

Francesca Laoravinese

Rome, Italy | Available for relocation | [REDACTED]

PROFESSIONAL SUMMARY

- Molecular and Medical Biotechnologist highly motivated to expand expertise and explore innovative approaches to positively impact healthcare
- Experienced in molecular and biochemical assays as well as cell culture
- Proactive mindset, strong interpersonal skills, and teamwork ability developed in diverse social and working contexts, including international environments

WORK EXPERIENCE

- Nov 2023 - Aug 2024 **University of Verona | Department of Neuroscience, Biomedicine, and Movement, Verona, Italy**
Graduate Intern – Biological Chemistry laboratory
- Investigated Milk Extracellular Vesicles as drug delivery systems to optimize therapeutic delivery
 - Developed and optimized the isolation and characterization protocol achieving a particle concentration of 10^{12} particles/ml
 - Assessed the efficacy of myricetin encapsulation and its uptake by MDA-MB231 breast cancer cells, reaching an encapsulation efficiency (EE%) of 34%
- Apr 2023 - Sep 2023 **Kyoto Institute of Technology | Faculty of Applied Biology, Kyoto, Japan**
Graduate Intern - Advanced Cell Signalling and Engineering laboratory
- Investigated the anti-inflammatory and anti-cancer properties of Curcumin, Hederagenin and Sericic Acid on A549 Human lung Adenocarcinoma cells
 - Performed advanced assays, including ELISA and MTT, to evaluate cellular responses and therapeutic potential
 - Demonstrated that Hederagenin effectively reduced cancer cell viability by 50%, contributing to potential therapeutic applications
- Dec 2019 - Jan 2020 **Catholic University of the Sacred Heart | Institute of Genomic Medicine, Rome, Italy**
Undergraduate Intern- Molecular Biology laboratory
- Applied Polymerase Chain Reaction (PCR) and genome sequencing to identify new gene variants, associated with pathologies such as PFAPA, haematuria and Asperger syndrome

EDUCATION

- Oct 2021 - Oct 2024 **University of Verona, Verona, Italy**
Master of Science – Molecular and Medical Biotechnology
- Master thesis: Bovine-Milk Derived Extracellular Vesicles as Nanocarriers for Delivering the Natural Polyphenol Myricetin
- Apr 2023 - Sep 2023 **Kyoto Institute of Technology, Japan**
International exchange student
- Oct 2017 - May 2021 **Tuscia University, Department of Innovation in Biology, Agri-food and Forest systems, Viterbo, Italy**
Bachelor of Science- Biotechnology
Bachelor Thesis: Bioethics of Gene Therapy: from basic research to applied research
- Conducted in depth-research on bioethical challenges posed by gene therapy including societal, legal and clinical implications
 - Developed an ethical decision model and applied it to real clinical scenarios

Francesca Lagravinese

Rome, Italy | Available for relocation | +39 3891465431 | francesca.lagrav@gmail.com | [LinkedIn](#)

OTHER RELEVANT EXPERIENCE

Lab Mentoring

Supported an undergraduate student reviewing his dissertation ensuring clarity, rigor and coherence

Lab Admin Activities

- Assisted in designing experiments aligned with research goals and methodology
- Participated in lab meetings to discuss ongoing projects
- Maintained laboratory organization, safety protocols and hazardous waste disposal

PUBLICATION

Nakano K, Yokota Y, Vu QV, **Lagravinese F**, Kataoka T. Structure-Activity Relationship of Oleanane-Type Pentacyclic Triterpenoids on Nuclear Factor κ B Activation and Intracellular Trafficking and N-Linked Glycosylation of Intercellular Adhesion Molecule-1.

SOFT SKILLS

- Communication and Teamwork: Collaborated with an international research team in Japan, fostering an effective and positive environment
- Problem Solving: Overcame experimental challenges with a critical, analytical approach
- Time Management: Managed research projects, meeting deadlines while maintaining high-quality research outcomes

SOFTWARE SKILLS

- Office Productivity: Intermediate proficiency in MS Office Suite (Word, Excel, PowerPoint)
- Communication Platforms: LinkedIn and other social networking tools

VOLUNTEERING

SCOUT AGESCI: Civil Rights and Social Action

- Volunteered in an apolitical movement focused on educating young people to become responsible, active citizens, developing leadership, autonomy, and teamwork.
- Contributed to voluntary service in challenging contexts like prisons, family homes, and nursing homes, promoting civic values and social responsibility.

LANGUAGES

- Italian (Native), English (Fluent), Spanish (Intermediate) and French (Intermediate)

ADDITIONAL INFORMATION

- Driving License: Category B
- Car Owner: Owns a car and available for travel