Submit your research data to Swiss FEGA

What is FEGA?

- Federated European Genome-phenome Archive: a global resource supporting and maximizing the discovery of, and secure access to, sensitive human data.
- Repository for human genomic, phenotypic and clinical data.
- One national node per country that stores data locally; Swiss FEGA in Switzerland.
- Available datasets searchable via the Central EGA catalogue (public metadata).
- Compliant with national data protection regulations, national genomics initiatives, and data governance.
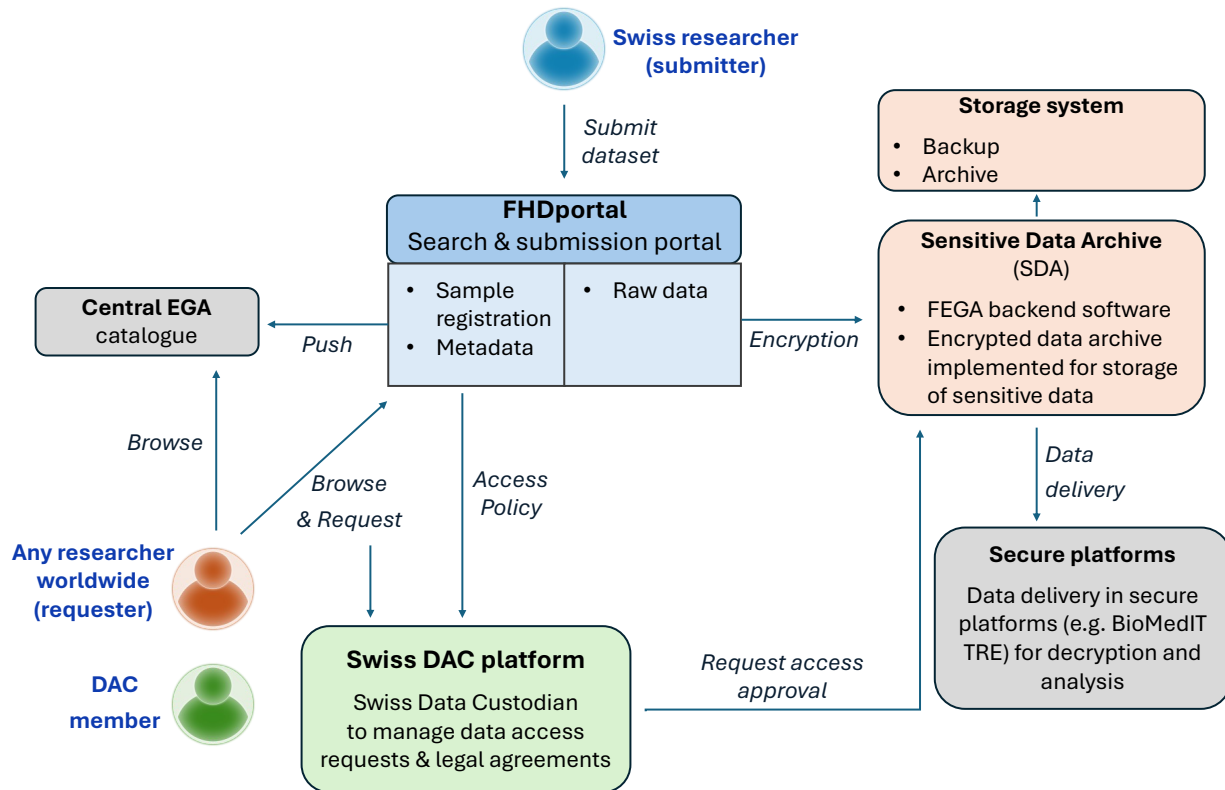- See the [FEGA website](#) for more information.

Why deposit your data in Swiss FEGA?

- **Get your work published** by complying with journal and funder requirements for data availability (e.g., accession codes).
- **Allow data sharing and reuse** within the genomic and bioinformatic communities – in line with the FAIR principles (Findable, Accessible, Interoperable, and Reusable) and compatible with interoperability standards adopted by global initiatives (e.g. [GA4GH](#), [ELIXIR](#), [1+ Million Genome Initiative](#), [GDI](#)).
- **Promote your work** within the European and global scientific communities.
- **Help Switzerland unlock patient '-omics' data** to boost healthcare research and personalized medicine.
- **Ensure your shared data remains in Switzerland** under the Swiss law and regulations.
- **Free core archiving services**; there may be costs for additional services such as data processing on Trusted Research Environments or additional analysis support.

What happens with your data?

- On submission, metadata are stored in the Swiss FEGA portal (powered by FHDportal, hosted on Switch Cloud) where researchers and clinicians can find your data and request access.
- A subset of metadata is pushed to the Central EGA catalogue so researchers and clinicians worldwide can similarly find your data.
- Encrypted data are stored on [Switch Cloud](#), with a copy in their two Zurich data centres.
- Data access is managed by the Data Access Committee (DAC) you nominate, supported by the Swiss DAC platform (provided by the Swiss Data Science Center (SDSC), hosted on Switch Cloud).
- When access is granted, the data can be delivered to requestor organizations or accessed on a Trusted Research Environment (TRE, such as [BioMedIT](#)) for decryption and analysis.

Swiss FEGA set up

How do you submit your data?

- Log in the Swiss FEGA portal *(link to come)* using Switch eduID.
- Request a submitter role by signing a Data Transfer and Processing Agreement (DTPA) to let Swiss FEGA handle and publish your dataset.
- Prepare your metadata for submission, aligning with the EGA metadata schema *(link to come)* and validating using tools (e.g. FHDportal CLI - *link to come*) from the Swiss FEGA portal.
- Upload your data and metadata to the Swiss FEGA node via FTP, using the submission form on the Swiss FEGA portal *(link to come)*. Note that the submitted data must be encrypted to prevent unauthorized access. The detailed procedure for encrypting your data using crypt4gh is available on the Swiss FEGA portal *(link to come)*.
- Assign a Data Access Committee (either an existing DAC or a new one you create) and an access policy to your dataset.
- Publish your dataset in the Swiss FEGA portal and the metadata in the Central EGA catalogue.
- Contact the Swiss FEGA Helpdesk at support@fega.swiss if you have any questions or need support to submit your data.

Swiss FEGA is a collaboration between ETH Zürich - Scientific IT Services, Health 2030 Genome Center, Swiss Data Science Center, and Switch, coordinated by the SIB - Swiss Institute of Bioinformatics and supported by the Swiss Personalized Health Network (SPHN).