

PERSONAL INFORMATION

Benedetta Mattorre

WORK EXPERIENCE

09/2024-to date

FONDAZIONE REGIONALE PER LA RICERCA BIOMEDICA
Scientific Officer

- Management of project proposal peer-review steps, including Consensus Meetings
- National and international experts management involved in the review process
- Drafting of scientific contents for regional calls and the evaluation criteria for project proposals.
- Checking the content of scientific reports and supporting the evaluation process of completed projects
- Scientific dissemination activities (organization of meetings, events, etc.)
- Identification of scientific thematic areas of calls and monitoring of trends in biomedical research evolution

01/2024-08/2024

ASST PAPA GIOVANNI XIII
Clinical Trial Center (CTC)

- Assessment of clinical trials economic feasibility
- Clinical trial contracts negotiation
- Management of regulatory aspects
- Support for experimental designs
- Contracts monitoring
- Collaboration with the Fondazione per la ricerca dell'ospedale di Bergamo (FROM-ETS)
- Managing contacts with data protection officer (DPO)

11/2021-12/2023

OSPEDALE SAN RAFFAELE
Research activity – cellular immunology unit:

- Development of new therapeutic approaches/drug discovery
- Drafting of clinical trial protocols and study reports
- Collecting, recording and updating study data
- Supporting clinicians and maintaining study supplies

11/2018-11/2021

UNIVERSITÀ DEGLI STUDI DI ROMA “LA SAPIENZA”
Research activity – Immunopathology lab

- Autoimmune diseases
- Genetic association and functional analysis of genes involved in modulating the inflammatory response

01/2017-06/2017

UNIVERSITAT POMPEU FABRA – IBE INSTITUT
Internship – Erasmus+ program

- Human genetic variation
- Population genomics

03/2015-06/2015

UNIVERSITÀ DEGLI STUDI DI FIRENZE
Internship

- Antibiotics overproduction strategies

EDUCATION AND TRAINING

11/2022- 01/2023

MISSIONE CRA

Advanced training course in clinical research D.M. 15/nov/21

Methodology and Regulation of clinical trials, ICH-GCP, GMP, Pharmacovigilance, Quality Assurance (QA), Site Selection, Pre-Study Visit, Essential Documents, Drug Accountability.

11/2018-02/2022

PhD in Cellular and Development Biology

Department of Biology and Biotechnology "C. Darwin", Sapienza-University of Rome, Piazzale Aldo Moro 5, 00185 Roma, Italy

Research thesis: A genetic and functional study on the role of the aminopeptidases ERAP1, ERAP2 and LNPEP

Supervisors: Prof. Rosa Sorrentino and Dr. Fabiana Paladini

06/2018

Admitted to the profession of Biologist, Section A (State examination of professional abilitation)-University of Florence

10/2015-11/2017

Master's degree in Cellular and Molecular Biology laude

110/110 cum

University of Florence, Department of Biology, Via Madonna del Piano 6, 50019, Sesto Fiorentino (FI), Italy

Research thesis: "Genetic history of Bubi and affinities of this African group in the context of Bantu-Speaking and no Bantu-Speaking populations"

Supervisors:

Dr Carles Lalueza-Fox, IBE Institute of Evolutionary Biology, Barcelona

Prof David Caramelli, University of Florence

10/2012-10/2015

Bachelor's degree in Biological Sciences

University of Florence, Department of Biology, Via Madonna del Piano 6, 50019, Sesto Fiorentino (FI), Italy

Research thesis: "Metabolic reconstruction and analysis of the strain Streptomyces ambofaciens ATCC 23877 for the identification of antibiotics overproduction strategies."

Supervisors:

Dr. Marco Fondi, University of Florence

Prof. Renato Fani, University of Florence

Mother tongue(s) Italian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B1	B1	B2
Spanish	C1	C1	C1	B2	B2

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
Common European Framework of Reference for Languages

Social skills

- Ability to work in a team
- Adaptability
- Ability to communicate in different contexts and situations
- Conflict resolver
- Motivator

PERSONAL SKILLS

Organisational / managerial skills

- Practical training and supervisor of undergraduate and graduate students at "Sapienza" University of Rome, laboratory of Experimental Pathology coordinated by Prof. Rosa Sorrentino
- Participation in the laboratory administration (orders, contacts with sales representatives, organization of laboratory skills)
- Manage time and deadlines
- Sense of organization and plan elaboration
- Problem Solving

Job-related skills

- Prokaryotic and eukaryotic cell cultures
- Cloning technique
- Production of recombinant protein
- PBMC isolation, depletion of cellular subpopulations
- Generation and production of dendritic cells, macrophages and T lymphocytes
- Transformation of B lymphocytes with Epstein Barr
- Cell transfection
- DNA and RNA Extraction
- Allelic discrimination
- PCR; RT-PCR; Real-Time PCR
- Protein Extraction
- Western Blot
- Immunoprecipitation
- ELISAs
- Flow cytometry
- Cytotoxicity assay
- Direct and indirect Immunofluorescence and Confocal Microscopy

Computer skills

- Microsoft Office (Word, Excel, PowerPoint)
- Adobe Photoshop
- Statistical analysis (R)
- Basic use of MATLAB
- Data analysis (ABI ImageLab, ImageJ, BD CellQuest Pro, FlowJo software, ZEN microscope software, GraphPad Prism)

- Publications**
- Cogrossi LL, Policastro A, Zordan P, Grioni M, Tosi A, Rizzo N, **Mattorre B**, Lorenzoni M, Meregalli G, Sisti S, Sanvito F, Palmioli A, Airolidi C, Maurizio A, Chesi M, Bergsagel L, Clementi N, Rosato A, Bellone M. Microbiome modulation uncouples efficacy and toxicity induced by immune checkpoint blockade in mouse multiple myeloma. *Nat Commun.* 2025 Nov 24;16(1):10384. doi: 10.1038/s41467-025-65312-y. PMID: 41285849; PMCID: PMC12644586.
- Ghezzi S, Mapelli P, Cogrossi LL, Samanes Gajate AM, Brembilla G, Cucchiara V, **Mattorre B**, Russo T, Bezzi C, Neri I, Vadalà S, Alimonti A, Freschi M, Briganti A, De Cobelli F, Chiti A, Bellone M, Scifo P, Picchio M. Diagnostic Accuracy of Fully Hybrid PET/MRI with [68Ga]Ga-PSMA-11 and [68Ga]Ga-RM2 in Detecting Primary Prostate Cancer: A Phase 2 Trial with Histology as Gold Standard. *J Nucl Med.* 2025 Nov 20:jnumed.125.269782. doi: 10.2967/jnumed.125.269782. Epub ahead of print. PMID: 41266247.
- Mercinelli C, Moschini M, Cigliola A, **Mattorre B**, Tateo V, Basile G, Cogrossi LL, Maiorano BA, Patanè DA, Raggi D, Pastorino GL, Re C, Colecchia M, Lucianò R, Colombo R, Brembilla G, De Cobelli F, Briganti A, Pavlick DC, Ross JS, Montorsi F, Bellone M, Necchi A. First Results of NURE-Combo: A Phase II Study of Neoadjuvant Nivolumab and Nab-Paclitaxel, Followed by Postsurgical Adjuvant Nivolumab, for Muscle-Invasive Bladder Cancer. *J Clin Oncol.* 2024 Sep 6:JCO2400576. doi: 10.1200/JCO.24.00576. Epub ahead of print. PMID: 39241203.
- Mattorre B**, Tedeschi V, Paldino G, Fiorillo MT, Paladini F, Sorrentino R. The emerging multifunctional roles of ERAP1, ERAP2 and IRAP between antigen processing and renin-angiotensin system modulation. *Front Immunol.* 2022;13:1002375. Published 2022 Sep 20. doi:10.3389/fimmu.2022.1002375
- Mattorre B**, Caristi S, Donato S, et al. A Short ERAP2 That Binds IRAP Is Expressed in Macrophages Independently of Gene Variation. *Int J Mol Sci.* 2022;23(9):4961. Published 2022 Apr 29. doi:10.3390/ijms23094961
- Brevi A, Cogrossi LL, Lorenzoni M, **Mattorre B**, Bellone M. The Insider: Impact of the Gut Microbiota on Cancer Immunity and Response to Therapies in Multiple Myeloma. *Front Immunol.* 2022;13:845422. Published 2022 Mar 17. doi:10.3389/fimmu.2022.845422
- Tedeschi V, Paldino G, Paladini F, **Mattorre B**, Tuosto L, Sorrentino R, Fiorillo MT. The Impact of the 'Mis- Peptidome' on HLA Class I-Mediated Diseases: Contribution of ERAP1 and ERAP2 and Effects on the Immune Response. *Int J Mol Sci.* 2020 21:9608.
- Paladini F, Fiorillo MT, Tedeschi V, **Mattorre B**, Sorrentino R. "The multifaceted nature of aminopeptidases ERAP1, ERAP2 and LNPEP: from evolution to disease" *Front Immunol.* 2020, 11:1576.
- Gelabert P, Ferrando-Bernal M, de-Dios T, **Mattorre B**, Campoy E, Gorostiza A, Patin E, González-Martín A, Lalueza-Fox C. Genome-wide data from the Bubi of Bioko Island clarifies the Atlantic fringe of the Bantu dispersal. *BMC Genomics.* 2019 Mar 6;20(1):179. doi: 10.1186/s12864-019-5529-0. PMID: 30841922; PMCID: PMC6404284.
- Fondi M, Pinatel E, Talà A, Damiano F, Consolandi C, **Mattorre B**, Fico D, Testini M, De Benedetto GE, Siculella L, De Bellis G, Alifano P, Peano C. Time-Resolved Transcriptomics and Constraint-Based Modeling Identify System-Level Metabolic Features and Overexpression Targets to Increase Spiramycin Production in *Streptomyces ambofaciens*. *Front Microbiol.* 2017 May 12;8:835. doi: 10.3389/fmicb.2017.00835. PMID: 28553270; PMCID: PMC5427115.

Conferences

II Joint Meeting of the German Society for Immunology (DGfI) and the Italian Society of Immunology, Clinical Immunology and Allergology (SIICA) September 10-13, 2019 Munich (DE), Germany (Poster)

SIICA (Società italiana di Immunologia, Immunologia clinica e Allergologia) School of Immunology 2020

ICI-CIVIS Summer School 2021 – “Tumor heterogeneity in immuno-oncology: single-cell approaches” – Aix-Marseille University, 5-10/07/2021

Fondazione Ceschina 2021 virtual meeting (Oral presentation)

DITID RETREAT 2022 (DIVISION OF IMMUNOLOGY, TRANSPLANTATION AND INFECTIOUS DISEASE), Ospedale San Raffaele (Poster)

XX NIBIT ANNUAL MEETING. 13 Ott 2022. Translating knowledge into the clinic. Padova, 13 – 15 Ottobre 2022

DITID RETREAT 2023 (DIVISION OF IMMUNOLOGY, TRANSPLANTATION AND INFECTIOUS DISEASE), Ospedale San Raffaele (Poster)

The International Cancer Immunotherapy Conference (CICON) September 20-23 2023, Milan, Italy

20th International Myeloma Society Annual Meeting, September 27-30 2023, Athens, Greece

Honours and awards

Avvio alla ricerca” Sapienza-type1 research grant 2020

Grant agreement for short term mobility ICI-CIVIS 2021 (Università di Aix-Marseille)

Certifications and courses

MISSIONE CRA – Clinical Research Training Course of 50 hours in accordance with D.M. 15/Nov/211 (January 2022)

"How to Conduct a Clinical Trial in Oncology" (October 2022), certified by FormazioneNelFarmaceutico.com

"Anatomy of a Clinical Research Protocol" (October 2022), certified by FormazioneNelFarmaceutico.com

Administrative Law Course (with focus on Law No. 241 of 1990), 8 hours, conducted by Dr. Giuseppe Napolitano (30 September 2024)

British Council – English Language Course, 10.5 hours, intermediate level (November–December 2024)

Anti-Corruption Course, 8 hours, conducted by Dr. Santo Fabiano (17 December 2024)

"Privacy and Data Protection" Course, 4 hours, conducted by Dr. Ivano Pecis (28 March 2025)

"Clinical Trials and Observational Studies" Course, 4 hours, conducted by Dr. Celeste Cagnazzo (7 April 2025)

GPI Software Training for Protocol Management, 8 hours (5 June 2025)

The undersigned, Benedetta Mattorre, declares that this CV has been drawn up in the form of a self-certification, pursuant to Articles 46 and 47 of Presidential Decree No. 445 of December 28, 2000. I authorize the processing of personal data contained in my CV pursuant to Article 13 of Legislative Decree 196/2003 and Article 13 of EU Regulation 2016/679 on the protection of individuals with regard to the processing of personal data.

Milan, 02/03/2026