



DOTTORATO DI RICERCA IN MEDICINA
MOLECOLARE

Curriculum Vitae Marta Di Giuliani

PERSONAL INFORMATION

Name **MARTA DI GIULIANI**
Address **VIA TORRICCHIA 3, ROCCASINIBALDA (RI)**
Phone **+39 3389687396**
E-mail **martadigiuliani@gmail.com**

Nazionalità Italian
Date of birth 07/06/1995

WORKPLACE Regina Elena National Cancer Institute (IRE-IFO)
Translational Oncology Research Unit

SUPERVISOR Dr. Maria Giulia Rizzo, Dr. Lucia Di Marcotullio

EDUCATION AND TRAINING

- 10/2022-nowadays **PhD School of Molecular Medicine**
Sapienza University of Rome, Italy
Research field: CRISPR-Cas9 library application to identify miRNAs as sensitizer to therapy in glioma cell lines
- 10/2018-03/2022 **Master's degree in biology for Molecular, Cellular and Physiopathological Research**
University of Roma Tre, Italy
Thesis title: Study of the functional role and identification of new targets of a signature of three microRNAs in glioma cells
110/110 cum laude
- 10/2014-06/2018 **Bachelor's Degree in Biological Sciences**
University of Roma Tre, Italy
Thesis title: Impact of sweeteners on glucose homeostasis regulation
90/110
- 09/2009–06/2014 **High School Diploma**
Scientific high school "Celestino Rosatelli", Rieti
85/100

PREVIOUS RESEARCH EXPERIENCE

- 08/2022 - nowadays
Fellow Researcher
Regina Elena National Cancer Institute, Rome, Italy
Translational Oncology Research Unit
Supervisor: Dr Maria Giulia Rizzo
Research field: Study of tissue and/or circulating microRNAs and their involvement in brain tumours

- 03/2022-08/2022
Voluntary Attendance
Regina Elena National Cancer Institute, Rome, Italy
Translational Oncology Research Unit
Supervisor: Dr Maria Giulia Rizzo
Research field: Study of tissue and/or circulating microRNAs and their involvement in brain tumours

- 03/2021-03/2022
Master Thesis Intern
Regina Elena National Cancer Institute, Rome, Italy
Translational Oncology Research Unit
Supervisor: Dr Maria Giulia Rizzo
Research field: Study of tissue and/or circulating microRNAs and their involvement in brain tumours

- 02/2019-02/2020
Voluntary national civil service
Monte Navegna and Monte Cervia Nature Reserve, Rieti
Project: Nature and Culture, the Rieti network of libraries and museums

- 03/2018-06/2018
Curricular training
University of Roma Tre, Molecular biology laboratory
Supervisor: Prof. Paolo Mariottini

- 06/2013-07/2013
Stage
Antiche Fonti di Cottorella, Rieti
Laboratory of chemical and microbiological analyses

PUBLICATION Díaz AB, Sacconi A, Tremante E, Lulli V, Caprara V, Rosanò L, Goeman F, Carosi M, **Di Giuliani M**, Silvani A, Pollo B, Garufi C, Ramponi S, Hanemann O, Abdelrahman A, Simonetti G, Ciusani E, Mandoj C, Scalera S, Villani V, Po A, Ferretti E, Regazzo G, and Rizzo MG. “A diagnostic circulating miRNA signature as orchestrator of cell invasion via TKS4/TKS5 modulation in human gliomas” *JECCR*, 2023.

AWARDS

- 11/2022
Fellowship foundation Mia Neri
Title of the project: CRISPR-Cas9 library application to identify miRNAs as sensitizer to therapy in glioma cell lines

PERSONAL SKILLS AND COMPETENCES

LANGUAGES ITALIAN MOTHER TONGUE

OTHER LANGUAGES English

TECHNICAL SKILLS AND COMPETENCES

Cell biology techniques: maintenance of cells in 2D/3D culture, transfection techniques, lentiviral infections; proliferation assays (MTT, ATPlite Luminescence), viability (Trypan blue, Live/Dead Cell assay), apoptosis (caspase 3, cleaved PARP, Tunel staining, Annexin V staining), autophagy (LC3-II protein levels). Migration and invasion assays (transwell assays, 3D spheroid invasion in cultrex matrix). Fluorescent gelatin degradation assays for invadopodia activity. FACS analysis. Assessment of cell bioenergetics (Agilent Seahorse XF). Chemotherapeutic treatments and cytotoxicity assays (MTT, IncuCyte assays).

Molecular biology techniques: plasmid and genomic DNA extraction, RNA extraction from cell cultures, tissues and biofluids, cDNA preparation. Stem-loop and SYBR green RT-PCR for microRNA analysis. Conventional PCR, Real-Time PCR and digital PCR. Protein extraction from cell and tissue lysates, Western blotting. Next-generation sequencing (Illumina platform)

Microbiology techniques: maintenance of bacterial cultures, bacterial transformation techniques, plasmid DNA extraction.

Computer skills: BLAST, UCSC Genome Browser, Primer3, MiRBase, Mirwalk 3.0, miRTarbase, Targetscan, Reactome, KEGG, WikiPathways.

OTHER RELEVANT INFORMATION ~~Patente di Guida~~ Patente di Guida Categoria B

Qualification as a biologist

Data
16/03/2023

