

Michela Tozzi

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PROFILE AND RELEVANT SKILLS

- Great worker focused on personal and professional growth in the field of research.
- Excellent communication and integration skills.
- Good spirit of adaptation
- Excellent team work skills
- Good in organizing time and deadlines
- Good user of Office and Graphpad
- Cells and spheroid cultures
- Optical microscope
- RNA and DNA extraction and purification from cells and tissues
- Real Time PCR
- Western Blot
- Immunofluorescence
- Cytogenetic analysis
- Animal experiments

WORK EXPERIENCE

POSTGRADUATED INTERNSHIP

Istituto Superiore di Sanità (RM)
April 2023 – Ottobre 2023

INTERN

Istituto Superiore di Sanità (RM)
January 2022 – March 2023

Experimental thesis focused on the study of bacterial toxin CNF1 of *E.coli* and its involvement in the occurrence of colorectal cancer.

INTERN

U.O.C. Servizio Immunotrasfusionale
Ospedale San Salvatore (AQ)
February 2019 - April 2019

TECHNICAL CERTIFICATIONS

Certification for laboratory animal handling (mice)
Istituto Superiore di Sanità (Roma).

LANGUAGES

Mother tongue

Italian

Other languages

English, B1

EDUCATION

Ph.D. in HUMAN BIOLOGY AND MEDICAL GENETICS SAPIENZA UNIVERSITY OF ROME

Istituto Superiore di Sanità (RM)
November 2023 - In progress

SAPIENZA UNIVERSITY OF ROME

Master's Degree

September 2020 – March 2023

Genetics and Molecular Biology

Thesis: Cellular and molecular effects of CNF1 toxin from *Escherichia coli* on intestinal epithelial cells: possible implications in colorectal cancer development
Final grade: 110/110 cum laude

UNIVERSITY OF L'AQUILA

Beachelor's Degree

September 2016 - July 2020

Biological Sciences

Thesis: Current and emerging therapies for multiple myeloma
Final grade: 99/110

PUBBLICATIONS

Tozzi&Fiore (2025). “*E. Coli* cytotoxic necrotizing factor-1 promotes colorectal carcinogenesis by causing oxidative stress, DNA damage and intestinal permeability alteration.” **J Exp Clin Cancer Res.** 2025 Jan 29;44(1):29. doi: 10.1186/s13046-024-03271-w

Alessia Fiore, **Michela Tozzi**, Paola Rinzo, Daniele Macchia, Massimo Spada, Alessia Fabbri and Laura Bracci. “Isolation and phenotype analysis of tissue-resident lymphocytes from mouse colon”. **Methods in Cell Biology**, 2025;199:187-199. doi: 10.1016/bs.mcb.2025.02.011

Ilenia Laterza, **Michela Tozzi**, Elena Angela Pia Germinario, Zaira Maroccia, Sara Travaglione, Lucrezia Gambardella, Stefania Rossi, Zuleika Michelini, Andrea Cara, Omar Leoni, Valentina Tirelli, Gabriele De Luca, Massimo Spada, Mauro Biffoni, Laura Bracci, and Alessia Fabbri. **"The Role of E. coli Toxin CNF1 in Colorectal Cancer Progression and Metastasis"**. Oral Presentation, EACR-Mark Foundation Joint Conference: The Rise of Early-Onset Cancers - Biology, Causes, and Detection. Bergamo (November 11-13, 2025)

Laura Bracci, Alessia Fiore, **Michela Tozzi**, Elena Angela Pia Germinario, Ilenia Laterza, Sara Travaglione, Zaira Maroccia, Vincent Cahais, Cyrille Cuenin, Mauro Biffoni, Rachel Purcell, Zdenko Herceg, Rita Khoueiry, and Alessia Fabbri. **"Impact of CNF1 toxin from Escherichia coli on the methylation pattern of inflamed and non-inflamed colonic tissue during colorectal carcinogenesis"**. Poster International Society of Microbiota (ISM): 12th World Congress on Targeting Microbiota. Valencia (November 5-6, 2025)

Michela Tozzi¹, Paola Rinzo, Roberto Mattioli, Federica Moschella, Maria Cristina Quattrini³, Donatella Pietraforte, Simona Donati, Stefania Rossi, Ilenia Laterza, Zaira Maroccia, Omar Leoni, Daniele Macchia, Massimo Spada, Sofia Tomasoni, Ranieri Verin⁷, Concetta Panebianco, Valerio Pazienza, Luciana Mosca, Alessia Fabbri, Laura Bracci. **"Extra-virgin olive oil polyphenols extracted by a "green chemistry" approach hold promising antitumor effects against colorectal cancer: implications for cancer chemoprevention"**. Poster ACC: 10TH ANNUAL MEETING NEW TECHNOLOGIES AND STRATEGIES TO FIGHT CANCER. Verona (September 18-20, 2025)

Michela Tozzi, Paola Rinzo, Roberto Mattioli, Federica Moschella, Maria Cristina Quattrini, Donatella Pietraforte, Ilenia Laterza, Zaira Maroccia, Omar Leoni, Daniele Macchia, Massimo Spada⁵, Sofia Tomasoni, Ranieri Verin, Luciana Mosca, Alessia Fabbri, Laura Bracci. **"Evaluation of the antitumor effects of extra-virgin olive oil phenolic compounds extracted by a novel "green" chemistry approach: focus on oxidative genotoxic stress and inflammation"**. Poster SIICA: Società Italiana Immunologia, Immunologia Clinica e Allergologia. Perugia (17-20, 2025)

Michela Tozzi, Alessia Fiore, Ilenia Laterza, Paola Rinzo, Simona Donati, Sara Travaglione, Elena Angela Pia Germinario, Omar Leoni, Daniele Macchia, Massimo Spada, Sofia Tomasoni, Ranieri Verin, Filomena Colella, Donatella Lucchetti, Antonella Sistigu, Zaira Maroccia, Alessia Fabbri and Laura Bracci. **"CNF1 from E. coli favors colorectal cancer development and progression"**. Poster. 36° AICC International Meeting 2024: HIJACKING THE <<GOOD>> PATHWAYS: CANCER, IMMUNITY AND THERAPEUTIC APPROACHES. Rome (December 2-5, 2024)

Michela Tozzi, Alessia Fiore, Sara Travaglione, Gabriella Rainaldi, Ilenia Laterza, Simona Donati, Lucrezia Gambardella, Francesca Marcon, Donatella Pietraforte, Maria Cristina Quattrini, Olimpia Vincentini, Francesca Spadaro, Maria Carollo, Daniele Macchia, Massimo Spada, Sofia Tommasoni, Ranieri Verin, Roberta De Angelis, Alessia Fabbri and Laura Bracci. **"CNF1 toxin from E.coli induces oxidative DNA damage, intestinal permeability and colorectal neoplasia in vivo"**. Poster. ACC: 9TH ANNUAL MEETING NEW TECHNOLOGIES AND STRATEGIES TO FIGHT CANCER. Reggio Emilia (November 28-30, 2024)

Alessia Fiore, **Michela Tozzi**, Sara Travaglione, Elena Angela Pia Germinario, Simona Donati, Donatella Pietraforte, Maria Cristina Quattrini, Daniele Macchia, Massimo Spada, Omar Leoni, Sofia Tomasoni, Ranieri Verin, Alessia Fabbri and Laura Bracci. **"The role of E.coli toxin CNF1 in colorectal carcinogenesis: a preclinical study"**. LIPIBRAIN SummerSchool 2024.

Alessia Fiore, Sara Travaglione, **Michela Tozzi**, Donatella Pietraforte, Maria Cristina Quattrini, Massimo Spada, Daniele Macchia, Laura Bracci and Alessia Fabbri. **"Exploring the tumor-promoting potential of the Escherichia coli toxin CNF1: a preclinical study"**. Poster. ACC: 7TH ANNUAL MEETING NEW TECHNOLOGIES AND STRATEGIES TO FIGHT CANCER. Rome (September 21-23, 2022)