

CURRICULUM VITAE

ALBERTO BAERI

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Nationality: Italian

Languages: Italian (native), English (fluent), French (fluent)

Birth date: 02/11/1989

Education:

October 2018 - October 2021: **Ph.D in Molecular Biology**

Ecole Doctorale 85 Sciences de la Vie et de la Santé, Université de Nice Sophia Antipolis

October 2014- February 2017: **Master Degree in Biology**

Università degli Studi di Milano-Bicocca

October 2009- February 2014: **Bachelor Degree in Industrial Biotechnology**

Università degli Studi di Milano-Bicocca

Work Experiences:

April 2023 - Present: **Assistant Professor**, Università Degli Studi Milano Bicocca, Milano (IT)

Main activities and responsibilities: development of innovative microbiota modulating therapies tailored on the individual patient's microbial dysbiosis.

October 2022 - April 2023: **Post-Doctoral Fellow** in the team "Mucosal Immunology" Department of Biotechnology and Biosciences, Università Degli Studi Milano Bicocca, Milano (IT)

Main activities and responsibilities: I investigate the interactions between gut microbiota and cells of the immune system in pathological conditions.

October 2021 - April 2022: **Research Engineer** in the team "Non coding genome and lung pathologies" headed by Bernard Mari, Institut de Pharmacologie Moléculaire et Cellulaire, Valbonne (IPMC) (FR).

Main activities and responsibilities: Collaboration with GALDERMA. I studied the effect of several cytokines on different fibrotic models of clinical interest.

October 2018 - October 2021: **Ph.D student** in the team "Non coding genome and lung pathologies" headed by Bernard Mari, Institut de Pharmacologie Moléculaire et Cellulaire, Valbonne (IPMC) (FR).

Main activities and responsibilities: Collaboration with ImmunoSearch, Le plan de Grasse, France; Elaboration of an in vitro test for the carcinogenesis evaluation of chemical and natural compounds used in the cosmetic industry.

November 2015 - July 2017: Master Internship at ZooPlantLab, Milano (IT) with Collaboration and work experience at LECA institute, Grenoble (FR)

Main activities and responsibilities: ddRAD sequencing of ancient DNA from museum specimens: the case of *Podarcis raffoneae*, a critically endangered mediterranean lizard"

April 2014 - July 2014: Internship at Laboratory of Cytology and Comparative Anatomy Università Degli Studi Milano Bicocca, Milano (IT)

Main activities and responsibilities: Evaluation of the Cytotoxicity of the Zink-oxide Nanoparticles (ZnOnps) on *Xenopus laevis* embryos

Additional Formations and Workshop:

3 - 6 July 2023. 5th European Summer School on Industrial Biotechnology, "Functional metagenomics: from nature to biochemical functions".

31 March 2023. Single-molecule Sequencing Technologies & Applications Symposium, Human Technopole, Milano, Italia.

23 November 2022. SIICA Mentoring Program for Postdocs 2023, online formation.

11 July - 30 November 2022. Biology and management of laboratory animals. Istituto Zooprofilattico Sperimentale della Lombardia e dell'Emilia-Romagna, online formation.

18 - 22 July 2022. "Starting a Grant proposal: from idea to practice", Lake Como School of Advanced Studies, Como, Italia.

7 December 2021. "Intégrité scientifique dans les métiers de la recherche", Université de Bordeaux, Bordeaux, Francia.

6 - 10 October 2019. "InteRNAAt" summer school, CNRS Occitanie-Est delegation, Sète, France.

Teaching Experiences:

April 2023 – Present: Practical Course On Immunological Techniques, Università degli studi Milano-Bicocca

April 2023 – Present: Molecular Immunology, Biotechnology (Selected lectures), Università degli studi Milano-Bicocca

April 2023 – Present: Thesis supervisor (bachelor's degree)

October 2022 – Present: Supervisor of master students, Università Degli Studi Milano Bicocca

January 2019 – September 2019: Supervisor of master student, Université Côte d'Azur.

January 2021 – September 2021: Supervisor of master student, Université Côte d'Azur.

List of Publications:

A1. Georgia Lattanzi, Francesco Strati, Angélica Díaz-Basabe, Federica Perillo, Chiara Amoroso, Giulia Protti, Maria Rita Giuffrè, Luca Iachini, **Alberto Baeri**, Ludovica Baldari, Elisa Cassinotti, Michele Ghidini, Barbara Galassi, Gianluca Lopez, Daniele Noviello, Laura Porretti, Elena Trombetta, Eleonora Messuti, Luca Mazzarella, Giandomenica Iezzi, Francesco Nicassio, Francesca Granucci, Maurizio Vecchi, Flavio Caprioli, Federica Facciotti (2023). iNKT cell-neutrophil crosstalk promotes colorectal cancer pathogenesis. *Mucosal Immunology*, *S1933-0219(23)00024-7*. DOI: 10.1016/j.mucimm.2023.03.006. IF (2021): 9.308. Citazioni (Scopus): 0. Citazioni Google Scholar: 0. Settore: Immunology (Q1); Immunology and Allergy (Q1).

A2. Alberto Baeri, Michaël Levraut, Serena Diazzi, Olivier Camuzard, Marianne Cegarra-Escolano, Marie-Anne Ploumellec, Thierry Balaguer, Julien Fassy, Roger Rezzonico, Saverio Bellusci, Bernard Mari, Georges Vassaux (2022). A role for metformin in the treatment of Dupuytren disease?. *Biomedicine & Pharmacotherapy*, *150*, 112930. DOI: 10.1016/j.biopha.2022.112930. IF (2022): 7.419. Citazioni (Scopus): 0. Citazioni Google Scholar: 1. Settore: Medicine (miscellaneous) (Q1); Pharmacology (Q1).

A3. Serena Diazzi, **Alberto Baeri**, Julien Fassy, Margaux Lecacheur, Oskar Marin-Bejar, Christophe A Girard, Lauren Lefevre, Caroline Lacoux, Marie Irondelle, Carine Mounier, Marin Truchi, Marie Couralet, Mickael Ohanna, Alexandrine Carminati, Ilona Berestjuk, Frederic Larbret, David Gilot, Georges Vassaux, Jean-christophe Marine, Marcel Deckert, Bernard Mari, Sophie Tartare-Deckert (2022). Blockade of pro-fibrotic response mediated by the miR-143/-145 cluster prevents targeted therapy-induced phenotypic plasticity and resistance in melanoma. *EMBO Mol Med*, *e15295*. DOI: 10.15252/emmm.202115295. IF (2021): 14.3. Citazioni (Scopus): 4. Citazioni Google Scholar: 4. Settore: Molecular medicine (Q1).

A4. Béatrice Cambien, Kevin Lebrigand, **Alberto Baeri**, Nicolas Nottet, Catherine Compin, Audrey Lamit, Olivier Ferraris, Christophe N Peyrefitte, Virginie Magnone, Jérôme Henriques, Laure-Emmanuelle Zaragosi, Sophie Giorgetti-Peraldi, Frédéric Bost, Marine Gautier-Isola, Roger Rezzonico, Pascal Barbry, Robert Barthel, Bernard Mari, Georges Vassaux (2020). Identification of oncolytic vaccinia restriction factors in canine high-grade mammary tumor cells using single-cell transcriptomics. *PLoS Pathogens*. DOI: 10.1371/journal.ppat.1008660. IF (2021): 7.01. Citazioni (Scopus): 1. Citazioni Google Scholar: 1. Settore: Genetics (Q1); Immunology (Q1); Microbiology (Q1); Molecular Biology (Q1); Parasitology (Q1); Virology (Q1)).

A5. Emiliano Mori, **Alberto Baeri**, Andrea Sforzi, Alessandro Vitale, Andrea Galimberti (2017). From accidental citizen-science observations to genetic confirmation: how to spot new hidden invaders. *Hystrix* *28* (2), 284. DOI: 10.4404/hystrix-28.2-12421. IF (2019): 2.5. Citazioni (Scopus): 8. Citazioni Google Scholar: 10. Settore: Animal science and zoology (Q2).

Oral Presentations:

1. Alberto Baeri, Marin Truchi, Virginie Magnone, Christophe Becavin, Georges Vassaux, Hervé Groux, Bernard Mari. *Elaboration of an in vitro test for the carcinogenesis evaluation of chemical and natural compounds used in the cosmetic industry*. Journées de l'Ecole Doctorale de Nice, 25 Maggio 2021, Nice, France

2. Alberto Baeri, Georges Vassaux, Hervé Groux, Bernard Mari. *Elaboration of an in vitro test for the carcinogenesis evaluation of chemical and natural compounds used in the cosmetic industry*. Doc/PostDoc institute meeting – Ottobre 2018, Sophia-Antipolis, France

Poster Presentations:

1. Alberto Baeri, Marin Truchi, Georges Vassaux, Bernard Mari. *Elaboration of an in vitro test for the carcinogenesis evaluation of chemical and natural compounds used in the cosmetic industry*. BtBs Day 2022 – Giornata del dipartimento di Biotecnologie e Bioscienze, Università degli Studi di Milano-Bicocca, 13 Dicembre 2022, Milano.

2. Alberto Baeri, Marin Truchi, Virginie Magnone, Christophe Becavin, Georges Vassaux, Hervé Groux, Bernard Mari. *Elaboration of an in vitro test for the carcinogenesis evaluation of chemical and natural compounds used in the cosmetic industry*, LIVE 2021 - Lung In Vitro event for innovative & predictive models, 15 Giugno 2021, online event

3. Andrea Galimberti, Nicola Tommasi, Antonia Bruno, Anna Sandionigi, **Alberto Baeri**, Telmo Peviani, Franco Andreone, Maurizio Casiraghi. *High throughput sequencing applied to museum specimens: a new frontier for biodiversity conservation. The case of Podarcis raffonei (REPTILIA:LACERTIDAE)*, Second Joint Meeting of Société Zoologique de France and Unione Zoologica Italiana, 18- 23 Settembre 2017, Torino.

Competences:

Molecular Biology: RNA and DNA extraction, library construction for NGS, 10x Genomics Single Cell, analysis, RT-qPCR, Biomark HD – Fluidigm, microarray analysis, Rad Sequencing, genotyping, CRISPR/Cas9, RNA interference, primers design.

Cellular Biology: cell culture skills (Air Liquid Interface model, Organoids, and Human Primary Cell culture experience), transient siRNA knockdown, vector transfection, lentiviral transduction, cell dissociation, metabolic assays (MTT, XTT), immunofluorescence staining and analysis by widefield or confocal microscopy, FACS.

Biochemistry: Protein extraction, Western Blot, Immunoprecipitation, ELISA.

Histology: Paraffin-embedded tissue sections, inclusion of sections in OCT, immunohistochemistry

Informatics Skills: Office, R, ImageJ, Prism, Ingenuity Pathway Analysis

Scientific vulgarisation:

1. Brain awareness week, Grasse, France, March 2020
Scientific animations

2. Village des Sciences, Juan-les-Pins, France, October 2018
Scientific animations

3. Notte della Ricerca “MEETmeTONIGHT”, Milano, 2017
Scientific animations

Milano, 02/05/2023

Alberto Baeri

