



UNIVERSITÀ POLITECNICA DELLE MARCHE

Supervisor: Dr. Gianluca Morrone

Dept. of Biomedical Sciences and Public
Health

Project idea: Genomic
characterization of secreted vesicles
from bacteria



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Supervisor:
Gianluca Morroni

Dr. Gianluca Morroni

Position: Researcher Tenure Track – MEDS-03/A –
Microbiology and Clinical Microbiology

Institution: Università Politecnica delle Marche
(UNIVPM), Italy

Brief CV & Academic Track

Senior researcher with expertise in **Bacteriology**,
Mycology, **Antibiotic-Resistance** and **Genomics**
Extensive experience in EU-funded research and
international collaborations

ORCID: <https://orcid.org/0000-0003-0772-0214>

Total publications: **89/86** (Scopus/WoS)

5 Selected Recent / Significant Publications

DOI: 10.1128/spectrum.01786-24

DOI: 10.1038/s41419-024-06765-9

DOI: 10.1016/j.jgar.2025.01.009

DOI: 10.2217/fmb-2020-0204

DOI: 10.1016/j.jgar.2024.07.004

Funded Projects & Awards

National projects: PRIN 2022 PI (2022FZL92A)

Awards: Dottorati innovativi Regione Marche

Mentorship & Leadership

Supervisor of **2 PhD candidates** and **10 MSc theses**

Chair / Board member of **FIMUA**, **Giovani SIM**

Experience supporting early-career researchers in
MSCA proposals

Possible spin-off / industrial collaborations:
Diatheva

Research Interests & Potential MSCA Area

Bacteriology

Public Health and Epidemiology

Genomics

➔ Potential project domain: **Infectious disease and
antibiotic-resistances**





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Department & Research Environment

Dept. Of Biomedical Sciences and Public Health

Host Department Dept. of Biomedical Sciences and Public Health — UNIVPM

A multidisciplinary environment supporting research in:

Microbiology

Infectious Disease

Epidemiology

Research Group Description

Microbiology Lab

Team composition: **4 senior staff + 1 postdocs + 2 PhDs]**

Strong international network and collaborations

Key Infrastructure & Laboratories

Available facilities include:

Microbiology Lab – general bacteriology

Sequencing Lab – Next generation sequencing

Cell Lab – Cell culture

Core instruments: PCR, Illumina Miseq, Nanopore Minion,

Bioinformatic Workstations

Training & Career

Development Opportunities

Access to doctoral school
courses, transferable skills
training

Support for Open Science,
dissemination, and
stakeholder engagement

Opportunities for
**secondments and non-
academic placement**



HR EXCELLENCE IN RESEARCH



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Project idea – Genomic characterization of secreted vesicles from bacteria

Overall Goal

The project aims to develop **knowledge on bacterial secreted vesicles**, contributing to:
Scientific advancement in **Microbiology and Pathology**
Innovation potential in **Infectious Diseases**
Strengthening European research excellence

Specific Objectives

Investigate **the vesicle contents and their role in gene transfer and host interaction**
Develop **a method of isolation and characterization of bacterial vesicles**
Validate results through **analyzing a collection of different bacteria**

Novelty & Interdisciplinarity

Combines expertise in **Microbiology + Pathology**
Strong potential for academic + non-academic impact

Expected Outcomes

High-impact publications
New methodology and dataset
Enhanced career perspectives for the fellow

