INFORMAZIONI PERSONALI

Claudia Cozzolino

POSITION APPLIED FOR

Contratti di Ricerca nell'ambito del GSD 06/MEDS-26, SSD MEDS-26/A – Bando CDR n. 01/2025 prot. n. 0003939 del 18.11.2025

PROFESSIONAL EXPERIENCE

04/2022 - 08/2022

DOCTORAL MOBILITY PROGRAM

Centre de Recherche des Cordeliers - PARIS (France)

Handling and management of animal models (primarily mice) in in vivo experimental studies. Performed administration techniques (intraperitoneal, subcutaneous, and intravenous injections) and post-procedural monitoring.

11/2025 - 02/2026

RESEARCH FELLOWSHIP

Sapienza - LATINA (LT) Italy

The possible role of MST1 in the development of vascular disease.

04/2022 - 08/2022

RESEARCH FELLOWSHIP

Sapienza - LATINA (LT) Italy

Development of patient-specific models of the tumor microenvironment and magnetically guided immune system for the design of new therapeutic approaches in personalized medicine.

07/2020 - 10/2021

UNDERGRADUATE INTERNSHIP

Sapienza - LATINA (LT) Italy

Business or sector: biomedical
Main activities and responsibilities: Development of a research project aimed at the preparation of the experimental Master's thesis. Specifically, the project focused on the study of new molecular and cellular mechanisms of tissue and vascular injury.
Acquired skills and achieved objectives: Skills in cell culture (cell lines, primary cultures, 3D cultures), cellular biology techniques (flow cytometry, immunofluorescence, wound healing assay, analysis of paracrine factors), molecular biology techniques (real-time PCR, western blotting, analysis of non-coding RNAs). Proficient in scientific data analysis, basic statistical analyses, and graph preparation.

03/2019 - 09/2019

UNDERGRADUATE INTERNSHIP

Sapienza (RM) Italy

Business or sector: biomedical
Main activities and responsibilities: Development of a research project on the characterization of the reactivity of monoclonal antibodies against allelic variants of alpha1-antitrypsin.
Acquired skills and achieved objectives: Skills in cell culture (cell lines), protein extraction, antibody affinity assays (ELISA), and related data analysis.

EDUCATION

2022 - 2026

PHD IN EXPERIMENTAL MEDICINE

EQF level: 8
NQF level: Doctor of Philosophy (Ph.D.)

Sapienza Università di Roma

City: ROMA

2019-2021 **MEDICAL BIOTECHNOLOGY**

EQF level: 7
NQF level: 2nd cycle degree/Master of Science (2 years)

Sapienza Università di Roma

City: ROMA
2nd level degree in Pharmaceutical, veterinary and medical biotechnologies
Final degree mark: 110/110 cum laude
Dissertation/thesis title: Molecular and cellular mechanisms of cigarette smoke-induced cardiovascular damage

2016 - 2019 **BIOTECHNOLOGY**

EQF level: 6
NQF level: 1st cycle degree/Bachelor (3 years)

Sapienza Università di Roma
Town: ROMA

1st level degree in Biotechnologies

Final degree mark: 110/110
Dissertation/thesis title: Characterization of the reactivity of monoclonal antibodies against pathological variants of alpha1-antitrypsin

PERSONAL SKILLS

Native Language: Italian

Other languages

	COMPREHENSION		SPEAKING		WRITING
	Listening	Reading	Interaction	Speaking	
English	B2	B2	B2	B2	B2
Certificato d'inglese FCE - Cambridge, 23 07 2015 - European level: B2					

A1/A2: Basic User - B1/B2: Independent User - C1/C2: Proficient User
Common European Framework of Reference for Languages (CEFR)

Communication Skills: Excellent leadership and teamwork skills. Strong communication abilities developed through my academic experience. Outstanding presentation skills honed through weekly lab meetings during my PhD.

Organizational Skills: Good experience in project management and strong organizational skills developed during my PhD.

Professional Skills: Skills in cell culture (cell lines, primary cultures, 3D cultures), cellular biology techniques (flow cytometry, immunofluorescence, wound healing assay, analysis of paracrine factors), molecular biology techniques (real-time PCR, western blotting, analysis of non-coding RNAs). Proficient in scientific data analysis, basic statistical analyses, and graph preparation.

Digital Skills

SELF-ASSESSMENT				
Processing	Communication	Content Creation	Security	Problem Solving
Advanced User	Advanced User	Advanced User	Intermediate User	Intermediate User

Levels: Basic User – Intermediate User – Advanced User
Digital Skills – Self-Assessment

BASIC DIGITAL COMPETENCE:

OFFICE AUTOMATION
Presentation Software: (Intermediate) Web Browser: (Advanced)
APPLICATION SOFTWARE
Mendeley (Intermediate) Data Visualization: FlowJo (Foundation) Statistical analysis: GraphPad (Intermediate)
SYSTEMS AND NETWORKS MANAGEMENT
Operating systems: (Foundation)
GRAPHICS AND MULTIMEDIA
Raster graphic editor: ImageJ (Foundation)

Other Skills

Driving License B

ADDITIONAL INFORMATION

Publications

1. **Cozzolino Claudia***, Floris Erica*, Icolaro Francesca, Pontecorvi Virginia, Bordin Antonella, Frati Giacomo, Pagano Francesca, De Falco Elena, Picchio Vittorio*, Chimenti Isotta* (2025). Sirtuin-mediated modulation of cardiac fibrosis: Emerging molecular insights and therapeutic perspectives. PHARMACOLOGICAL RESEARCH, vol. 221, ISSN: 1096-1186, doi: 10.1016/j.phrs.2025.107970
2. "The Role of Cardiac Fibroblast Heterogeneity in Myocardial Fibrosis and Its Novel Therapeutic Potential"; Isotta Chimenti, Francesca Pagano, **Claudia Cozzolino**, Francesca Icolaro, Erica Floris, Vittorio Picchio; Int J Mol Sci (2025)
3. "The emerging role of artificial intelligence applied to exosome analysis: from cancer biology to other biomedical fields"; Vittorio Picchio, Virginia Pontecorvi, Xhulio Dhori, Antonella Bordin, Erica Floris, **Claudia Cozzolino**, Giacomo Frati, Francesca Pagano, Isotta Chimenti, Elena De Falco; Life Sciences (2025)
4. Picchio Vittorio, Pagano Francesca, Carnevale Roberto, D'Amico Alessandra, Cozzolino Claudia, Floris Erica, Bordin Antonella, Schirone Leonardo, Vecchio Daniele, Saade Wael, Miraldi Fabio, De Falco Elena, Sciarretta Sebastiano, Peruzzi Mariangela, Biondi-Zoccai Giuseppe, Frati Giacomo, Chimenti Isotta (2024). Exposure to serum from exclusive heated tobacco product smokers induces mTOR activation and fibrotic features in human cardiac stromal cells. BIOCHIMICA ET BIOPHYSICA ACTA. MOLECULAR BASIS OF DISEASE, vol. 1870, ISSN: 0925-4439, doi: 10.1016/j.bbadis.2024.167350
5. "Effect of traditional or heat-not-burn cigarette smoking on circulating miRNAs in healthy subjects"; Vittorio Picchio, Giulio Ferrero, **Claudia Cozzolino**, Barbara Pardini, Erica Floris, Sonia Tarallo, Xhulio Dhori, Cristina Nocella, Lorenzo Loffredo, Giuseppe Biondi-Zoccai, Roberto Carnevale, Giacomo Frati, Isotta Chimenti, Francesca Pagano; Eur J Clin Invest (2024)
6. "Early Impairment of Paracrine and Phenotypic Features in Resident Cardiac Mesenchymal Stromal Cells after Thoracic Radiotherapy" ; Vittorio Picchio, Roberto Gaetani, Francesca Pagano, Yuriy Derevyanchuk, Olivia Pagliarosi, Erica Floris, **Claudia Cozzolino**, Giacomo Bernava, Antonella Bordin, Filipe Rocha, Ana Rita Simões Pereira, Augusto Ministro, Ana Teresa Pinto, Elena De Falco, Gianpaolo Serino, Diana Massai, Radia Tamarat, Maurizio Pesce, Susana Constantino Rosa Santos, Elisa Messina, Isotta Chimenti ; Int J Mol Sci (2024)
7. "A Review of Therapeutic Strategies against Cardiac Fibrosis: From Classical Pharmacology to Novel Molecular, Epigenetic, and Biotechnological Approaches"; Erica Floris, **Claudia Cozzolino**, Sangar Marconi, Fabiana Tonicello, Vittorio Picchio, Francesca Pagano, Isotta Chimenti; Rev Cardiovasc Med (2023)
8. "Remote adipose tissue-derived stromal cells of patients with lung adenocarcinoma

generate a similar malignant microenvironment of the lung stromal cou"; Elena De Falco 1 2, Antonella Bordin 1, Cecilia Menna 3, Xhulio Dhori 1, Vittorio Picchio, **Claudia Cozzolino**, Elisabetta De Marinis, Erica Floris, Noemi Maria Giorgiano, Paolo Rosa, Erino Angelo Rendina, Mohsen Ibrahim, Antonella Calogero; Journal Of Oncology (2023)

9. "Modified risk tobacco products and cardiovascular repair. Still very smoky"; **Cozzolino Claudia**; Picchio Vittorio; Floris Erica; Francesca Pagano; Saade Wael; Peruzzi Mariangela; Frati Giacomo; Chimenti Isotta; CURRENT STEM CELL RESEARCH & THERAPY (2023)
10. "Multicellular 3D models for the study of cardiac fibrosis" ; Vittorio Picchio, Erica Floris, Yuriy Derevyanchuk, **Claudia Cozzolino**, Elisa Messina, Francesca Pagano, Isotta Chimenti, Roberto Gaetani; INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES (2022)
11. "The dynamic facets of the cardiac stroma: from classical markers to omics and translational perspectives" ; Vittorio Picchio, Antonella Bordin, Erica Floris, **Claudia Cozzolino**, Xhulio Dhori, Francesca Pagano, Mariangela Peruzzi, Giacomo Frati, Elena De Falco, Isotta Chimenti; American Journal of Translational Research (2022)
12. "Progressive stages of dysmetabolism are associated with impaired biological features of human cardiac stromal cells mediated by the oxidative state an"; Francesca Pagano, Vittorio Picchio, Antonella Bordin, Elena Cavarretta, Cristina Nocella, **Claudia Cozzolino**, Erica Floris, Francesco Angelini, Alessia Sordano, Mariangela Peruzzi, Fabio Miraldi, Giuseppe Biondi-Zoccai, Elena De Falco, Roberto Carnevale, Sebastiano Sciarretta, Giacomo Frati, Isotta Chimenti; The journal of pathology (2022)
13. "Reduction of Cardiac Fibrosis by Interference With YAP-Dependent Transactivation" ; Garoffolo G, Casaburo M, Amadeo F, Salvi M, Bernava G, Piacentini L, Chimenti I, Zaccagnini G, Milcovich G, Zuccolo E, Agrifoglio M, Ragazzini S, Baasansuren O, **Cozzolino C**, Chiesa M, Ferrari S, Carbonaro D, Santoro R, Manzoni M, Casalis L, Raucci A, Molinari F, Menicanti L, Pagano F, Ohashi T, Martelli F, Massai D, Colombo G, Messina E, Morbiducci U, Pesce M; Circulation research (2022)

Congress

1. **CBFH Biennial meeting**, Napoli. OPA1 regulates mitochondrial dynamics and profibrotic differentiation in cardiac fibroblasts. (Oral poster presentation). 26/11/2025
2. **SIRTEPS Congress**, Ventotene. OPA1-Mediated Mitochondrial Dynamics Regulate the Phenotype of Cardiac Stromal Cells. (Oral poster presentation). 08/06/2025
3. **Danish Cardiovascular Academy (DCA) summer meeting**, Nyborg. Investgatng the role of OPA1 and mitochondrial dynamics in modulatng cardiac stromal cell phenotype. (Oral poster presentation). 22/06/2025
4. **ESC Congress**, Londra. Anti-fibrotic effects of the sirt6-activator mdl-800 in cardiac stromal cells. (Oral poster presentation). 30/08/2024
5. **Società Italiana di Cardiologia (SIC), Roma.** The role of OPA1 and mitochondrial dynamics in the biology of resident cardiac stromal cells. (Oral presentation). 14/12/2023

Licenses and Certifications

1. Training course for the protection of laboratory animals in scientific research
2. Licensed as a professional biologist senior (Section A)

Foundings

1. Proponente “Avvio alla ricerca” - 2025 – “INVESTIGATING THE ROLE OF OPA1-MEDIATED MITOCHONDRIAL DYNAMICS IN CARDIAC FIBROBLAST ACTIVATION AND FIBROSIS”
2. Proponente “Avvio alla ricerca” - 2024 – “ANTI-FIBROTIC EFFECTS OF THE SIRT6-ACTIVATOR MDL-800 IN CARDIAC STROMAL CELLS”
3. Proponente “Avvio alla ricerca” – 2023 – “THE ROLE OF OPA1 AND MITOCHONDRIAL DYNAMICS IN THE BIOLOGY OF RESIDENT CARDIAC STROMAL CELLS”

Personal Information

Autorizzo il trattamento dei miei dati personali ai sensi del Decreto Legislativo 30 giugno 2003, n. 196 "Codice in materia di protezione dei dati personali”.

Ia sottoscritta dichiara di essere consapevole che il presente *curriculum vitae* sarà pubblicato sul sito istituzionale dell’Ateneo, nella Sezione “Amministrazione trasparente”, nelle modalità e per la durata prevista dal d.lgs. n. 33/2013, art. 15.

Data 25/02/2026 f.to Claudia Cozzolino

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