




Ander
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DATE OF BIRTH:
31/12/1995

CONTACT

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ABOUT ME

I am a biotechnologist with broad experience in nanotechnology, from synthesis, functionalization and biomolecule conjugation of nanoparticles for therapeutic and diagnosis purposes.

WORK EXPERIENCE

02/2021 - CURRENT - Verona, Italy

PHD Student - EU Marie Skłodowska-Curie Innovative Training Network (ITN) DIRNANO

University of Verona

Development of therapeutic cancer nanovaccine candidates

10/2019 - 12/2020 - Tarragona, Spain

Jr. Scientist - Biotechnology Specialist

Medcom Advance

Bioconjugation of SERS encoded nanoparticles for diagnosis purposes. Lab work includes synthesis of nanoparticles (Ag nanoparticles, functionalization, bioconjugation of antibodies proteins, peptides and aptamers to nano and microparticles, surface functionalization, characterisation techniques (UV Vis, Raman/SERS, DLS), bacterial assays, bacterial growth, immunoassays TEM, lyophilization and data analysis

10/2018 - 10/2019 - Tarragona, Spain

Lab Technician - Biotechnology Specialist

Medcom Advance

-Experience mentioned above-

08/2018 - 10/2018 - Barcelona, Spain

Research Assistant

Smart Nano Bio Devices group at IBEC (Institute of Bioengineering of Catalonia)

Continuation of the drug delivery system proposed in the master thesis, and participation in different projects within the lab. Projects include nanoparticle synthesis, bacterial growth, bactericidal assays and enzymatic assays.

03/2018 - 08/2018 - Barcelona, Spain

Master Student Researcher

Smart Nano Bio Devices group at IBEC (Institute of Bioengineering of Catalonia)

"Core-double-shell nanoparticles as potential infection treatment" project consisted of the synthesis of a Fe₃O₄ nanoparticles, coated with double shell of AgNPs and a mesoporous silica capable of loading a antibacterial agent. Then, the bactericidal capacity of the drug-loaded particle was tested against a human pathogen.

09/2016 - 07/2017 - Aarhus, Denmark

Bachelor Thesis Researcher

Poul Nissen lab at at DANDRITE (Danish Research Institute of Translational Neuroscience) in Aarhus

"Conformational studies of the multi hydrophobic amino acid transporter MhsT evaluated with highest qualification Bachelor thesis. Project include expression, purification, crystallization and structural resolution of a membrane protein

09/2014 – 07/2016 – Derio, Spain

Undergraduate Researcher

Marcelo Guerin lab at CIC bioGUNE and Unit of Biophysics,
University of the Basque Country

EDUCATION AND TRAINING

09/2017 – 07/2018 – Barcelona, Spain

Master in Pharmaceutical and Biotechnological Industries

University Pompeu Fabra

08/2016 – 06/2017 – Aarhus, Denmark

ERASMUS + Exchange

University of Aarhus

09/2013 – 06/2017

Grade in Biotechnology

University of the Basque Country

LANGUAGE SKILLS

MOTHER TONGUE(S): Spanish / Basque

OTHER LANGUAGE(S):

Ingles

Listening
C2

Reading
C2

**Spoken
production**
C1

**Spoken
interaction**
C1

Writing
C1

Italian

Listening
B1

Reading
B1

**Spoken
production**
B1

**Spoken
interaction**
B1

Writing
B1

Catalan

Listening
B2

Reading
B2

**Spoken
production**
B1

**Spoken
interaction**
B1

Writing
B1

French

Listening
A1

Reading
A1

**Spoken
production**
A1

**Spoken
interaction**
A1

Writing
A1

PUBLICATIONS

- **Drug-Free Enzyme-Based Bactericidal Nanomotors against Pathogenic Bacteria**
2021 <https://pubs.acs.org/doi/10.1021/acsami.1c00986>
- **A non-helical region in transmembrane helix 6 of hydrophobic amino acid transporter MhsT mediates substrate recognition. EMBO J (2020) e105164**
2020 <https://www.embopress.org/doi/abs/10.15252/emboj.2020105164>
- **Mechanistic insights into the allosteric regulation of bacterial ADP-glucose pyrophosphorylases - The Journal of Biological Chemistry 292, 6255-6268.**
2017 <https://www.jbc.org/content/292/15/6255.long>
- **Structural basis for selective recognition of acyl chains by the membrane-associated acyltransferase PatA - Nature Communications volume 7, Article number: 10906 (2016)**
2016 <https://www.nature.com/articles/ncomms10906>

DRIVING LICENCE

- **Driving Licence: B**