Vivaldi Project

Data management plan

Mussel hemocytes stimulation in vitro

Mytilus galloprovincialis
Hemocytes
In vitro stimulation

31/07/2018

DATA MANAGEMENT PLAN

Template sheet for each dataset

Partner name	*CSIC*
Data category	*Transcriptome (host)*
Concerned WP	*WP2*
Name of the VIVALDI referent(s)	*Transcriptome: Beatriz Novoa & Paola Venier*
Reference of the dataset *Please refer to the DMP table to find the appropriate reference.* *Ex: Genome-Patho/SubTaskN°/Pathogen/PartnerN°*	*Transcriptome-host/2.4.1/mussel_in vitro/CSIC*
Description of the data	*Raw data without trimming in fastq format* *Transcriptomic information* *Processed data will be a de novo assembled fasta transcriptome*
Type	*Sequences*
Period and frequency of data collection	*Hemolymph from raft mussels were withdrawn and pooled, set in 6 well plates and stimulated with different molecules. Samples were collected 8h after the stimulation and RNA was extracted.*
Geographical site of data collection (if applicable)	*The mussels origin was the Ría de Vigo (raft mussels). The experiment was carried out in lab controlled conditions.*
Description of the material from which the dataset is generated *Information will be obtained from individuals, which can come from natural/hatchery population and/or from family produced in hatchery. Animals can be infected (naturally or experimentally). DNA extraction can be done from the whole animal, tissue.*	*Transcriptomic information has been obtained from hemocytes treated in vitro.* *RNA was extracted following the Maxwell (promega) protocol.* *Each sample (below, correspondence with the sampling table) belongs to a pool of 25 mussels (3 replicates) and a specific stimulation (4 different stimulus + a control):* *CSIC-2.1.1.1_2017 CSIC-2.1.2.1.1_2017 CSIC-2.1.2.1.2_2017* *CSIC-2.1.2.1.3_2017 CSIC-2.1.2.1.4_2017* *CSIC-2.1.2.1_2017 CSIC-2.1.2.2.1_2017 CSIC-2.1.2.2.2_2017* *CSIC-2.1.2.2.3_2017 CSIC-2.1.2.2.4_2017* *CSIC-2.1.3.1_2017 CSIC-2.1.2.3.1_2017 CSIC-2.1.2.3.2_2017* *CSIC-2.1.2.3.3_2017 CSIC-2.1.2.3.4_2017*
Protocols *Example: 16S ribosomal RNA gene sequencing by NGS* ***Please refer to the DMP table* for more examples***	*Quality control of samples and preparation of the libraries was performed in Macrogen Korea* *mRNA sequencing by Illumina paired-end, TruSeq Stranded mRNA LT, HiSeq 4000*

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Nature of the collected/generated data *Example: Raw dataset in .blc/.fastqc/.fasta formats for genomic information, and processed datas set will be .vcf/.bed formats.* ***Please refer to the DMP table* for more examples***	*Raw data without trimming in fastq format* *Transcriptomic information* *Processed data will be a de novo assembled fasta transcriptome*
Coverage (if applicable) *Example: random genomic regions covered at 50 X* ***Please refer to the DMP table* for more examples***	*Approximately 90x: an average of 70 million reads per sample*
What are the prerequisites allowing to use the data as such? *Example: Any person able to use .fastqc file and .fasta file* ***Please refer to the DMP table* for more examples***	*Any person who can deal with fasta quality files*
Sharing of main data	*Saved and shared after publication* *Accession number to download the raw reads will be available at NCBI SRA after publication (BioProject PRJNA470760)*
Archiving and preservation *Example: data will be stored on a hard drive + online back up and then will be released on public database (Sinoe, Dryad) after publication.* ***Please refer to the DMP table* for more examples***	*Data will be stored in our hard disks and in NCBI SRA repository.* *It is foreseen to have another copy in an internal server of CSIC.* *Data will be of public accession after publication (BioProject PRJNA470760)*
List, description and storage of associated data (metadata) *Examples: environmental data, mortality monitoring, genotyping…*	*NA*
Sharing of metadata (if relevant)	*No relevant* *NA*

*To access the DMP table, please login on the VIVALDI online platform

Once completed, this sheet has to:

1. **Be sent to the referent(s) identified above for a final check**
2. **Be uploaded on the VIVALDI online platform**

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