



Enhancing National Research Data Accessibility through FEGA Environment

Jorge S. Oliveira^a, Jorge Silva^b

^aINESC-ID & DEI-IST, Lisbon University, Lisboa, Portugal.
jorge.oliveira@tecnico.ulisboa.pt

^bIETA-DETI, LASI, Aveiro University, Aveiro, Portugal.
jorge.miguel.ferreira.silva@ua.pt

Resumo

This project aims to establish a national node for the Federated European Genome-phenome Archive (FEGA), a service coordinated by ELIXIR. ELIXIR Portugal has been collaborating on this initiative since 2015, now reaching a production level of maturity. INESC-ID, as a member of the ELIXIR Portugal consortium, supported the initial FEGA development. Since 2022, the BioData.pt Association has managed the ELIXIR Portugal node and signed, in October 2023, the EGA Collaboration Agreement, assuming responsibility for implementing and developing the Portuguese FEGA node (fegaportugal.biodata.pt).

The establishment of the Portuguese FEGA node represents a significant advancement in managing national scientific research data. As a centralized hub, FEGA will offer secure data storage with advanced features, including robust data encryption, reliable backup systems, and efficient data access. Its development addresses a critical national need for a repository capable of handling sensitive human genomic data, thus filling a significant gap in the country's research infrastructure.

This project goes beyond data management; it empowers the scientific community to handle large-scale, sensitive genomic data more effectively and securely, aligning with global standards of data privacy and security. Leveraging available computational resources, the FEGA node will ensure data integrity and accessibility, enhancing the capacity for groundbreaking research and innovation.

Our dissemination plan, aimed at enhancing the visibility and application of the FEGA environment within the scientific community, includes sharing outcomes and insights through academic publications, workshops, and a dedicated website. This initiative, deeply rooted in its commitment to scientific advancement and data security, positions the national FEGA node as a pivotal resource in the landscape of genomic research.

Palavras-chave: Data Processing, Genomic Analysis, National Research Projects, Data Management, Secure Data Storage

Designação do projeto/infraestrutura/iniciativa

Federated Genome-phenome Archive Portugal / Managed by BioData.pt / Hosted in FCCN

Público-alvo

Sensitive data holders, data stewards, bioinformaticians, Health and Life Sciences Researchers and Medical Doctors

Ligações web úteis

fegaportugal.biodata.pt