

Julián Bobis Camacho

Professional Goals

I aim to pursue a career in Global Health and antimicrobial resistance research. Right now, I am carrying out a PhD thesis in sewage-based antimicrobial resistance surveillance, and control. I want to battle this crisis and improve people's health.

Contact

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Work Experience

Ph.D. project in Infectious Diseases

Department of Infectious Diseases, Sahlgrenska Academy, University of Gothenburg | Feb 2022 - present

Prof. Dr. Carl-Fredrick Flach

External researcher

University of Copenhagen (Denmark) | June - November 2021

Prof. Hanne Ingmer research group "Pathogens & response to antimicrobials"

- Study and characterization of vancomycin resistant *Staphylococcus aureus*
- Carry out bacterial culture, phage production & isolation
- Perform antibiotic & phage susceptibility assays
- Gained experience in analyzing large data sets

Master's thesis internship

Robert Koch-Institute, Berlin (Germany) | Sept 2020 - May 2021

Prof. Dr. Frank Seeber research group "Mycotic & Parasitic agents & Mycobacteria"

- Produced organoid-derived intestinal monolayers & stem cell differentiation
- Performed *Toxoplasma gondii* parasite culture (different strains, including environmental isolates) & infection experiments
- Extensive use of fluorescence & confocal microscopy
- PCR, RT-qPCR & DNA/RNA extraction & genetic analysis

Bachelor's thesis internship

IAME, Université de Paris (France) | Feb - Jul 2019

Prof. Olivier Tenaillon group "Quantitative evolutionary microbiology"

- Carried out primer design, plasmid construction & Gibson assembly, among other techniques of synthetic biology
- Performed plasmid insertion, conjugation & growth assays
- Employed genome analysis tools

Intern

Hospital Clínic de Barcelona (Spain) | June - Jul 2018

Department of Clinical Virology. Chief of the unit: Dr M^a Ángeles Marcos

- Used molecular & biochemical diagnostic tools for the epidemiological surveillance of cases & outbreaks of common & tropical viral diseases
- Performed immunology-based diagnosis of Hepatitis viruses & HIV
- Carried out molecular detection & genetic analysis of HIV drug resistance

Intern

Chang Gung University, Taipei (Taiwan) | Jul - Aug 2017

Supervised by Prof. Hsin-Chih Lai. Department of Medical Biotechnology

Academic History

MSc in Molecular Biology

Lund University (Sweden) | Faculty of Science. 2019-2021

- Completed with courses passed with "Pass" and "Pass with distinction"
- Focus on microbiology, microbial pathogenesis, microscopy & antibiotics
- Created a protocol for the isolation of bacterial species from the environment
- Master's thesis title: "Establishment of an *in vitro* oocyst culture system and infection model of *Toxoplasma gondii*"

BSc in Biomedical Sciences

University of Barcelona (Spain) | Faculty of Medicine. 2015-2019

- Average grade: 8.3/10
- Focus on human health and disease, microbiology, molecular biology techniques, infectious diseases Public Health and bioethics
- Bachelor's thesis title: "Development of two conjugative methods to create *E. coli* recombinants with hybrid genomes"

Publications

Pérez-Sisqués, L., Martín-Flores, M., Masana, M., Canal, M., **Bobis, J.**, Alberch, J. & Malagelada, C. (2016). Characterization of RTP801 knockout mice: implications for CNS development and neurodegeneration.

- Oral communication
- "X" Symposium of Neurobiology organized by the Catalan Society of Biology

Hard & soft skills

- MS Office 365
- ImageJ & other image softwares
- Bright-field, fluorescence & confocal microscopy
- Basic knowledge in R & GraphPad
- Genome analysis & molecular genetic techniques
- PCR & RT-qPCR
- RNA/DNA extraction
- Eukaryotic, bacteria & phage culture
- Experience in isolating bacteria from the environment

Languages Spoken

Spanish/Catalan:

Native speaker

English:

C1, Advanced level

French:

B2, Upper-intermediate level

Italian:

Basic-intermediate level