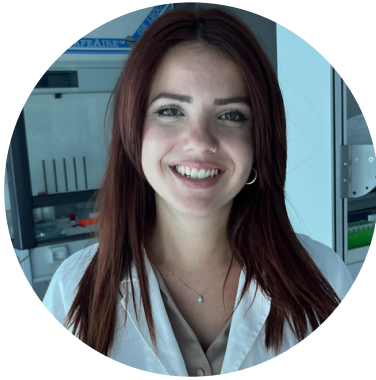




IVANA RAFFAELE

biotechnologist

ABOUT ME

Graduate Medical Biotechnology with knowledge of biological processes and in vitro pre-clinical studies.
Particularly passionate about immunology and molecular biology techniques, including Western blot.
Currently research fellowship in neuroimmunology field.

EDUCATION

**Master's degree in
Medical Biotechnology**
University of Messina
2019-2022

**Bachelor's Degree in
Biotechnology**
University of Messina
2015-2019

LANGUAGE

Mother tongue: Italian

Other tongue: English B2 - ESOL
international (Listening, Reading,
Writing) LanguageCert 2022

WORK EXPERIENCE

- APR 2022 - Present
I.R.C.C.S. Centro Neurolesi Bonino Pulejo | Messina
"Borsa di ricerca biotecnologie nell'ambito
della linea 3 di ricerca corrente
"Neuroimmunologia, neurologia sperimentale,
biologia molecolare" approvata dal Ministero
della Salute "
- APR 2021 - MAR 2022
University internship | University of Messina
Microbial biotechnologies Lab
Thesis: "ROLE OF IFN-BETA AND OF OTHER
CYTOKINES IN PATHOGENESIS IN GRAM POSITIVE
BACTERIA INFECTIONS"
- JAN 2019 - DEC 2019
University internship | University of Messina
General and Molecular pathology Lab
Thesis: "ESPRESSIONE DEI GENI DEL PATHWAY WNT IN
LINEE CELLULARI DEL CANCRO COLONRETTALE DOPO
TRATTAMENTO CON INIBITORI DELLE VIE CANONICA E
NON CANONICA"

EXPERTISE

Molecular biology methods:

- DNA library preparation for NGS
- Protein extraction from cultured cells and quantification
- Western blot and data analysis (Excel; image J; Graphpad)
- Analysis of gene expressions from transcriptomic data
- PCR and gel electrophoresis
- Automated purification of genomic DNA (gDNA) from blood samples
- ELISA assay
- Real-time PCR for mRNA quantification from cultured cells

Cell culture:

- Working on sterile conditions
- Knowledge of in vitro experimental models pertaining to cultured cells, including inflammation and neurodifferentiation
- Maintenance of cells lines (RAW264.7; NSC-34; SHSY5Y; CRC cells lines)
- Freezing and thawing cells lines
- Seeding and cells treatment (LPS; cannabinoids; retinoic acid; inhibitors)
- MTT cell viability assay
- Microbial culture, CFU and OD cell counting

SKILL

- Theoretical knowledge of biological and molecular processes
- Ability to work alone with a propositive behaviour to help team during experiments or data analysis
- Open to learn and progress with a great improvement attitude in laboratory techniques

PUBLICATIONS

Raffaele I, Silvestro S, Mazzon E. MicroRNAs and MAPKs: Evidence of These Molecular Interactions in Alzheimer's Disease. Int J Mol Sci. 2023;24(5):4736. Published 2023 Mar 1. doi:10.3390/ijms24054736

Blando S, Raffaele I, Chiricosta L, et al. Cannabidiol Promotes Neuronal Differentiation Using Akt and Erk Pathways Triggered by Cb1 Signaling. Molecules. 2022;27(17):5644. Published 2022 Sep 1. doi:10.3390/molecules27175644

AUTHORIZATION TO PROCESS PERSONAL DATA

I authorize the processing of personal data present in the CV pursuant to Legislative Decree .Lgs. 101/2018 and of the GDPR (EU Regulation 2016/679).