INFORMAZIONI PERSONALI

Erica Floris

OCCUPAZIONE PER LA QUALE SI CONCORRE

Contratto 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

ESPERIENZA PROFESSIONALE

04/11/2024 – 28/02/2026

Post-doctoral research fellowship

Prof. Isotta Chimenti laboratory. Department of Medical Surgical Sciences and Biotechnology, Sapienza University of Rome

- Elucidating MOlecular and cellular MEchanisms of cardiovascular iNsult by modified risk TObacco products (MOMENTO)

04/04/2024 – 31/07/2024

PhD student international mobility internship

Prof. Alessandra Moretti laboratory. Department of Internal Medicine I, Chair for Regenerative Medicine in Cardiovascular Diseases, Technical University of Munich, Germany

- cardiovascular regenerative medicine, human induced pluripotent stem cells, cardiac organoids

01/11/2021 – 30/01/2025

PhD student internship

Prof. Isotta Chimenti laboratory. Department of Medical Surgical Sciences and Biotechnology, Sapienza University of Rome

- isolation and characterization of cardiac stromal cells, mouse models, 3D spheroid cultures, cardiovascular physiopathology

July 2020 – October 2021

Undergraduate student internship

Prof. Isotta Chimenti laboratory. Department of Medical Surgical Sciences and Biotechnology, Sapienza University of Rome

- isolation and characterization of cardiac stromal cells, mouse models, 3D spheroid cultures, cardiovascular physiopathology

April 2019 – July 2019

Undergraduate student internship

Prof. Carlo Presutti laboratory. Department of Biology and Biotechnology Charles Darwin, Sapienza University of Rome

- expression of long non-coding RNAs in melanoma cells

ISTRUZIONE E FORMAZIONE

30th January 2025

PhD student in Life Sciences

Sapienza University of Rome

28th October 2021

Master Degree in Medical Biotechnology

Sapienza University of Rome

Graduated with honours (110/110 cum laude)

Experimental dissertation: "Phenotypic and functional characterization of cardiac stromal cells in a Charme knock-out mouse model"

15th July 2019

Bachelor Degree in Biotechnology

Sapienza University of Rome

Graduated with honours (110/110 cum laude)
Experimental dissertation: “Characterization of long non-coding RNAs expression in melanoma”

Oct. 2024

Training and updating practical course for the protection and manipulation of animals in the scientific research: small rodents and lagomorphs.

Sostituire con il livello QEQ o altro, se conosciuto

Università Cattolica del Sacro Cuore

Nov. 2023

Theoretical course on national legislation, ethics and project planning, biology and management of laboratory animals.

IZSLER Istituto Zooprofilattico Sperimentale della Lombardia e dell’Emilia Romagna

COMPETENZE PERSONALI

Lingua madre: Italiano

Altre lingue

	COMPRENSIONE		PARLATO		PRODUZIONE SCRITTA
	Ascolto	Lettura	Interazione	Produzione orale	
Inglese	C1	C1	C1	C1	C1

Livelli: A1/A2: Utente base - B1/B2: Utente intermedio - C1/C2: Utente avanzato
Quadro Comune Europeo di Riferimento delle Lingue

Competenze professionali

Cellular and molecular biology: Basic techniques (DNA/RNA/Protein extraction, gel electrophoresis of nucleic acids, Polymerase Chain Reaction (PCR), Real Time-PCR, Western Blot, ELISA, Proteome array, Immunofluorescence, Immunohistochemistry, Flow Cytometry, Ultracentrifugation). Mammalian cell-culture techniques. Cardiac tissue primary cell culture.
Lab Animals: Mice handling, Euthanasia procedures, Organ collection. Heart perfusion and single cell dissociation.
IT and Softwares: Microsoft Office, FlowJo (Flow cytometry data analisys), ImageLab (Western blot image analisys), Prism-GraphPad (Statistical analysis), ImageJ.

Patente di guida: B

ULTERIORI INFORMAZIONI

Pubblicazioni

- Floris, E; Pompeo, F; Picchio, V; Miglietta, S; De Mei, V; Cozzolino, C; Icolaro, F; Petrozza, V; Frati, G; Chimenti, I; De Sio, L (2026). Killing of gold nanorods-loaded human cardiac fibroblasts mediated by photo-thermal activation, ACS OMEGA . ISSN 2470-1343. - 11:6(2026), pp. 10589-10602. [10.1021/acsomega.5c12235]
- Erica Floris, Francesco Nutile, Claudia Cozzolino, Virginia Pontecorvi, Antonella Bordin, Elena De Falco, Vittorio Picchio, Isotta Chimenti, Francesca Pagano (2025). Cardiometabolic therapies shape non-coding RNA landscapes in cardiovascular fibrosis, METABOLITES, 15, 664. doi.org/10.3390/metabo15100664
- Claudia Cozzolino, Erica Floris, Francesca Icolaro, Virginia Pontecorvi, Antonella Bordin, Giacomo Frati, Francesca Pagano, Elena De Falco, Vittorio Picchio, Isotta Chimenti (2025). Sirtuin-mediated modulation of cardiac fibrosis: Emerging molecular insights and therapeutic perspectives. PHARMACOLOGICAL RESEARCH, Vol. 221, 107970 doi.org/10.1016/j.phrs.2025.107970
- Picchio Vittorio, Pontecorvi Virginia, Dhori Xhulio, Bordin Antonella, Floris Erica, Cozzolino Claudia,

Frati Giacomo, Pagano Francesca, Chimenti Isotta, De Falco Elena (2025). The emerging role of artificial intelligence applied to exosome analysis. From cancer biology to other biomedical fields. LIFE SCIENCES, vol. 375, ISSN: 1879-0631, doi: 10.1016/j.lfs.2025.123752

- Chimenti Isotta, Pagano Francesca, Cozzolino Claudia, Icolaro Francesca, Floris Erica, Picchio Vittorio (2025). The role of cardiac fibroblast heterogeneity in myocardial fibrosis and its novel therapeutic potential. INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, vol. 26, ISSN: 1422-0067, doi: 10.3390/ijms26125882.
- Picchio Vittorio; Gaetani Roberto; Derevyanchuk Yuriy; Pagliarosi Olivia; Floris Erica; Cozzolino Claudia; Bordin Antonella; De Falco Elena; Messina Elisa; Chimenti Isotta (2024). Early impairment of paracrine and phenotypic features in resident cardiac mesenchymal stromal cells after thoracic radiotherapy. INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, vol. 25, ISSN: 1422-0067, doi: 10.3390/ijms25052873.
- Vittorio Picchio; Francesca Pagano; Roberto Carnevale; Alessandra D'Amico; Claudia Cozzolino; Erica Floris; Antonella Bordin; Leonardo Schirone; Daniele Vecchio; Wael Saade; Fabio Miraldi; Elena De Falco; Sebastiano Sciarretta; Mariangela Peruzzi; Giuseppe Biondi-Zoccai; Giacomo Frati; Isotta Chimenti (2024). Exposure to serum from exclusive heated tobacco product smokers induces mTOR activation and fibrotic features in human cardiac stromal cells. BBA - Molecular Basis of Disease (BBADIS), 1870(7):167350. doi: 10.1016/j.bbadis.2024.167350. Epub 2024 Jul 15.
- E Floris, V Picchio, C Cozzolino, V Taliani, G Buonaiuto, C Nicoletti, M Ballarino, I Chimenti, F Pagano (2023). The role of Charme in the phenotype and function of resident cardiac mesenchymal stromal cells. European Heart Journal, Volume 44, Issue Supplement_2, November 2023, ehad655.3044, https://doi.org/10.1093/eurheartj/ehad655.3044.
- 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 (2023). Effect of traditional or heat-not-burn cigarette smoking on circulating miRNAs in healthy subjects. European journal of clinical investigation, pp. e14140- - ISSN: 0014-2972, doi: 10.1111/eci.14140.
- Floris E.*; Cozzolino C.*; Marconi S.; Tonicello F.; Picchio V.; Pagano F.; Chimenti I (2023). A review of therapeutic strategies against cardiac fibrosis. From classical pharmacology to novel molecular, epigenetic, and biotechnological approaches. Reviews in cardiovascular medicin, ISSN 1530-6550. - 24:8(2023). [10.31083/j.rcm2408226] (*Equal contribution)
- Cozzolino Claudia, Picchio Vittorio, Floris Erica, Pagano Francesca, Saade Wael, Peruzzi Mariangela, Frati Giacomo, Chimenti Isotta (2023). Modified risk tobacco products and cardiovascular repair. Still very smoky. Current stem cell research & therapy, vol. 18, p. 440-444, ISSN: 1574-888X, doi: 10.2174/1574888X17666220802142532
- Elena De Falco, Antonella Bordin, Cecilia Menna, Xhulio Dhori, Vittorio Picchio, Claudia Cozzolino, Elisabetta De Marinis, Erica Floris, Noemi Maria Giorgiano, Paolo Rosa, Erino Angelo Rendina, Mohsen Ibrahim, Antonella Calogero (2023). Remote adipose tissue-derived stromal cells of patients with lung adenocarcinoma generate a similar malignant microenvironment of the lung stromal counterpart. Journal of oncology, vol. 2023, p. 1-15, ISSN: 1687-8450, doi: 10.1155/2023/1011063
- Vittorio Picchio*, Erica Floris*, Yuriy Derevyanchuk, Claudia Cozzolino, elisa messina, Francesca Pagano, Chimenti I, Roberto Gaetani (2022). Multicellular 3D models for the study of cardiac fibrosis. International journal of molecular sciences, vol. 23, p. 1-14, ISSN: 1422-0067, doi: 10.3390/ijms231911642 (*Equal contribution)
- Picchio, V., Bordin, A., Floris, E., Cozzolino, C., Dhori, X., Peruzzi, M., Frati, G., De Falco, E., Pagano, F., & Chimenti, I. (2022). The dynamic facets of the cardiac stroma: from classical markers to omics and translational perspectives. American Journal of Translational Research, 14(2), 1172–1187. www.ajtr.org
- Pagano F, Picchio V, Bordin A, Cavarretta E, Nocella C, Cozzolino C, Floris E, Angelini F, Sordano A, Peruzzi M, Miraldi F, Biondi-Zoccai G, De Falco E, Carnevale R, Sciarretta S, Frati G, Chimenti I. (2022). Progressive stages of dysmetabolism are associated with impaired biological features of human cardiac stromal cells mediated by the oxidative state and autophagy. Journal of Pathology, vol. 258, p. 136-148, ISSN: 0022-3417, doi: 10.1002/path.5985.

Progetti

2025-2026

Principal investigator, Sapienza University call 2020 for Starting Grants “Avvio alla Ricerca”. Project title: “ Investigating the selective photo-thermal ablation of cardiac fibroblasts using gold nanorods as a potential application in the treatment of cardiac fibrosis”. Protocol: AR2251999B31C24B.

2023-2024

Principal investigator, Sapienza University call 2020 for Starting Grants “Avvio alla Ricerca”. Project title: “Application of gold nanorods (AuNRs) for the specific targeting of myofibroblasts to attenuate

cardiac fibrosis". Protocol: AR123188B3ECD2B0.

2022- 2023
Principal investigator, Sapienza University call 2020 for Starting Grants "Avvio alla Ricerca". Project title: "Study of the role of the long non-coding RNA Charme in the functional phenotype of cardiac stromal cells". Protocol: AR12218167E8FA71.

Riconoscimenti e premi

11th October 2023
Funding from "Sapienza" University of Rome for PhD student International Mobility

27th March 2023
Sapienza Award as Excellent Graduate for the academic year 2020/2021

Presentazioni

13th May 2025
Poster presentation, XXV ISHR World Congress, Nara, Japan: Unraveling the role of the lncRNA Charme in resident cardiac mesenchymal stromal cells: from extracellular matrix regulation to functional activation and paracrine signaling.

8th October 2024
Oral presentation at ncRNA2024 Conference, Basel, Switzerland: The role of the long non-coding RNA Charme in the phenotype and function of resident cardiac mesenchymal stromal cells.

14th December 2023
Poster presentation, 84th Annual Meeting of the Italian Society of Cardiology (SIC), Rome, Italy: Study of the phenotype and function of resident cardiac mesenchymal stromal cells in the Charme knock-out mouse model.

28th August 2023
Moderated ePoster presentation, European Society of Cardiology (ESC) Congress, Amsterdam, Netherlands. The role of Charme in the phenotype and function of resident cardiac mesenchymal stromal cells.

Referenze

Sapienza University of Rome:
Prof. Isotta Chimenti: isotta.chimenti@uniroma1.it
National Research Council:
Dr Francesca Pagano: francesca.pagano@cnr.it

Dati personali

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".

la 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

Erica Floris