

CV Vincitori Premio Tarone under 35 – Edizione 2025

Battaglia, Anna Martina

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Current position

Fixed-term Researcher (RTD-A) in Experimental Biology (BIOS-10/A)

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Education

2026: Postgraduate Specialization School in Clinical Pathology and Clinical Biochemistry, non-medical track, Magna Graecia University of Catanzaro, Italy, 70/70 cum laude.

2022: PhD in Molecular and Translational Oncology and Innovative Medical-Surgical Technologies, Magna Graecia University of Catanzaro, Italy.

2021: Research training, CIMA Lab, University of Navarra, Pamplona, Spain.

2018: Master's degree in Medical, Veterinary and Pharmaceutical Biotechnology, Magna Graecia University of Catanzaro, Italy, 110/110 cum laude.

2018: Erasmus+ Traineeship, Champalimaud Foundation, Lisbon, Portugal.

Professional Appointments/ Previous Positions

2025: Italian National Scientific Qualification for Associate Professor in Applied Biology, 05/F1.

2023–present: Fixed-term Researcher (RTD-A) in Experimental Biology (BIOS-10/A), Department of Experimental and Clinical Medicine, Magna Graecia University of Catanzaro, Italy.

2016: Research collaboration contract in Advanced Biochemistry and Molecular Biology, Magna Graecia University of Catanzaro, Italy.

Awards and Honors

- FEBS Bursary Award, 50th FEBS Congress, 2026.

- Guido Tarone Award Under 35, XXIII AIBG National Congress, 2025.

- Best Publication Award 2023, Researcher Under 40, Magna Graecia University of Catanzaro, 2023.

- AIBG Congress Grant, XXI AIBG National Congress, 2023.

- Best Poster Award, 1st International Meeting and 32nd Annual AICC Conference, 2019.

Publications

Author of 31 scientific publications in indexed, peer-reviewed journals with Impact Factor. Bibliometric indicators (Scopus source): H-index 16; total citations 1212.

1. **Battaglia AM***, Sacco A, Giorgio E, Petriaggi L, et al. Expulsion of iron-rich ferritin via CD63-mediated exosome drives ferroptosis resistance in ovarian cancer cells. *Front Cell Dev Biol.* 2025;13:1532097. doi: 10.3389/fcell.2025.1532097.
2. Petriaggi L, Giorgio E, Bulotta S, Antonelli A, Bonacci S, Frisina M, Procopio A, Prestagiaco LE, Giuliano A, Gaspari M, Santamaria G, Federico G, Galeano C, Natali G, Giudice A, Costanzo F, **Battaglia AM†**, Biamonte F. Acute exposure to cadmium triggers NCOA4-mediated ferritinophagy and ferroptosis in never-smokers oral cancer cells. *Int J Biol Sci.* 2025;21(9):4131-4152. doi: 10.7150/ijbs.111228.
3. **Battaglia AM***, Sacco A, Aversa I, et al. Iron affects the sphere-forming ability of ovarian cancer cells in non-adherent culture conditions. *Front Cell Dev Biol.* 2023;11:1272667. doi: 10.3389/fcell.2023.1272667.
4. **Battaglia AM***, Sacco A, Aversa I, et al. Iron-mediated oxidative stress induces PD-L1 expression via activation of c-Myc in lung adenocarcinoma. *Front Cell Dev Biol.* 2023;11:1208485. doi: 10.3389/fcell.2023.1208485.
5. **Battaglia AM***, Sacco A, Perrotta ID, et al. Iron administration overcomes resistance to erastin-mediated ferroptosis in ovarian cancer cells. *Front Oncol.* 2022;12:868351. doi: 10.3389/fonc.2022.868351.

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Research Interests and major collaborations

Research activities focus on cancer cell biology, with emphasis on iron metabolism as a regulator of tumor initiation, progression, metastatic dissemination, microRNA regulation, cellular plasticity, stress adaptation and tumor-microenvironment communication. A major research line investigates ferroptosis as an iron-dependent form of regulated cell death and as a potential therapeutic vulnerability in treatment-resistant tumors. Additional interests include cancer stem cells and exosome-mediated intercellular communication in solid tumors, mainly ovarian, breast, lung, and head and neck cancers.

Major collaborations: Prof. Stefania Bulotta and Prof. Giovanni Cuda, Magna Graecia University of Catanzaro; Prof. Gennaro Ciliberto and Prof. Rita Mancini, Istituto Nazionale Tumori Regina Elena; Dr. Maria Chiara Mimmi, University of Pavia; Prof. Francesca Carlomagno, University of Naples Federico II; Prof. Ferdinando Chiaradonna, University of Milano-Bicocca; Prof. Sonia Levi, Vita-Salute San Raffaele University; Dr. Bruno Costa-Silva, Champalimaud Foundation; Prof. Bruno Paiva, CIMA University of Navarra.