



ALESSIA BIBI

I am an ambitious and hard-working medical biotechnologist who likes to live and work in a challenging environment. I am highly motivated and passionate for science and research activity, especially in cellular and molecular biology macro areas. Every day seems like a new problem to tackle, and I appreciate that about research.

Contact

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Technical skills

Cell biology: Isolation and culture of human immune cells, maintenance of mammalian cell lines, liposome-mediated transfection and viral transduction in mammalian cells, flow cytometry, bacterial infection assays, ELISA.

Molecular biology: Cloning, PCR, DNA purification from bacterial cultures, manipulation of plasmid DNA, bacterial cell transformation, DNA extraction and purification from primary cell cultures, CRISPR/Cas9 genome editing, production and purification of recombinant proteins, Western Blotting.

Microbiology: Bacterial cell culture, transposon mutagenesis, characterization of mutant phenotypes.

Soft skills

Good communication skills, team player, critical thinking, problem-solving, results-oriented, willingness to learn, positive attitude.

● PhD student

I.R.C.C.S. Policlinico San Donato | Nov 2020 - Present

Identification and functional characterization of circRNAs in ischemic heart failure.

● Junior research fellow

University of Milan | Nov 2018 - Oct 2020

Identification of adherent-invasive Escherichia coli (AIEC) virulence determinants that contribute to chronic inflammation in Crohn's disease.

● Student tutor

University of Milan | Jan 2019

Tutoring activity in the General Microbiology course – Prof. Paolo Landini

● Master's student trainee

Istituto Nazionale di Genetica Molecolare (INGM) | Nov 2017 - Sept 2018

Setting-up of CROP-seq methodology in human CD4+ regulatory T cells (Treg) in order to characterize novel coding and non-coding genes involved in Treg function.

● Bachelor's student trainee

Centro di ricerca emato-oncologico (CREO) | May - Oct 2016

Molecular characterization of hemoglobinopathies in families living in Umbria.

Education

● Master's degree in Medical Biotechnology and Molecular Medicine (LM-9)

University of Milan, Milan | Oct 2016 - Oct 2018

Thesis title: Dissecting gene regulatory networks of human CD4+ regulatory T cells by CROP-seq approach.

Final degree mark: 110/110 cum laude

● Bachelor's degree in Biomedical Laboratory Techniques (L/SNT3)

University of Perugia, Perugia | Oct 2013 - Nov 2016

Thesis title: Caratterizzazione molecolare delle emoglobinopatie in famiglie residenti in Umbria: studio dei geni globinici e geni modificatori.

Final degree mark: 110/110 cum laude

Informatic skills

Microsoft Office, SnapGene, NetPrimer, NCBI, ImageJ, GraphPad.

Languages

Italian
English
French



Poster presentations

- Sept 2019 A. Bibi, G. Leccese, R. Macchi, A. Palleschi, M. Nosotti, P. Landini, M. Paroni. "Friendly fire": *Pseudomonas aeruginosa*- responsive Th1/17 cells are strongly enriched in the lung mucosa and intraepithelial compartment of Cystic fibrosis patients and can contribute to promoting tissue damage and decline of lung function. 47° Congresso Nazionale della Società Italiana di Microbiologia - Rome
- Jan 2019 A. Bibi, G. Leccese, R. Macchi, F. Migliore, P. Landini, M. Paroni. Interplay between Crohn's disease-associated adherent-invasive *Escherichia coli* (AIEC) and mucosal immune system: effects of immunosuppressive drug 6MP and activation of pathogenic Th1/17 cells. Department of Biosciences - University of Milan

Publications

Leccese, G., Bibi, A., Mazza, S., Facciotti, F., Caprioli, F., Landini, P., & Paroni, M. (2020). Probiotic *Lactobacillus* and *Bifidobacterium* Strains Counteract Adherent-Invasive *Escherichia coli* (AIEC) Virulence and Hamper IL-23/Th17 Axis in Ulcerative Colitis, but Not in Crohn's Disease. *Cells*, 9(8), 1824.