

# 2021

New FCT and international funded projects supported by INCD in 2021.

1. PTDC/BIA-EVL/1100/2020
  - "Harnessing comparative genomics to understand the role of horizontal acquired genes in the evolution of yeast metabolism"
2. POCI-01-0247-FEDER-039890
  - GIIP - Gestão inteligente de infraestruturas portuárias (POCI-01-0247-FEDER-039890 - GIIP - Gestão Inteligente de Infraestruturas Portuárias)
3. Portal de dados da Lista Vermelha da Flora Vascular de Portugal Continental
  - URL: <https://lvf.flora-on.pt/>
4. Flora-On – Flora de Portugal Interactiva
  - URL: <https://flora-on.pt/> (over 1 million access over 200.000 users)
5. DSAIPA/DS/0102/2019
  - Debaqi: fatores para a promoção do diálogo e comportamentos saudáveis em comunidades escolares online
6. PTDC/PSI-GER/31943/2017
  - Paterson □ Prototyping medical acoustic environments for the design of new auditory warning signals
7. UIDB/04378/2020
  - Applied Molecular Biosciences Unit;
8. PTDC/QUI-QFI/31689/2017
  - RDB-TS: A reaction database for transition state information from quantum chemical calculations;
9. PTDC/ASP-AGR/30154/2017
  - Biopesticides and Food Preservatives from Nanoencapsulated Plant Extracts: Biological Evaluation, Molecular Modelling and Synthesis;
10. 2020.01423.CEECIND
  - Development of Biocatalysts for Industrial Applications: From plastic degradation to the pharmaceutical chemistry
11. PTDC/BIA-BMA/1494/2020
  - ExtremeOceans - Unravelling evolutionary physiology landscapes of coastal marine fauna under extreme temperatures using a multi-layer Systems Biology approach
12. FA\_05\_2017\_007
  - The MARVEN Project – The Portuguese biotechnological database for marine animal venoms and toxins
13. PTDC/BTA-BTA/28650/2017
  - WormALL– Marine invertebrates as source of novel biotoxins: Investigating function and application through Polychaeta venomomics
14. 2021.07128.BD
  - Rational Development of Nanomedicines for Cardiovascular Diseases.
15. 2020.09087.BD

- In Silico Optimization of Biocatalysts for Plastic Biodegradation.
16. SFRH/BD/147276/2019
    - Development of biocidal formulations for effective biofouling control.
  17. SFRH/BD/136594/2018
    - Innovative approach to fight tuberculosis and malaria targeting the extraordinary PLP synthase macromolecular complex.
  18. SFRH/BD/137844/2018
    - New Drugs Against Biofilm Formation and Development: a Computational and Experimental Approach.
  19. SFRH/BD/136746/2018
    - Rational development of new biocatalysts for the production of Parkinson Disease Drugs.
  20. PD/BD/128032/2016
    - Novel insights on the interaction of lactoferrin with proton pumping ATPases towards understanding its antifungal and anticancer activities
  21. SFRH/BD/115396/2016
    - Computational studies addressed to PLP-Dependent enzymes
  22. SFRH/BD/114886/2016
    - Computational studies addressed to multifunctional enzyme complexes
  23. PTDC/ASP-HOR/31074/2017
    - DNA barcoding aromatic, medicinal, and condiment plants from Portugal
  24. Devising strategies to detect, reduce and eliminate taint producing Alicyclobacillus spp. in food products 2020.08210.BD
    - Tecnologias Agrárias e Alimentares Portugal Universidade Nova de Lisboa
  25. PTDC/EME-REN/30866/2017
    - Harbour protection with dual chamber oscillating water column devices (HARBOUR OWC)
  26. CERN/FIS-PAR/0033/2019
    - ATLAS Upgrade 2019/20
  27. CERN/FIS-PAR/0002/2019
    - Collaboration in the ATLAS experiment at CERN (2019-2021)
  28. CERN/FIS-PAR/0010/2021
    - Collaboration in the ATLAS experiment at CERN (2021-2023)
  29. CERN/FIS-PAR/0026/2021
    - C-ATLAS Upgrade 2021/23
  30. CERN/FIS-INS/0032/2019
    - Collaboration in the operation and physics data analysis at the CMS experiment at CERN
  31. CERN/FIS-PAR/0025/2019
    - Collaboration in the operation and physics data analysis at the CMS experiment at CERN
  32. CERN/FIS-INS/0029/2021
    - Collaboration in the Phase 2 Upgrade of the CMS experiment at CERN
  33. PTDC/FIS-PAR/1214/2021
    - Precision timing with forward protons at the HL-LHC
  34. CERN/FIS-PAR/0005/2021

- Collaboration in the operation and physics data analysis at the CMS experiment at CERN
35. 824093 - STRONG-2020
    - The strong interaction at the frontier of knowledge: fundamental research and applications
  36. 835105 - YoctoLHC
    - Yoctosecond imaging of QCD collectivity using jet observables
  37. CERN/FIS-PAR/0029/2019
    - Estudos fenomenológicos em LHC na física de quarks top e bósons de Higgs
  38. CERN/FIS-PAR/0024/2019
    - Bridging Theory and Experiment: Collider Phenomenology
  39. CERN/FIS-PAR/0010/2019
    - Methods for Understanding Strong Interactions with Quarkonia
  40. CERN/FIS-PAR/0037/2021
    - TopHiggsPheno - Estudos Fenomenologicos em LHC na Física de Quarks Top e Bósons de Higgs
  41. EXPL/FIS-PAR/0905/2021
    - TopHiggsPheno - Estudos Fenomenologicos em LHC na Física de Quarks Top e Bósons de Higgs
  42. EXPL/FIS-PAR/1195/2021
    - The Strong force and multiparticle dynamics at hadron colliders
  43. CERN/FIS-PAR/0032/2021
    - The Strong force and multiparticle dynamics at hadron colliders
  44. CERN/FIS-PAR/0022/2019
    - Collaboration in the COMPASS and AMBER experiments at CERN
  45. CERN/FIS-PAR/0016/2021
    - COMPASS/AMBER\_Colaboração nas Experiências COMPASS e AMBER do CERN
  46. IF/00898/2015
    - Expl. 2015\_VL - IF/00898/2015\_Multiquarks
  47. CERN/FIS-PAR/0023/2021
    - Nuclear Physics and Strong Interaction
  48. CERN/FIS-PAR/0013/2019
    - Collaboration in the International Space Station Experiment AMS for the detection of intermediate energy cosmic rays
  49. CERN/FIS-PAR/0007/2021
    - AMS-LIP\_Colaboração na experiência AMS da estação espacial internacional para detecção de raios cósmicos de energia intermédia
  50. CERN/FIS-PAR/0034/2019
    - Enhancement of the measurement capabilities of the Pierre Auger Observatory
  51. CERN/FIS-PAR/0031/2019
    - UHECR Physics with the Pierre Auger Observatory
  52. CERN/FIS-PAR/0012/2021
    - AugerEnhance\_Aprimoramento das capacidades de medição do Observatório Pierre Auger
  53. CERN/FIS-PAR/0020/2021
    - UHECR@Auger\_UHECR Physics with the Pierre Auger Observatory
  54. PTDC/FIS-PAR/29158/2017 and POCI/01-0145-FEDER-029158

55. LATTES: an innovative detector for very high energy gamma ray astrophysics in the southern hemisphere
56. PTDC/FIS-PAR/4300/2020 SWGO: the wide-field gamma-ray observatory at the Southern hemisphere
57. IF/00248/2015/CP1311/CT0001 Expl. 2015\_VL - IF/00248/2015/CP1311/CT0001
58. CERN/FIS-PAR/0012/2019 Underground Neutrino Physics: Participation in the DUNE and SNO+ experiments
59. CERN/FIS-PAR/0014/2021 DUNE\_Calibração de ProtoDUNE-II no CERN
60. CERN/FIS-PAR/0014/2021 DUNE\_Calibração de ProtoDUNE-II no CERN
61. ESA: 1-7560/13/NL/HB
  - RADEM proto-flight model
62. INCD 01/SAICT/2016
  - Infraestrutura Nacional de COmputação Distribuída
63. EOSC-hub EC grant 777536
  - Integrating and managing services for the European Open Science Cloud
64. EOSC-synergy EC grant 857647
  - European Open Science Cloud - Expanding Capacities by Building Capabilities
65. EGI-ACE EC
  - Implementing the European Open Science Cloud
66. FARE (ERC) EC grant 853566
  - Fake News and Real People
67. PTDC/FIS-PAR/29147/2017 and POCI/01-0145-FEDER-029147
  - BigDataHEP: Understanding Big Data in High Energy Physics: finding a needle in many haystacks
68. PTDC/FIS-MAC/2045/2021
  - Excitações em materiais quânticos 2D/INL
69. CERN/FIS-COM/0004/2021
  - QML-HEP\_Explorando a aprendizagem de máquina quântica como uma ferramenta para colisionadores de altas energias presentes e futuros
70. EXPL/FIS-OUT/1185/2021
  - Muography as a new tool for geophysics
71. PTDC/CCI-COM/30142/2017 AQUAMON: Monitorização Confiável em Ambientes Aquáticos com Redes de Sensores sem Fios
72. ANI Sinergeia Sistema inteligente para apoio ao uso eficiente de recursos e à gestão de emergências de inundação e de contaminação balnear em cidades costeiras
73. PTDC/CTA-AMB/28909/2017 MOSAIC.pt - Análise do risco de inundação costeira a partir de múltiplas fontes para comunidades seguras e desenvolvimento sustentável

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