoLHC
49. The strong interaction at the frontier of knowledge:fundamental research and applications 824093 - STRONG-2020
50. THbridgeEXP-II_A ponte entre Teoria e Experiência: Fenomenologia de Colisionadores (II) Fundo CERN CERN/FIS-PAR/0032/2021
51. AIDAInnova H2020 101004761 AIDAInnova
52. RPCInnova - Advances in RPC detector technology targeting CERN experiments and applications for society Fundo CERN CERN/FIS-INS/0006/2021
53. LHC-SND_Participation in the SND@LHC experiment at CERN Fundo CERN CERN/FIS-INS/0028/2021
54. Excitações em materiais quânticos 2D/INL PTDC PTDC/FIS-MAC/2045/2021
55. Fake News and Real People - Using Big Data to Understand Human Behaviour H2020 853566 - FARE
56. Fake News Recommendations - an Auditing System of Differential Tracking and Search Engine Results Horizon Europe 101100653 - FARE_AUDIT
57. Expert Suport to BERM & RADEM units Other ESA: 4000137865/22/ES/JD
58. SWGO: the wide-field gamma-ray observatory at the Southern hemisphere PTDC PTDC/FIS-PAR/4300/2020
59. Portuguese Coastal Monitoring Network: CoastNET
60. Portuguese node of the Global Biodiversity Network: GBIF
61. Portuguese Biological data Network: BioData.pt / ELIXIR
62. LIFE-GARACHICO: Projeto cofinanciado pelo Programa LIFE, LIFE20 CCA / ES / 001641
63. C2IMPRESS: Projeto financiado pelo Horizon Europe Framework Programme (HORIZON) Research and Innovation Actions under grant agreement No 101074004.
64. CONNECT - Local coastal monitoring service for Portugal (Copernicus)
65. CONNECT + Local coastal monitoring service for Portugal (copernicus)
66. Digital Innovation Hub Attract
67. WOLLF - UN Ocean Decade

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National Computing Calls

1. 2024.09095.CPCA.A2 Computational Fluid Dynamics (CFD) application for marine and offshore structures
2. 2024.09383.CPCA.A2 Non-universal correction in the effective string theory of flux tubes
3. 2024.09991.CPCA.A0 Network heterogeneity and population dynamics
4. 2024.07879.CPCA.A1 Genome sequencing on Eurasian ancient and modern Human
5. 2024.09026.CPCA.A1 Automated Flat Circuit-Level Topology Generation
6. 2024.09342.CPCA.A1 The Cosmic Gamma-ray Horizon II
7. 2024.09848.CPCA.A1 Computational Exploration of V- and Nb-Containing Li-ion Conducting Glasses: From Ab Initio Molecular Dynamics Simulations to NMR Parameter Analysis

8. 2024.10018.CPCA.A1 Evaluating the Viability of BEAST Software for Accurate Phylogenetic Dating
9. 2024.18365.CPCA.A0 HOPES – Higher resolution Ocean forecasts through Portugal’s Enhanced numerical modelling Systems
10. 2024.13393.CPCA.A1 Combined Learning strategies for Multi-Agent Multi-Task Vehicle Routing Problems
11. 2024.18424.CPCA.A1 HPC4SE-NLEs – High-Performance Computing for Swarm and Evolutionary-Based Scalable Nonlinear Equation Solvers
12. 2024.18370.CPCA.A0 Sustainability Disclosure: Experimental Insights of Advanced Computing
13. 2024.13207.CPCA.A1 Predictive Maintenance through Diffusion Models: Addressing Data Imbalance and Scarcity in Wind Turbine Fault Prediction
14. 2024.18427.CPCA.A1 FST Lisboa – Improving Vehicle Aerodynamics
15. 2024.13866.CPCA.A0 High-Performance Computing for COMPUTationally designed thERmoelectrics used in waste HEAT harvesting (HPC4COMPUTERHEAT)
16. 2024.07901.CPCA.A2 CaCau: Cancer Causality for Precision Oncology | Phase 2 Model testing
17. 2024.07909.CPCA.A2 MoreThanPerfect: oPEncoasts as a Relocatable Forecast Engine for Coastal Digital Twins – part2
18. 2024.10172.CPCA.A1 Bayesian Structural Equation Modeling: Incorporating prior knowledge via elicitation
19. 2024.12862.CPCA.A1 Auto-Tuning Framework for Parallel Computing
20. 2024.12160.CPCA.A0 Benchmarking Deep Learning Approaches for Time Series Forecasting: Empirical Study and Meta-data Collection
21. 2024.08929.CPCA.A0 Numerical modeling in Docker on the Cloud
22. 2024.17878.CPCA.A0 DisTcoverAI – Discovery of new Distributed Algorithms with Artificial Intelligence
23. 2024.18373.CPCA.A0 Thermions-Cloud: Deployment and Analysis of the Thermions Parallel Scientific Application in the Cloud
24. 2024.00036.CPCA.A1 High-Performance Computing for Enhanced Virtual Power Plant Efficiency
25. 2024.00137.CPCA.A1 GEMINI (Digital twins for sustainable tourism futures)
26. 2024.00150.CPCA.A1 MOONSHAPES: measuring the shapes of millions of galaxies with spectroscopy follow-up
27. 2024.02766.CPCA.A0 Zoonomed – Iberian species of the Mediterranean ecosystem as reservoirs for emerging zoonotic viruses
28. 2024.03106.CPCA.A0 Transportation Mode Detection from GPS trajectory dataset.
29. 2024.03686.CPCA.A0 Wrinkles and all
30. 2024.06972.CPCA.A1 Application of COAWST for sediment transport studies on Madeira Island.
31. 2024.06986.CPCA.A1 Exploring LLMs for Mental Health Aiding Systems
32. 2024.06991.CPCA.A0 Climate Change and Public Health: Assessing Future Risks of Air Pollution and Heat-Related Mortality
33. 2024.07001.CPCA.A1 Hydrodynamics of marine and offshore structures based on Computational Fluid Dynamics (CFD)
34. 2024.07009.CPCA.A1 Limits of adaptation to climate change: combining new bioinformatic methods with genomic data from weasels and hares

35. 2024.07013.CPCA.A0 FLOOD FORECASTING FOR REGULARIZED RIVER BASINS USING MACHINE-LEARNING TECHNIQUES
36. 2024.07024.CPCA.A1 Modelling the Statistical Distribution of n-grams in Large Natural Language Corpora
37. 2024.07028.CPCA.A0 GPU-accelerated immune cell disentanglement using SVMs and CNNs
38. 2024.07034.CPCA.A0 Monitoring vegetation losses over Portugal from Sentinel-2 imagery
39. 2024.07038.CPCA.A1 Data analysis of Whole Genome Resequencing large size datasets.
40. 2024.07039.CPCA.A0 PLAYSAFE4ALL – An Open Access Sports Management, Injury Surveillance, Prevention and Education Platform for Amateur Sports
41. 2024.07056.CPCA.A0 Simulation of Separation Processes using a stationary solid phase: fixed bed and membranes.
42. 2024.07066.CPCA.A0 BroadAlert: Automatic Generation of Distributed Algorithms for IoT with Machine Learning
43. 2024.07086.CPCA.A1 HYPER-SOLVER: Hybrid Parallel and Distributed Swarm and Evolutionary Robust Optimization Algorithms for Solving Large-Scale Nonlinear Equation Systems and High-Dimensional PDEs
44. 2024.07087.CPCA.A1 FAULTAGE: Generating Fault-Tolerant Consensus Algorithms with Reinforcement Learning
45. 2023.10382.CPCA.A1 Variation of fundamental constants – Constraining models beyond the Standard Model of Cosmology
46. 2023.10436.CPCA.A1 SpikeLig: Affinity ligands towards the SARS-CoV-2 spike protein
47. 2023.10445.CPCA.A1 Genome sequencing on Eurasian ancient and modern Human
48. 2023.10478.CPCA.A1 Thermodynamics of Clathrate Hydrates containing CO₂
49. 2023.10635.CPCA.A1 Search for New Physics at the LHC
50. 2023.10743.CPCA.A1 Direct Optimization of Energetic Particles in Fusion Energy Devices
51. 2023.10781.CPCA.A1 Uncovering the Transport Mechanism of the Carboxylic Acid Transporters from *Aspergillus niger*
52. 2023.10782.CPCA.A1 The genomic ancestry of prehistoric human populations in Northern Portugal
53. 2023.11083.CPCA.A0 Computational Exploration of Large RNA Molecules through Molecular Dynamics Simulations
54. 2023.13303.CPCA.A0 “Reinforcement Learning for Vehicle Routing Problems with Time Windows
55. 2023.12001.CPCA.A1 Exploring Fundamental Molecular Processes in the Aggregation Inhibition of α -Synuclein: Study of Oligomers of the Full Protein and Truncated Variants
56. 2023.13974.CPCA.A1 Computational Exploration of Niobium-Containing Glasses: From Ab Initio Molecular Dynamics Simulations to NMR Parameter Analysis
57. 2023.14329.CPCA.A1 Paralelization of cpw2000
58. 2023.10894.CPCA.A1 Genome sequencing on Eurasian ancient and modern Human
59. 2023.10437.CPCA.A2 Computational Toolbox for Discovery of new Affinity Ligands
60. 2023.10452.CPCA.A2 Simulation of component dispersion in water – waterscd
61. 2023.10506.CPCA.A2 Simulation of gas-liquid and liquid-liquid flows in stirred systems
62. 2023.10526.CPCA.A2 Fundamental physics with neutron stars and their mergers
63. 2023.10584.CPCA.A2 Unveiling imidacloprid-aminoacids interactions by electronic-structure calculations – towards a pesticide adsorbing material

64. 2023.10649.CPCA.A2 ConfCof – How conformation and stacking influence electronic properties of Covalent Organic Frameworks. An ab-initio investigation.
65. 2023.10710.CPCA.A2 Optimizing MDR-Evading Drugs: Unveiling P-gp Transport Dynamics
66. 2023.10740.CPCA.A2 ComputReactors: Advanced computational design of novel chemical reactors
67. 2023.10811.CPCA.A2 Solvent-in-salt electrolytes for safe and efficient energy storage: Multiscale Theoretical Approach
68. 2023.10823.CPCA.A2 In silico design and optimization of peptides as biotechnological tools in the development of new cosmetic and pharmaceutical solutions
69. 2023.10857.CPCA.A2 Optical excitation of spin waves in 2D ferromagnets
70. 2023.10867.CPCA.A2 Journal of Data Science, Statistics, and Visualisation
71. 2023.10916.CPCA.A2 CaCau: Cancer Causality for Precision Oncology | Phase 2
72. 2023.11029.CPCA.A2 Effective string theory of flux tubes
73. 2023.10865.CPCA.A1 Secure Horizons: Transforming Healthcare with Federated Learning and Cloud Computing
74. 2023.10680.CPCA.A2 Investigations on Electrohydrodynamic Atomization: High-Fidelity Simulations of Taylor Cone Jet Atomization for Optimized Electrospray Processes
75. 2023.13332.CPCA.A0 iSTARS research platform for health data science
76. 2023.11060.CPCA.A1 Enhancing National Research Data Accessibility through Federated European Genome-phenome Archive
77. 2023.14342.CPCA.A1 Advanced Genomic Data Processing in Portuguese FEGA Node
78. 2023.10492.CPCA.A2 Capacity building in genomic epidemiology of viral threats through expansion of INSaFLU and training provision
79. 2023.10973.CPCA.A2 RePo-EfluxPump – Repurposing drugs to inhibit antibiotic efflux pumps.
80. 2023.10427.CPCA.A0 Simulation of neutral and stratified atmospheric flows for wind energy applications using OpenFOAM coupled with mesoscale model simulations
81. 2023.10485.CPCA.A0 WindSyn – Large scale wind data modelling, forecasting and synthetic generation
82. 2023.10664.CPCA.A0 Deep generative models for data augmentation in fault detection
83. 2023.10733.CPCA.A0 Unsteady Ventilation CFD simulation on test room
84. 2023.10769.CPCA.A0 NNx3D: Neural Networks and ion beam analysis techniques for 3D imaging
85. 2023.10672.CPCA.A0 CFD computation of the heat transfer and pressure loss coefficients for CORE type power transformer windings.
86. 2023.10667.CPCA.A0 New systems simulations for thermal energy storage

Revision #17

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