ADRIÀ MITJAVILA VENTURA

Bioinformatician at *Istituto Europeo di Oncologia* | MSc

Biotechnologist living around computers, interested in data analysis to support experimental research as well as in pure (bio)computational experiments and in software/pipeline development. More on my website.

EXPERIENCE

08/2021 | Present — **Bioinformatician**
Institut Josep Carreras, **Vavouri's lab** — Badalona, Spain

07/2019 | 07/2021 — **Bioinformatician**
Istituto Europeo di Oncologia, **Pasini's lab** — Milan, Italy

- Study of Wnt/βcatenin signaling pathway -and others- in the context of colorectal cancer and stem cell development.
- Analysis and integration of RNA-seq, ChIP-seq and ATAC-seq data.
- Development of a Snakemake pipeline for ATAC-seq.

09/2017 | 10/2018 — **Master's thesis student & Research assistant**
Instituto de Biomedicina de Sevilla, **Gene expression** — Seville, Spain

- Study of Xrn1 and Ccr4 roles in yeast nucleosome architecture and gene transcription.
- Analysis of MNase-seq data. Performance and analysis of MNase-qPCR experiments.

09/2016 | 06/2017 — **Internship & Bachelor's thesis student**
Microbial. Sistemes i aplicacions analítiques, S.L. — Girona, Spain

- Microbiological and molecular analyses for pathogen detection and food forensics.
- Study of butyrate effects on the ileal microbiota of colectomized colorectal cancer patients.
- qPCR of intestinal biopsies to detect/quantify bacterial genders.
- Statistical analysis of high-throughput sequencing data to quantify bacteria species.

EDUCATION

2018 | Present — **MSc in Bioinformatics and Biostatistics**
Universitat Oberta de Catalunya — Online

2017 | 2018 — **MSc in Molecular Genetics and Biotechnology**
Universidad de Sevilla - *Grade: 9.33/10* — Seville, Spain

- Master's thesis: *Influence of Xrn1 in nucleosome positioning across Saccharomyces cerevisiae genome and its effects in transcription*. Grade: 9.2/10

2012 | 2017 — **BSc in Biotechnology**
Universitat de Girona - *Grade: 8.12/10* — Girona, Spain

- Bachelor's thesis: *Butyrate-induced changes in the diversity of intestinal mucosa-associated microbiota in colorectal cancer patients submitted to a lateral ileostomy.* Grade: 9.4/10

PUBLICATIONS

2020 — **Xrn1 influence on gene transcription results from the combination of general effects on elongating RNA pol II and gene-specific chromatin configuration**
Begley V *et al.* RNA Biology. DOI: 10.1080/15476286.2020.1845504.

CONTACT

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SKILLS

Omics data analysis:

Microarray, RNA-/ChIP-/ATAC-/MNase-seq

Programming/scripting:

R/Bioconductor, Python, Bash

Other (informatics):

R Markdown, Snakemake, Git, HPC, Conda, Docker

Experimental:

(RT-)(q)PCR, primer design, electrophoresis, WB, MNase-digestion, bacterial culture

Languages:

Catalan (Native), Spanish (Native), English (C1 - IELTS 7.5), Italian (Basic)

DEVELOPMENT

`chromHMMviewR`
DPomics (*ongoing*)
ATAC-seq snakemake (*ongoing*)
More on my GitHub profile

References available upon request.
*Build with **pagedown**, code here.*
Last updated on 2021-05-27.