

DECISION

DEcompensated ClrrhoSIs: identification of new cOmbiNatorial therapies based on systems approaches

H2020 - 847949

D1.8 Deposit of Transcriptomic data to European Genome-phenome Archive (EMBL)

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Abbreviations

ENA European Nucleotide Archive

DECISION Decompensated cirrhosis: Identification of new combinatorial

therapies based on systems approaches

DMC Data Management Centre

DMP Data Management Plan

ID Identifier

SC Steering Committee

WP Work Package

EGA European Genome-phenome Archive

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Contributors

Contributor	Contribution	Estimate of person-months
FCRB, coordination	 Prepared and processed data from INSERM. Standardized nomenclature to identify the patients. Preparation of databases with phenotypes for the analyses. Curation and submission of the data to ENA. 	0.25 PM
EFCLIF	Writing of the deliverable report	0.25 PM
Genosplice and EFCLIF	 Prepared and processed data from INSERM. Standardized nomenclature to identify the patients. Preparation of databases with phenotypes for the analyses. Curation and submission of the data to ENA. 	0.50 PM
АРНР	Deliverable review, correspondence and involvement in discussions	0.25 PM

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Executive Summary

The tasks included in the Deliverable have been carried out by the INSERM in collaboration with WP1 leader and other partners providing multi-omics data.

Transcriptomic data of 1.261 individuals from Canonic, Predict and Aclara cohorts have been submitted in the ENA's sub platform (Figure 1). The submission was performed by uploading a spreadsheet template available in the platform.

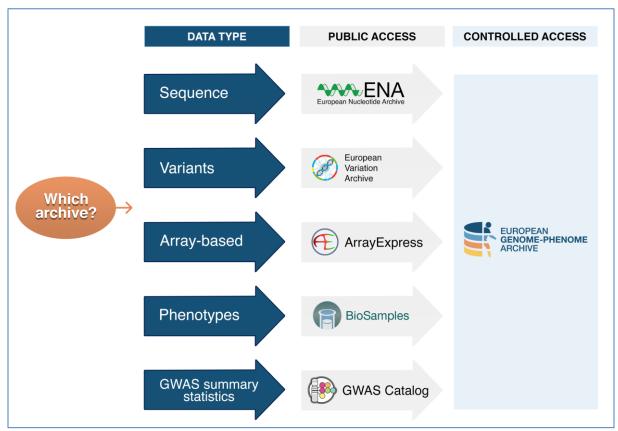


Figure 1. Structure of EGA Sub platform

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1 PREPARING THE DATABASE

1.1 Getting ready the data for the submission to ENA

Transcriptomics data of the DECISION project has been obtained by extracting and sequencing whole blood tempus tube samples.

Sequence of the samples was performed using Illumina NovaSeq 6000 system and the library NuGEN Universal Plus mRNA-seq kit woGlobin via RNA fragmentation, first and second strand synthesis, end repair, adaptor ligation, strand selection and library amplification.

The EGA archive is a controlled access database that allows the submission of many types of data (genomics, transcriptomics etc.)

Data types accepted by EGA can be split into 3 types as shown in Figure 2.

- Sequence data
- Array-based data
- Phenotype data

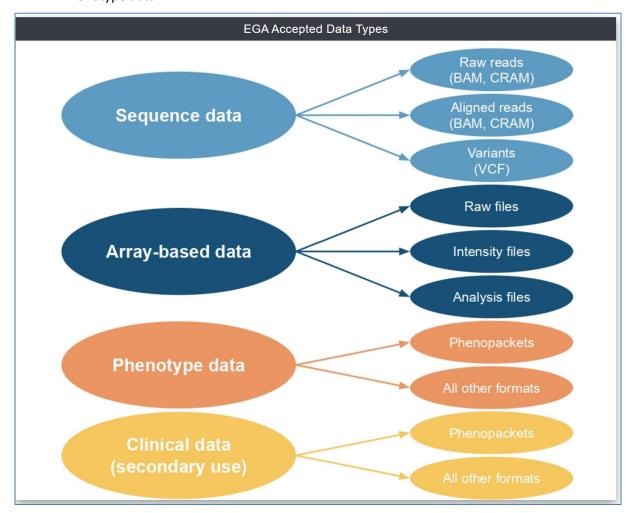


Figure 2. Data types accepted by EGA $\,$

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1.2 Submitting data to EGA's platform

The sequence reads were submitted uploading the CRAM files and an md5 code was generated and assigned to each sample.

Submission of information about the sequence data was made through 2 spreadsheet templates available in the platform: one for the samples and the second one for the reads corresponding to each sample.

To perform the submission, detailed information about the samples and the corresponding raw data files was uploaded to the website and validated by the Institution (Figures 3 and 4)

- Tax ID
- Scientific Name
- Sample Alias
- Sample title
- Sample Description

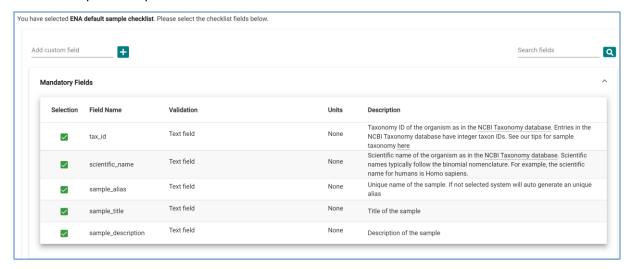


Figure 3. Required information about the samples

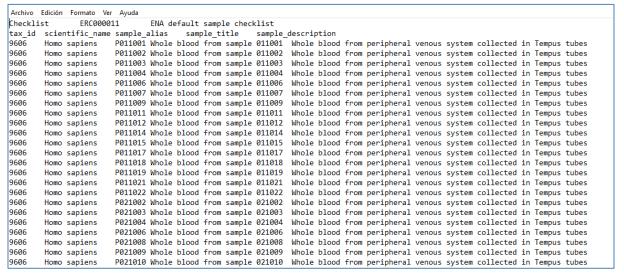


Figure 4. Detailed information of raw data

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After all this information was provided, the samples were uploaded to the platform and linked to each ID

Once the data had been submitted, the data could be accessed through an accession number. The BioProject accession (primary) is PRJEB56149 and the study accession (secondary) is ERP141065.

The date of public release of the data was set to 20/09/2024 and it can be modified if needed according to the dissemination rules of DECISION project.

2 Acknowledgement and Disclaimer

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This report reflects only the author's view and the Commission is not responsible for any use that may be made of the information it contains.

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