



Giusto Davide Badami

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ABOUT ME

I'm a researcher focused on new immuno-based strategies against cancer and infectious diseases. Expertise in a range of immunological techniques covering Immunohistochemistry, flow cytometry, cell culture, functional assays, confocal fluorescence microscopy and in vivo mice procedures.

Currently, I have been involved in the following research areas:

- Observational study on microcytoma and gamma delta T cells
- Involvement of innate lymphocytes in the pathogenic mechanisms of colorectal cancer
- Evaluation of the effects of conjugated linoleic acid in synergy with the use of "endurance" training protocols, on healthy and cachectic mouse models.
- New strategies for the activation of an immune response of HLA-E histocompatibility molecule-restricted CD8⁺ T lymphocytes against *Mycobacterium tuberculosis* infection.
- Study of a particular population of CD8⁺ T lymphocytes defined as TRM (Tissue Resident Memory) in Multiple Myeloma.
- Assessment of the Platelets Contribution to the Pathogenesis of Tuberculosis.
- Quantitative, phenotypic and functional analysis of circulating B lymphocytes in latent and TB active subjects.
- Assessment of an Engineered Fusion Protein Featuring a TCR Specific to an HLA-E Restricted Peptide from *M. tuberculosis*
- Assessment of a rapid screening test for detecting TB active patients.
- Assessment of a rapid and simple multiparameter assay to quantify Spike-specific CD4 and CD8 T Cells after SARS-CoV-2 Vaccination

WORK EXPERIENCE

01/02/2024 - CURRENT Palermo, Italy

RICERCATORE POLICLINICO UNIVERSITARIO PAOLO GIACCONE

Ricercatore a contratto su progetto PNRR-MAD-2022-12375909 presso il Policlinico Universitario Paolo Giaccone - Palermo

01/02/2024 - CURRENT Palermo, Italy

DOCENTE A CONTRATTO UNIVERSITY OF PALERMO

Docente a contratto di Patologia generale e Fisiopatologia per il CdL di Infermieristica (Trapani) - Università degli studi di Palermo

08/09/2023 Italy

CULTORE DELLA MATERIA PER L'INSEGNAMENTO DI PATOLOGIA GENERALE - MED-04 UNIVERSITY OF PALERMO

Nomina a cultore della materia "Patologia Generale" per il CdL Fisioterapia (Università degli studi di Palermo)

06/09/2023 Italy

CULTORE DELLA MATERIA PER L'INSEGNAMENTO DI IMMUNOLOGIA - MED-04 UNIVERSITY OF PALERMO

Nomina a cultore della materia "Immunologia" per il CdL Medicina e Chirurgia (Università degli studi di Palermo)

01/11/2019 – 01/02/2023 Palermo, Italy

PHD UNIVERSITY OF PALERMO

- Research project focused on CD8+ HLA-E restricted T cells in Tuberculosis and development of new vaccine strategies
- Direct involvement in various research projects
- Tutoring for students
- Teaching activities for the degree course of Medicine and Surgery and Biotechnology
- Participation in congress
- Participation in hospital diagnostic activities (Immunodeficit and Oncohematology analysis)

01/05/2017 – 01/03/2019 Palermo, Italy

INTERSHIP UNIVERSITY OF PALERMO

During my internship at the CLADIBIOR laboratory (Policlinico Universitario "Paolo Giaccone"), I actively engaged in research endeavors within the realm of immunology.

01/02/2014 – 31/07/2014 Palermo, Italy

INTERSHIP UNIVERSITY OF PALERMO

During my internship at BIONEC laboratory (Policlinico Universitario "Paolo Giaccone"), I actively engaged in research endeavors within the realm of Cellular Biology, in particular the role of some Heat Shock Proteins in tumors.

01/10/2013 – 01/12/2014 Catania, Italy

ADVERTISING MANAGER TRIRIDEMTB.COM

- Making business networks with marketing managers
- Planning the process of promotion, design and preparation of advertising campaigns

01/01/2010 – 01/12/2015 Catania, Italy

OUTDOOR TOUR MANAGER SICILY MTB HOLIDAYS

Management of bike tours

01/12/2009 – 01/12/2010 Palermo, Italy

VOLONTARIO SERVIZIO CIVILE NAZIONALE MINISTERO DELLE POLITICHE GIOVANILI

I collaborated with the Centro Sportivo Italiano on a project focused on the role of Sport as an educational and social inclusion tool within challenging neighborhoods in the city of Palermo.

01/01/2006 – 01/12/2007 Palermo, Italy

UFFICIALE DI GARA ACI-CSAI

Race official in car competitions (ex. Targa Florio, Rally Conca d'oro)

EDUCATION AND TRAINING

01/11/2019 – 01/02/2023 Palermo, Italy

PHD IN MOLECULAR AND CLINICAL MEDICINE University of Palermo

Thesis Mycobacterium tuberculosis epitopes by Bordetella pertussis adenylate cyclase toxoid expands HLA-E-restricted cytotoxic CD8+ T cells

01/10/2016 – 15/03/2019 Palermo, Italy

MASTER'S DEGREE IN MEDICAL BIOTECHNOLOGY AND MOLECULAR MEDICINE University of Palermo

Thesis Characterization of Low Density Neutrophils: a possible biomarker of active tuberculosis disease

01/10/2005 – 22/03/2016 Palermo, Italy

BACHELOR'S DEGREE IN BIOTECHNOLOGY

LANGUAGE SKILLS

Mother tongue(s): **ITALIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	B2	B2	B2	B2	B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DIGITAL SKILLS

ECDL Certificate

PUBLICATIONS

2024

Deep Immunoprofiling of Large-Scale Tuberculosis Dataset at Single Cell Resolution Reveals a CD81bright $\gamma\delta$ T Cell Population Associated with Latency

2024

An HLA-E-targeted TCR bispecific molecule redirects T cell immunity against Mycobacterium tuberculosis

2024

Integrated Analysis of Single-Cell and Bulk RNA Sequencing Data Reveals Memory-like NK Cell Subset Associated with Mycobacterium tuberculosis Latency

2024

Cow's Milk: A Benefit for Human Health? Omics Tools and Precision Nutrition for Lactose Intolerance Management

2023

Delivery of Mycobacterium tuberculosis epitopes by Bordetella pertussis adenylate cyclase toxoid expands HLA-E-restricted cytotoxic CD8+ T cells

2023

Emerging Roles of Cells and Molecules of Innate Immunity in Alzheimer's Disease

2022

Impact of Mycobacterium tuberculosis Infection on Human B Cell Compartment and Antibody Responses

2022

Phenotypic and Immunometabolic Aspects on Stem Cell Memory and Resident Memory CD8+ T Cells

2022

Metabolic Reprogramming of Innate Immune Cells as a Possible Source of New Therapeutic Approaches in Autoimmunity

2022

Platelets accumulate in lung lesions of tuberculosis patients and inhibit T-cell responses and Mycobacterium tuberculosis replication in macrophages

2022

Immunity and Nutrition: The Right Balance in Inflammatory Bowel Disease

2021

Recent Advances on the Innate Immune Response to Coxiella burnetii

2021

A Rapid and Simple Multiparameter Assay to Quantify Spike-Specific CD4 and CD8 T Cells after SARS-CoV-2 Vaccination: A Preliminary Report

2021

Role of hematopoietic cells in Mycobacterium tuberculosis infection

2021

LIODetect®TB-ST: Evaluation of novel blood test for a rapid diagnosis of active pulmonary and extra-pulmonary tuberculosis in IGRA confirmed patients

2020

Harnessing Unconventional T Cells for Immunotherapy of Tuberculosis

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