ADRIÀ MITJAVILA VENTURA

Bioinformatician at *Istituto Europeo di Oncologia*

Biotechnologist living around computers. Interested in data analysis to support experimental research as well as in pure computational experiments and in software/pipeline development.

References available upon request.

💻 EXPERIENCE

07/2019
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Present

Bioinformatician
Istituto Europeo di Oncologia ● Milan, Italy

Pasini's lab
Analysis of omics data analysis (RNA-seq, ChIP-seq, ATAC-seq) | Comparison of different ATAC-seq peak callers. | Development of an ATAC-seq pipeline for Snakemake.

07/2018
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10/2018

Research Assistant
Instituto de Biomedicina de Sevilla ● Seville, Spain

Gene expression lab
Analysis of MNase-seq data from Ccr4-mutant yeast.

09/2017
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07/2018

Master's thesis student
Instituto de Biomedicina de Sevilla ● Seville, Spain

Gene expression lab
Analysis of MNase-seq data from Xrn1-mutant yeast | MNase-qPCR experiments, including MNase DNA digestion, primer desing, qPCRs and analysis.

• Supervisors: Dr. Sebastián Chávez de Diego and Dr. Gabriel Gutierrez Pozo.
• MSc degree in Molecular Genetics and Biotechnology.

07/2017
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09/2017

Internship student
Institut d'Investigació Biomèdica de Girona ● Girona, Spain

Unit of Diabetes, Endocrinology and Nutrition
Identification of new factors (genetic and bacterial) related to adipose tissue physiology and obesity.

01/2017
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06/2017

Bachelor's thesis student
Microbial. Sistemes i aplicacions analítiques, S.L. ● Girona, Spain

DNA extraction of intestinal mucosa biopsies | qPCR experiments to detect clusters and families of bacteria | NGS data analysis to quantify bacterial genders in intestinal biopsies.

• Supervisor: Prof. Jesús García-Gil.
• BSc degree in Biotecnology.

09/2016
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06/2017

Internship student
Microbial. Sistemes i aplicacions analítiques, S.L. ● Girona, Spain

Microbiological and molecular analyses of food and water samples to search for pathogens and perform food forensics.

CONTACT

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 /amitjavilaventura
🔗 0000-0002-0337-1929
 BioBit

SKILLS

Omics data analysis:

Microarray
RNA-seq
ChIP-seq
ATAC-seq
MNase-seq

Programming/scripting:

R/Bioconductor
Bash
Python

Other:

Snakemake
Conda
Docker
Git

Experimental:

DNA extraction…
(q)PCR
Electrophoresis
Western blot
MNase-digestion
Bacterial/yeast culture

Languages:

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

🎓 EDUCATION

2018
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Present

MSc in Bioinformatics and Biostatistics
Universitat Oberta de Catalunya

📍 Online

2017
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2018

MSc in Molecular Genetics and Biotechnology
Universidad de Sevilla

📍 Seville, Spain

- Specialization on Molecular Biology R&D
- Master's thesis: *Influence of Xrn1 in nucleosome positioning across Saccharomyces cerevisiae genome and its effects in transcription.*

2012
|
2017

BSc in Biotechnology
Universitat de Girona

📍 Girona, Spain

- Specialization in Cellular & Molecular Biotechnology.
- Bachelor's thesis: *Butyrate-induced changes in the diversity of intestinal mucosa-associated microbiota in colorectal cancer patients submitted to a lateral ileostomy.*

📑 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.

DEVELOPMENT

`chromHMMviewR`:

Visualize outputs from ChromHMM in R.

DPomics (*ongoing*):

Shiny app for omics visualization.

DNAme:

Shiny app to convert your name to a DNA sequence.

ATAC-seq snakemake (*ongoing*):

Snakemake pipeline for ATAC-seq data.

ORGANIZATIONS

ASBTEC:

Board member (2019 - Present)
Collaborator (2018 - Present)
Member (2017 - Present)

SCB:

Member (2018 - Present)

HONORS & AWARDS

Elite sportsman:

Federación Española de Remo
2015 - 2021

World Rowing U23 Champion:

BLM2x
Rotterdam, Netherlands.
2016