

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

Nacional 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-Tunning 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. 2024.00036.CPCA.A1 High-Performance Computing for Enhanced Virtual Power Plant Efficiency
26. 2024.00137.CPCA.A1 GEMINI (Digital twins for sustainable tourism futures)
27. 2024.00137.CPCA.A1 GEMINI (Digital twins for sustainable tourism futures)
28. 2024.00150.CPCA.A1 MOONSHAPES: measuring the shapes of millions of galaxies with spectroscopy follow-up
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30. 2024.02766.CPCA.A0 Zoonomed – Iberian species of the Mediterranean ecosystem as reservoirs for emerging zoonotic viruses
31. 2024.02766.CPCA.A0 Zoonomed – Iberian species of the Mediterranean ecosystem as reservoirs for emerging zoonotic viruses
32. 2024.03106.CPCA.A0 Transportation Mode Detection from GPS trajectory dataset.
33. 2024.03686.CPCA.A0 Wrinkles and all
34. 2024.06972.CPCA.A1 Application of COAWST for sediment transport studies on Madeira Island.
35. 2024.06986.CPCA.A1 Exploring LLMs for Mental Health Aiding Systems
36. 2024.06991.CPCA.A0 Climate Change and Public Health: Assessing Future Risks of Air Pollution and Heat-Related Mortality
37. 2024.07001.CPCA.A1 Hydrodynamics of marine and offshore structures based on Computational Fluid Dynamics (CFD)
38. 2024.07009.CPCA.A1 Limits of adaptation to climate change: combining new bioinformatic methods with genomic data from weasels and hares
39. 2024.07013.CPCA.A0 FLOOD FORECASTING FOR REGULARIZED RIVER BASINS USING MACHINE-LEARNING TECHNIQUES

40. 2024.07024.CPCA.A1 Modelling the Statistical Distribution of n-grams in Large Natural Language Corpora
 41. 2024.07028.CPCA.A0 GPU-accelerated immune cell disentanglement using SVMs and CNNs
 42. 2024.07034.CPCA.A0 Monitoring vegetation losses over Portugal from Sentinel-2 imagery
 43. 2024.07038.CPCA.A1 Data analysis of Whole Genome Resequencing large size datasets.
 44. 2024.07039.CPCA.A0 PLAYSAFE4ALL – An Open Access Sports Management, Injury Surveillance, Prevention and Education Platform for Amateur Sports
 45. 2024.07056.CPCA.A0 Simulation of Separation Processes using a stationary solid phase: fixed bed and membranes.
 46. 2024.07066.CPCA.A0 BroadAlert: Automatic Generation of Distributed Algorithms for IoT with Machine Learning
 47. 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
 48. 2024.07087.CPCA.A1 FAULTAGE: Generating Fault-Tolerant Consensus Algorithms with Reinforcement Learning
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