

INFORMAZIONI PERSONALI

Arianna Filippelli

OCCUPAZIONE PER LA QUALE
SI CONCORRE
POSIZIONE RICOPERTA
TITOLO DI STUDIO
OBIETTIVO PROFESSIONALE

Ricercatore post-doc;
Assegnista di ricerca;
PhD in Biochemistry and molecular biology- Biologa abilitata sez A
Ricercatore-junior PI

ESPERIENZA
PROFESSIONALE

July 2023 – March 2024

PhD Visiting Student

Yale Cardiovascular Research Center, Yale School of Medicine, New Haven, USA
Supervisor: Prof. Michael Simons, M.D

- In vivo and in vitro assays for angiogenic profile assessment on endothelial cells.
- Brain ischemic models and vascular injury evaluation.
- Macrophage isolation and evaluation of differentiation features.
- Investigation of proangiogenic peptides' impact on vascular stability

February 2021 – October 2022

Attività o settore Cardiovascular and molecular biology research

Research Fellow

Laboratory of Pharmacology of Angiogenesis and Oncology, University of Siena
Supervisor: Prof. Sandra Donnini

- Immunohistological and molecular analysis of angiogenic markers.
- Protocol development for analysis of platelets and exosomes.
- Evaluation of cellular function in response to pathological stimuli.

February 2020 – January 2021

Attività o settore Study of the angiogenic profile in patients with NSCLC undergoing immune checkpoint inhibitors

Research Fellow

Laboratory of Pharmacology of Angiogenesis and Oncology, University of Siena
Supervisor: Prof. Lucia Morbidelli

- Investigation of inflammaging, oxidative stress, and vascular senescence mechanisms.
- Statistical data analysis for molecular research

April 2019 – November 2019

Attività o settore Study of the mechanisms of endothelial dysfunction and pharmacological countermeasures

Traineeship and Thesis Internship

Laboratory of Pharmacology of Angiogenesis and Oncology, University of Siena
Supervisor: Prof. Lucia Morbidelli

Cell cultures and biotechnological research for cancer therapy studies.

May 2016 – October 2016

Attività o settore Cancer molecular biology research

Traineeship and Thesis Internship

University of Sannio, Laboratory of Molecular and Cellular Biology, Benevento
Supervisor: Prof. Lina Sabatino

Gene extraction, PCR, immunohistochemistry, and protein quantification

Attività o settore Molecular biology

ISTRUZIONE E FORMAZIONE

07/2023–03/2024	PhD visiting student, Yale Cardiovascular research center	EQF Level 8 (Doctorate)
	<p>Yale Cardiovascular Research Center, Yale School of Medicine, New Haven, USA Supervisor: Prof. Michael Simons, M.D</p> <ul style="list-style-type: none"> In vivo and in vitro assays on cardiovascular molecular biology 	
11/2022–10/2024	PhD student in biochemistry and molecular biology (BIBIM 2.0) XVII cycle	EQF Level 8 (Doctorate)
	<p>University of Siena, Siena , Italy Supervisor: Prof. Lucia Morbidelli</p> <ul style="list-style-type: none"> In vivo assays to study endothelium and cancer molecular biology 	
07/2020	BIOLOGIST QUALIFICATION EXAM (SEC. A)	Professional Qualification
	<p>University of Siena, Siena , Italy</p>	
09/2017–12/2019	MASTER DEGREE IN MOLECULAR AND CELLULAR BIOLOGY	EQF Level 7 (Master Degree)
	<p>Dep. of Life Sciences, University of Siena, Siena Supervisor: Prof. Lucia Morbidelli Final thesis in Pharmacology, "Pharmacological characterization of novel inhibitors of Carbonic Anhydrase IX in cancer cells"</p> <ul style="list-style-type: none"> Acquisition of scientific and technical knowledge and skills peculiar to the molecular field aimed at the application in scientific research, skills in laboratory activities and team activities, skills in the realization of Journal Club. 	
10/2013-03/2017	BACHELOR'S DEGREE IN LIFE SCIENCES	EQF Level 6 (Bachelor Degree)
	<p>Dep. of Science and technology, University of Sannio, Benevento Supervisor: Prof. Lina Sabatino</p> <p>Acquisition of scientific and mathematical knowledge and skills, skills in laboratory activities and team activities. Knowledge and application of laboratory techniques. Deepening of the implication of telomere in oncological research. English knowledge and skills (level b2) Acquisition of basic computer skills and computer programming in R</p>	
07/2023–03/2024	MASTER DEGREE IN MOLECULAR AND CELLULAR BIOLOGY	EQF Level 7 (Master Degree)
	<p>Dep. of Life Sciences, University of Siena, Siena Supervisor: Prof. Lucia Morbidelli Final thesis in Pharmacology, "Pharmacological characterization of novel inhibitors of Carbonic Anhydrase IX in cancer cells"</p> <ul style="list-style-type: none"> Acquisition of scientific and technical knowledge and skills peculiar to the molecular field aimed at the application in scientific research, skills in laboratory activities and team activities, skills in the realization of Journal Club. 	

COMPETENZE PERSONALI

Lingua madre Italiano

Altre lingue

Inglese

COMPRESIONE		PARLATO		PRODUZIONE SCRITTA
Ascolto	Lettura	Interazione	Produzione orale	
B2/C1	B2/C1	B2/C1	B2/C1	B2/C1

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

Competenze collaterali

- Mentorship and thesis supervision for undergraduate and postgraduate students
 - Participation in reception and guidance for foreign students
 - Educational workshops and open-day activities for the University of Siena
- Dedicated researcher passionate about exploring new frontiers of medicine, particularly in target therapy and personalized medicine. Driven by curiosity and a strong sense of responsibility, I aim to contribute meaningfully to advancements in life sciences.

Competenze professionali

- Experimental skills in biological and pharmacological studies
- Knowledge in chemical-biological and physical-mathematical fields
- Advanced laboratory techniques and mentoring abilities
- English proficiency (B2 level)
- Computer skills including programming in R
- Classical and humanistic cultural knowledge
- Strong organizational and collaboration skills
- Aspiration for research and development in target therapy and personalized medicine

Competenze digitali

AUTOVALUTAZIONE				
Elaborazione delle informazioni	Comunicazione	Creazione di Contenuti	Sicurezza	Risoluzione di problemi
Inserire il livello	Inserire il livello	Inserire il livello	Inserire il livello	Inserire il livello

Livelli: Utente base - Utente intermedio - Utente avanzato
[Competenze digitali - Scheda per l'autovalutazione](#)

Sostituire con il nome dei certificati TIC

Sostituire con altre competenze informatiche possedute. Specificare in quale contesto sono state acquisite. Esempi:

- buona padronanza degli strumenti della suite per ufficio (elaboratore di testi, foglio elettronico, software di presentazione)
- buona padronanza dei programmi per l'elaborazione digitale delle immagini acquisita come fotografo a livello amatoriale

Altre competenze

[Membership of Scientific Societies](#)

- Federazione Italiana Scienze della Vita (FISV)
- Società Italiana di Farmacologia (SIF)
- Società Italiana di Tossicologia (SITOX)

Reviewer activity

- Mdpi journals
- Elsevier
- Hematology

Patente di guida B

 ULTERIORI INFORMAZIONI

Pubblicazioni

Filippelli A, Ciccone V, Loppi S, Morbidelli L. Promising Support Coming from Nature: Antioxidant and Anti-Inflammatory Potential of *Castanea sativa* Wood Distillate on Skin Cells. *Current Issues in Molecular Biology*. 2024; 46(9):9386-9400. <https://doi.org/10.3390/cimb46090556>.

Filippelli A, Ciccone V, Del Gaudio C, Simonis V, Frosini M, Tusa I, Menconi A, Rovida E, Donnini S. "ERK5 mediates pro-tumorigenic phenotype in non-small lung cancer cells induced by PGE2". *BBA Molecular Cell Research*. 2024. <https://doi.org/10.1016/j.bbamcr.2024.119810>.

Genah S, Ciccone V, **Filippelli A**, Simonis V, Martelli A, Piragine E, Pagnotta E, Pecchioni N, Calderone V, Morbidelli L. "Erucin, a natural isothiocyanate, exerts pro-angiogenic properties in cultured endothelial cells and reverts angiogenic impairment induced by high glucose". *Phytother Res*. 2024;38(6):2641-2655. doi:10.1002/ptr.8183

Filippelli A, Del Gaudio C, Simonis V, Ciccone V, Spini A, Donnini S. "Scoping Review on Platelets and Tumor Angiogenesis: Do We Need More Evidence or Better Analysis?". *Int J Mol Sci*. 2022 Nov 2;23(21):13401. doi: 10.3390/ijms232113401.

Ciccone V, **Filippelli A**, Bacchella C, Monzani E, Morbidelli L. "The Nitric Oxide Donor [Zn(PipNONO)Cl] Exhibits Antitumor Activity through Inhibition of Epithelial and Endothelial Mesenchymal Transitions". *Cancers (Basel)*. 2022 Aug 31;14(17):4240. doi: 10.3390/cancers14174240.

Ciccone V, Terzuoli E, Ristori E, **Filippelli A**, Ziche M, Morbidelli L, Donnini S. "ALDH1A1 overexpression in melanoma cells promotes tumor angiogenesis by activating the IL-8/Notch signaling cascade". *Int J Mol Med*. 2022 Jul;50(1):99. doi: 10.3892/ijmm.2022.5155.

Filippelli A, Ciccone V, Donnini S, Lucia Morbidelli. "State-of-the-art in antiangiogenic agents in cancer therapy". *Onco Therapeutics*. 2021;8(1). DOI: 10.1615/ForumImmunDisTher.2021039875

Filippelli A, Ciccone V, Loppi S, Morbidelli L. "Characterization of the safety profile of sweet chestnut wood distillate employed in agriculture". *Safety*. 2021;7(4):79. doi.org/10.3390/safety7040079.

Filippelli A, Ciccone V, Donnini S, Morbidelli L. "Molecular mechanisms of resistance to anti-angiogenic drugs". Review. *Critical Reviews in Oncogenesis*. 2020. doi: 10.1615/CritRevOncog.2020035422

Ciccone V, **Filippelli A**, Angeli A, Supuran CT, Morbidelli L. "Pharmacological Inhibition of CA-IX Impairs Tumor Cell Proliferation, Migration and Invasiveness". *Int J Mol Sci*. 2020;21(8):2983. Published 2020 Apr 23. doi:10.3390/ijms21082983

Presentazioni

- **Filippelli A**, Ristori E, Corti F, D'Andrea LD, De Rosa L, Ziche M, Simons M, Morbidelli L. "Pharmacological profile of VEGF-mimetic peptides QK and HPLW2". 42° Congress Nazionale SIF (Società Italiana di Farmacologia). Sorrento, 2024. *Oral Communication*
- **Filippelli A**, Ciccone V, Simonis V, Del Gaudio C, Morbidelli L, Scotti V., Bengala C, Donnini S. "Platelet involvements in angiogenic profiling of NSCLC patients". 42° Congress Nazionale SIF

(Società Italiana di Farmacologia). Sorrento, 2024. Poster

- - **Filippelli A**, Ciccone V, Simonis V, Del Gaudio C, Morbidelli L, Tusa I, Rovida E, Donnini S. "Prostaglandin E2 and ERK5: empowered players in NSCLC malignancy". 42° Congresso Nazionale SIF (Società Italiana di Farmacologia). Sorrento, 2024. Poster
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 - Ristori E, Corti F, **Filippelli A**, Zhang J, Velasco J, Akar F, Simons M. "Deciphering the role of Syndecan-2 p.K28E mutation". Annual retreat VBT Yale. 2024. *Poster*
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 - Donnini S, Simonis V, Del Gaudio C, **Filippelli A**, Ciccone V, Pinzani P, Scotti V, Bengala C. "Angiogenic profile in patients with NSCLC". 48° Congresso FEBS. Milan, 2024. *Poster*
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 - **Filippelli A.**, Ciccone V, Del Gaudio C, Simonis V, Bengala C, Scotti V, Donnini S. "Study of angiogenic profile in patients with NSCLC". 41° Congresso Nazionale SIF (Società Italiana di Farmacologia). Roma, 2022. *Poster*
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 - **Filippelli A**, Ciccone V, Simonis V, Del Gaudio C, Morbidelli L, Rovida E, Donnini S. "The correlation between Prostaglandin E2 and ERK5 modulates the behavior of NSCLC cells". 41° Congresso Nazionale SIF (Società Italiana di Farmacologia). Roma, 2022. *Poster*
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 - **Filippelli A**, Ciccone V, Morbidelli L. "Profiling of potential pharmacological activity of Sweet Chestnut wood distillate as antioxidant and anti-inflammatory agent". XVI Congresso FISV. Portici, 2021. *Poster*
 -
 - **Filippelli A**, Ciccone V, Loppi S, Morbidelli L. "Safety profile of *Sweet Chestnut* wood distillate: from agriculture use to in vitro analysis". 20° Congresso Nazionale della Società Italiana di Tossicologia, Sostanze di origine naturale: farmaci, veleni o entrambi. Bologna, 2021. *Poster*
 -
 - **Filippelli A**, Ciccone V, Angeli A, Supuran CT, Morbidelli L. "Carbonic Anhydrase IX: a novel pharmacological target to impair tumor cells proliferation, invasiveness and malignancy". 40° Congresso Nazionale SIF (Società Italiana di Farmacologia). Milano, 2020. *Poster- Best poster prize at the 40th SIF National Congress*
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 - Ciccone V, **Filippelli A**, Flori L, Macaluso M, Taglieri I, Sanmartin A, Sgheri C, De Leo M, Venturi F, Pistelli L, Martelli A, Calderine V, Testai L., Zinnai A, Donnini S.
 - "Anti-inflammatory and antioxidative properties of fortified Citrus Olive Oil on aorta vessels of high fat diet treated rats". 40° Congresso Nazionale SIF (Società Italiana di Farmacologia). Milano, 2020. *Poster*
 -
 - Genah S, **Filippelli A**, Ciccone V, Angeli A, Supuran C.T., Morbidelli L. "Effectiveness and safety studies on new Carbonic Anhydrase IX inhibitors on tumor and endothelial cells". 19° Congresso Nazionale SITOX (Società Italiana di Tossicologia), Bologna, 11-12 February 2020. *Poster*.
- Esempio di progetto:
- La nuova biblioteca pubblica di Devon. Architetto a capo del progetto e realizzazione, della supervisione della commessa e della costruzione (2008-2012).

Workshop
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Filippelli A. *Oral communication*: "Safety of wood distillate: assessment on human cell cultures". XI Workshop Biodea- Parola alla ricerca. Accademia dei Fisiocritici, Siena, 11 June 2021

Workshop: "The use of bio-based products Wood distillate and Biochar BioDea an alternative in plant defense" I edition. Workshops series. September 2020-June 2021, Accademia dei Fisiocritici, Siena

Riconoscimenti e premi

SIF research grant for short periods abroad for a study period at Yale University School of Medicine, New Haven (USA), of at least 9 months, to carry out a project related to "Assessment of therapeutic potential of proangiogenic peptides QK and HPLW in ischemic disorders".

Erasmus+ program: Erasmus for traineeship from July 2023 to March 2024.

Best poster prize at 40th National congress of Italian Society of Pharmacology (SIF). Milano, 2020.

Corsi & Certificazioni

“AALAS certified course: Reporting Adverse Events Policy: Yale”

July 2023, Yale University

“AALAS certified course: Reporting Animal Care and Use Concerns: Yale”

July 2023, Yale University

“AALAS certified course: Euthanasia Policy Guidelines and Procedures: Yale”

July 2023, Yale University

CITI Program certified courses, Yale program, July 2023

Introduction to Working With the IACUC

Genetics Research, Biomedical Research

Basic Course in Laboratory Animal Welfare for Investigators, Staff and Students

Lab Animal Research: Reducing Pain and Distress in Laboratory Mice and Rats, Aseptic Surgery

GCP – Social and Behavioral Research Best Practices for Clinical Research

“Medicines: Regulatory Tools, I ciclo”

30 September, 12 October and 9 November 2020.

SIF-Società italiana di Farmacologia, SIMeF - Società Italiana di Medicina Farmaceutica e SIARV - Società Italiana Attività Regolatorie

“Mycareer- I edizione”

Course of 21 hours: from 14-05-2019/20-05-2019

Tuscany Region, in collaboration with the University of Siena, for the development of soft skills and the means to enter the world of work and the many opportunities to be explored.

“LABORATORY ANIMAL SCIENCE AND BIOETHICS”

Università of Siena

“WORKPLACE HEALTH AND SAFETY TRAINING COURSE”

(High Risk Scientific Area)

Duration 16 hours: 09/11-04-2018

University of Siena

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".

Io sottoscritto/a dichiaro 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 28/01/2025

f.to ARIANNA FILIPPELLI