

PERSONAL INFORMATION

Alessia Filippone

✉ alessia.filippone@unicamillus.org
 ⓘ <https://www.linkedin.com/in/alessia-filippone-1168a0184/>

ORCID ID: 0000 – 0002 – 9642 – 6844

Current position

Associate Professor of Pharmacology GSD 05/BIOS-11, Pharmacology SSD BIOS-11/A, at University Unicamillus, Rome, Italy

WORK EXPERIENCE(S)

From March 2023, to October 2025

Researcher of Pharmacology type A (BIOS-11/A ex BIO/14)

PNRR "SAMOTHRACE - SiciliAn MicronanOTech Research And Innovation Center – CUP J43C22000310006 (WP3 - Work Package Health - Advanced Micro-Nano Technologies and Devices for Health). Department of Chemical, Biological, Pharmacological and Environmental Sciences. University of Messina. Italy
 Business or sector Scientific research activity: disciplinary scientific sector (BIO/14).

From May 2022, to February 2023

Postdoctoral fellowship at the University of Messina

Research for realization of the project entitled "New therapeutic approaches in the control of neuroinflammation". Supervisor: Prof. Paterniti Irene, Associate Professor of Pharmacology.

From May, 2021 to April 2022

EPITECH GROUP Spa Company Collaborator

Scientific collaboration for realization of the project entitled "Development of therapeutic strategies based on N-Acylethanolamine for counteracting osteoarticular degeneration".

From January, 2021 to April, 2021

Post-doctoral advanced training. Pharmacology Laboratory

University of Messina, Department of Chemical, Biological, Pharmacological and Environmental Sciences, Messina, Italy
 Supervisor Prof. Emanuela Esposito. Full Professor of Pharmacology. Unit of Pharmacology. Department of Chemical, Biological, Pharmacological and Environmental Sciences. University of Messina. Italy
 Business or sector Scientific research activity: disciplinary scientific sector (BIO/14)

November 1st, 2016 to September 30th, 2017

Trainee graduate student. Pharmacology Laboratory

University of Messina, Department of Chemical, Biological, Pharmacological and Environmental Sciences, Messina, Italy

Improvement of molecular biology techniques, morphological imaging and histological skills related to in vitro and in vivo experimental studies. Enhancement of data processing, elaboration, and presentation

Supervisor(s)

-Prof. Salvatore Cuzzocrea. Full Professor of Pharmacology, Unit of Pharmacology. Department of Chemical, Biological, Pharmacological and Environmental Sciences. University of Messina. Italy
 -Prof. Emanuela Esposito. Full Professor of Pharmacology. Unit of Pharmacology. Department of Chemical, Biological, Pharmacological and Environmental Sciences. University of Messina. Italy

EDUCATION AND TRAINING

February 2024 to November 2024

II level University Master Course

Professional master title "Preparation techniques for antitubercular drugs and medical device". University of Messina, Department of Chemical, Biological, Pharmacological and Environmental Sciences, Messina, Italy

May 2023 to May 2024

National Scientific Habilitation (NSH or ASN)

Habilitation for permanent positions of Associate Professor in Italian Universities.

Awarded of "Abilitazione Scientifica Nazionale alle funzioni di professore universitario di Seconda Fascia nel Settore Concorsuale 05/G1 - FARMACOLOGIA, FARMACOLOGIA CLINICA E FARMACOGNOSIA"

From October 1st, 2017 to December 1st, 2020

Doctoral degree in Applied Biology and Experimental Medicine (BIO/14)

University of Messina, Department of Chemical, Biological, Pharmacological and Environmental Sciences, Messina, Italy

PhD Doctor in Applied biology and Experimental medicine

Title of thesis: "Modulation of inflammation, oxidative stress and neuroinflammation by a short chain fatty acid: protective effects of sodium propionate in in vitro and in vivo studies".

Final grade: Graduated with honours

Title of qualification awarded

PhD Doctor XXXIII cycle in Applied biology and Experimental medicine

Fulfillment of research and training projects based on the finding of pharmacological targets against inflammatory and neuroinflammatory disorders through *in vitro* studies, by using different cell lines and *in vivo* models of inflammation and neuroinflammation. Committing relevant time and effort to the projects. Ensuring all done and written work is of a high standard of elucidation. Presenting seminars in the academic, national, or international scenario

Supervisor Prof. Emanuela Esposito. Full Professor of Pharmacology. Unit of Pharmacology. Department of Chemical, Biological, Pharmacological and Environmental Sciences. University of Messina. Italy

Business or sector Scientific research activity: disciplinary scientific sector (BIO/14)

From October 1st, 2019 to November 26th, 2020

Visiting graduate student under the J-1 "Student Intern" category

Alzheimer's Center at Temple University (ACT). Department Lewis Katz School of Medicine, Medical Education and Research Building (MERB). Philadelphia, PA (USA)

Analyzing, running, and interpreting protein synthesis, transport, and regulation-evaluation of pharmacodynamic and pharmacokinetic of autophagy flux modulators in the perspective of Alzheimer's disease by using murine neuroblastoma cell line expressing human amyloid precursor peptide (APP) carrying the K670 Swedish mutation (APPSwe)

Supervisor Prof. Domenico Praticò. MD, Professor and Director Alzheimer's Center at Temple University (ACT). Department Lewis Katz School of Medicine, Medical Education and Research Building. Philadelphia, PA (USA)

Business or sector: Scientific research activity

November 2016

Biologist professional qualification

University of Messina and National Order of Biologists. Messina, Italy.

**From October 2014 to
October 2016**

MSc - Master's degree in Biology

Biologist professional qualification

University of Messina and National Order of Biologists, Messina, Italy.
Department of Chemical, Biological, Pharmacological and Environmental Sciences.
University of Messina. Italy

Title of qualification awarded

Doctor in Biology equivalent to Senior Biologist

Title of thesis: "Beneficial Effects of Co- Ultramicronized Palmitoylethanolamide/Luteolin in a Mouse Model of Autism and in a Case Report of Autism".

Final grade: 107/110

Supervisor(s)

-Prof. Emanuela Esposito. Full Professor of Pharmacology. Unit of Pharmacology.
Department of Chemical, Biological, Pharmacological and Environmental Sciences.
University of Messina. Italy

-Prof. Salvatore Cuzzocrea. Full Professor of Pharmacology, Unit of Pharmacology.
Department of Chemical, Biological, Pharmacological and Environmental Sciences.
University of Messina. Italy

**From October 2009 to
July 2014**

BSc – Bachelor's degree in Biological Sciences

Department of Chemical, Biological, Pharmacological and Environmental Sciences.
University of Messina. Italy

Title of qualification awarded

Doctor in Biological Sciences equivalent to Junior Biologist

Title of thesis: "Properties and biochemical functions of copper".

Final grade: 85/110

Supervisor

Prof.ssa Ersilia Bellocco, Full Professor of Biochemistry, Unit of Biochemistry.
Department of Chemical, Biological, Pharmacological and Environmental Sciences
University of Messina, Italy.

PERSONAL SKILLS

Mother tongue(s)

Italian

Other language(s)

English

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
Independent user	Independent user	Independent user	Independent user	Independent user

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
Common European Framework of Reference for Languages

Communication skills

▫ Excellent communication skills gained through my experience resulting from the years of university studies (at the University of Messina) and the years as a young scientist (Pharmacological Lab at the University of Messina). Strong oral communications skills through poster presentations, and teaching, learning to feel comfortable in front of large and various audiences. Well-developed ability for preparing an adequate presentation style compared to the level and context of the event.

**Organisational / managerial
skills**

▫ Excellent organizational ability personally gained through 14 months of experience abroad in the United States of America (at the Alzheimer's Center, Temple University, Philadelphia, PA). Excellent planning group work skills, time management, and an aptitude for avoiding risks gained during the whole working period (at the University of Messina and at the Alzheimer's Center, Temple University, Philadelphia).

Job-related skills

- Excellent control of performing murine models of inflammation and neuroinflammation such as a model of Carrageenan (CAR)-induced rat paw, a model of colitis DNBS-induced, spinal cord injury (SCI), traumatic brain injury, Parkinson's disease (PD), Alzheimer's diseases (AD), and tumor xenograft models of GBM and hepatocellular carcinoma, from designing experimental project to the obtained data elaboration.
- Excellent execution control of molecular biology techniques (nucleic acids and proteins extraction (soluble, insoluble, nuclear, and cytosolic fractions) from cells and tissues, PCR, Agarose and polyacrylamide gel electrophoresis, Western Blot, Comet assay, Flow cytometry, and ELISA kit, gel extraction kit, PCR purification kit execution).
- Excellent execution of the following analysis: histological, immunohistochemical, immunofluorescence microscopy, immunocytochemical.
- Excellent control of conservation and complete medium preparation of different cell cultures (neurons, macrophages, fibroblast, primary culture, cancer cell lines, induced pluripotent stem cells, neuroblastoma cell lines, brain microvascular endothelial cells).
- Excellent control of performing in vitro models of Alzheimer's disease, Parkinson's disease, inflammation LPS-induced, oxidative stress H₂O₂-induced, and gene silencing by RNA interference.
- Excellent ability of using conventional and fluorescence microscope.
- Demonstrated and validated ability of samples and solutions preparations.

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Independent user	Independent user	Independent user	Independent user	Proficient user

Other skills

- Good command of data analysing, elaborating, and writing programs as Microsoft Office TM, GraphPad, Image J and Endnote
- Good command of Mac and Windows operating systems
- Good use of software for scientific illustration
- Excellent understanding and using of scientific site as PubMed and database

Driving licence

- B

TEACHING ACTIVITIES

2020-2021	Teaching support for PhD Course in Applied Biology and experimental medicine, Department of Chemical, Biological, Pharmacological and Environmental Sciences. University of Messina. Italy.
2022 to date	Teaching support for Course Farmacologia con approfondimenti di neurofarmacologia e tossicologia molecolare, Department of Chemical, Biological, Pharmacological and Environmental Sciences. University of Messina. Italy.
2022 to date	Teaching support for Course Farmaconcologia con molecole bioattive di origine vegetale, Department of Chemical, Biological, Pharmacological and Environmental Sciences. University of Messina. Italy.
2022 to date	Teaching support for Course Elementi di Farmacologia, Department of Chemical, Biological, Pharmacological and Environmental Sciences. University of Messina. Italy.
2022 to date	Teaching support for Course Farmacologia e tossicologia delle sostanze marine, Department of Chemical, Biological, Pharmacological and Environmental Sciences. University of Messina. Italy.
2022 to date	Teaching support for Course Tossicologia degli alimenti, Department of Chemical, Biological, Pharmacological and Environmental Sciences. University of Messina. Italy.
2022 to date	Member of the examination commission Course Elementi di Farmacologia, Department of Chemical, Biological, Pharmacological and Environmental Sciences. University of Messina. Italy.
2022 to date	Member of the examination commission Course Tossicologia degli alimenti, Department of Chemical, Biological, Pharmacological and Environmental Sciences. University of Messina. Italy.
2023 to date	Course owner Applied marine pharmacology and toxicology, Department of Chemical, Biological, Pharmacological and Environmental Sciences. University of Messina. Italy.
2023 to date	Course owner of Pharmacology in Scienze cliniche di interesse ostetrico-ginecologico, Department of Chemical, Biological, Pharmacological and Environmental Sciences. University of Messina. Italy.
2024 to date	Course owner Marine pharmacology and toxicology, Department of Chemical, Biological, Pharmacological and Environmental Sciences. University of Messina. Italy.

List of scientific publications

- 1- **Filippone A**, Casili G, Lanza M, Campolo M, Paterniti I, Cucinotta L, Basilotta R, Ardizzone A, Esposito E.
A Topical Combination of Xyloglucan and Pea Protein Effectively Manages Oral Ulcers In Vivo. J Oral Pathol Med. 2025 Oct;54(9):790-797. doi: 10.1111/jop.70029.
- 2- Basilotta R, Casili G, Mannino D, **Filippone A**, Lanza M, Capra AP, Giosa D, Forte S, Colarossi L, Sciacca D, Esposito E, Paterniti I.
Benzyl isothiocyanate suppresses development of thyroid carcinoma by regulating both autophagy and apoptosis pathway. iScience. 2024 Aug 23;27(10):110796. doi: 10.1016/j.isci.2024.110796

3. Casein Kinase 2 Inhibitor, CX-4945, Induces Apoptosis and Restores Blood-Brain Barrier Homeostasis in In Vitro and In Vivo Models of Glioblastoma.

Bova V, Mannino D, Salako AE, Esposito E, **Filippone A***, Scuderi SA. Cancers (Basel). 2024 Nov 24;16(23):3936. doi: 10.3390/cancers16233936.

IF 4.5

4. CK and LRRK2 Involvement in Neurodegenerative Diseases.

Bova V, Mannino D, Capra AP, Lanza M, Palermo N, **Filippone A***, Esposito E. Int J Mol Sci. 2024 Oct 30;25(21):11661. doi: 10.3390/ijms252111661.

IF 4.9

5. Rebalance of mitophagy by inhibiting LRRK2 improves colon alterations in an MPTP in vivo model.

Filippone A, Mannino D, Cucinotta L, Calapai F, Crupi L, Paterniti I, and Esposito E. iScience, 2024, 110980, ISSN 2589-0042, <https://doi.org/10.1016/j.isci.2024.110980>.

IF 4.6

6. EZH2 Inhibition to Counteract Oral Cancer Progression through Wnt/ β -Catenin Pathway Modulation.

Campolo M#, Scuderi SA#, **Filippone A**, Bova V, Lombardo SP, Colarossi L, Sava S, Capra AP, De Gaetano F, Portelli M, et al. Pharmaceuticals. 2024; 17(8):1102. doi.org/10.3390/ph17081102

IF 4.3

7. The Protective Role of Troxerutin (Trox) in Counteracting Anaplastic Thyroid Carcinoma (ATC) Progression.

Bova V, Basilotta R, Casili G, Lanza M, **Filippone A**, Campolo M, Capra AP, Vitale G, Chisari G, Colarossi C, et al. Biomedicines. 2024; 12(8):1755. doi.org/10.3390/biomedicines12081755.

IF 3.9

8. The role of autophagy in Parkinson's disease: a gender difference overview. Frontiers in Pharmacology

Cucinotta L#, Mannino D#, **Filippone A**, Romano A , Esposito E , Paterniti I. 15,2024, doi=10.3389/fphar.2024.1408152.

IF 5.6

9. Efficacy of an oral suspension containing xyloglucan and pea proteins on a murine model of gastroesophageal reflux disease.

Ardizzone A., Mannino D., Casili G., Campolo M., Lanza M., **Filippone A.**, Repici A., Bova V., Capra AP., Cuzzocrea S., Esposito E. Phytotherapy Research. 1–13. doi.org/10.1002/ptr.8133

IF 7.2

10. Interleukin-21 Influences Glioblastoma Course: Biological Mechanisms and Therapeutic Potential.

Repici A, Ardizzone A, **Filippone A**, Colarossi C, Mare M, Raciti G, Mannino D, Cuzzocrea S, Paterniti I, Esposito E. Cells. 2023 Sep 15;12(18):2284. doi: 10.3390/cells12182284.

IF 6

11. bFGF-like Activity Supported Tissue Regeneration, Modulated Neuroinflammation, and Rebalanced Ca²⁺ Homeostasis following Spinal Cord Injury

Ardizzone A, Bova V, Casili G, **Filippone A**, Lanza M, Repici A, Esposito E, Paterniti I. International

Journal of Molecular Sciences. 2023; 24(19):14654. <https://doi.org/10.3390/ijms241914654>
IF 5.6

12. Neuroprotective effects of GSK-343 in an in vivo model of MPTP-induced nigrostriatal degeneration.

Mannino D, Scuderi SA, Casili G, Bova V, Cucinotta L, Lanza M, **Filippone A**, Esposito E, Paterniti I. J Neuroinflammation. 2023 Jun 30;20(1):155. doi: 10.1186/s12974-023-02842-6.

IF 9.3

13. The transcription factor Nrf2 mediates the effects of Antrodia camphorata extract on neuropathological changes in a mouse model of Parkinson's disease.

Lanza, M.; Cucinotta, L.; Casili, G.; **Filippone, A.**; Basilotta, R.; Capra, A.P.; Campolo, M.; Paterniti, I.; Cuzzocrea, S.; Esposito, E. Int. J. Mol. Sci. 2023, 24, 9250. <https://doi.org/10.3390/ijms24119250>.

IF 5.6

14. Therapeutic Potential of BAY-117082, a Selective NLRP3 Inflammasome Inhibitor, on Metastatic Evolution in Human Oral Squamous Cell Carcinoma (OSCC).

Casili, G.; Scuderi, S.A.; Lanza, M.; **Filippone, A.**; Mannino, D.; Giuffrida, R.; Colarossi, C.; Mare, M.; Capra, A.P.; De Gaetano, F.; Portelli, M.; Militi, A.; Cuzzocrea, S.; Paterniti, I.; Esposito, E. Cancers 2023, 15, 2796. <https://doi.org/10.3390/cancers15102796>.

IF 5.2

15. New Insights into the Mechanism of Ulva pertusa on Colitis in Mice: Modulation of the Pain and Immune System

Ardizzone, A.; Mannino, D.; Capra, A.P.; Repici, A.; **Filippone, A.**; Esposito, E.; Campolo, M. Mar. Drugs 2023, 21, 298. <https://doi.org/10.3390/md21050298>

IF 5.4

16. Inhibition of LRRK2 Attenuates Depression-Related Symptoms in Mice with Moderate Traumatic Brain Injury

Filippone, A.; Cucinotta, L.; Bova, V.; Lanza, M.; Casili, G.; Paterniti, I.; Campolo, M.; Cuzzocrea, S.; Esposito, E.. Cells 2023, 12, 1040. <https://doi.org/10.3390/cells12071040>. IF 7.666

17. Recent Emerging Immunological Treatments for Primary Brain Tumors: Focus on Chemokine-Targeting Immunotherapies.

Ardizzone, A.#; Basilotta, R.#; **Filippone, A.**; Crupi, L.; Lanza, M.; Lombardo, S.P.; Colarossi, C.; Sciacca, D.; Cuzzocrea, S.; Esposito, E.; Campolo, M. Cells 2023, 12, 841. <https://doi.org/10.3390/cells12060841>.

18. Effect of a combination of pea protein, grape seed extract and lactic acid in an in vivo model of bacterial vaginosis

Lanza, M., Scuderi, S.A., Capra, A.P., Casili G., **Filippone A.**, Campolo M., Cuzzocrea S., Esposito E., Paterniti I. Sci Rep 13, 2849 (2023). <https://doi.org/10.1038/s41598-023-28957-7>.

IF 4.966

19. Evaluation of the Efficacy of Xyloglucan, Pea Protein and Opuntia ficus-indica Extract in a Preclinical Model of Psoriasis.

Filippone, A.#; Casili, G.#; Lanza, M.; Scuderi, S.A.; Ardizzone, A.; Capra, A.P.; Paterniti, I.; Campolo, M.; Cuzzocrea, S.; Esposito, E. Int. J. Mol. Sci. 2023, 24, 3122.

<https://doi.org/10.3390/ijms24043122>
IF 6.208

20. Therapeutic Potential of Dimethyl Fumarate in Counteract Oral Squamous Cell Carcinoma Progression by Modulating Apoptosis, Oxidative Stress and Epithelial–Mesenchymal Transition Basilotta R#, Lanza M#, **Filippone A**, Casili C, Mannino D, De Gaetano F, Chisari G, Colarossi L, Motta G, Campolo M, Cuzzocrea S, Paterniti I, Esposito E. (2023).. INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, vol. 24, p. 2777-2789, ISSN: 1422-0067, doi: 10.3390/ijms24032777
IF 6.208

21. A New Approach for the Treatment of Recurrent Vulvovaginal Candidiasis with a Combination of Pea Protein, Grape Seed Extract, and Lactic Acid Assessed In Vivo. Paterniti I#, Casili G#, **Filippone A**, Lanza M, Ardizzone A, Capra AP, Campolo M, Esposito E. Journal of Fungi. 2022; 8(12):1251. <https://doi.org/10.3390/jof8121251>.
IF 4.7

22. The Pivotal Role of Protein Phosphatase 2A (PP2A) in Brain Tumors Cucinotta, L#.; **Filippone, A#**; Casili, G.; Lanza, M.; Bova, V.; Capra, A.P.; Giuffrida, R.; Colarossi, C.; Sciacca, D.; Paterniti, I.; Cuzzocrea, S.; Campolo, M.; Esposito, E.. Int. J. Mol. Sci. 2022, 23, 15717. <https://doi.org/10.3390/ijms232415717>
IF 6.208

23. Protein Kinase Inhibitors as a New Target for Immune System Modulation and Brain Cancer Management **Filippone, A. #**; Mannino, D. #; Casili, G.; Lanza, M.; Paterniti, I.; Cuzzocrea, S.; Capra, A.P.; Colarossi, L.; Giuffrida, D.; Lombardo, S.P.; Esposito, E. Int. J. Mol. Sci. 2022, 23, 15693. <https://doi.org/10.3390/ijms232415693>.
IF 6.208

24. Overview on Common Genes Involved in the Onset of Glioma and on the Role of Migraine as Risk Factor: Predictive Biomarkers or Therapeutic Targets? Casili, G.; Lanza, M.; **Filippone, A.**; Caffò, M.; Paterniti, I.; Campolo, M.; Colarossi, L.; Sciacca, D.; Lombardo, S.P.; Cuzzocrea, S.; Esposito, E. J. Pers. Med. 2022, 12, 1969. <https://doi.org/10.3390/jpm12121969>.
IF 3.508

25. A Combination of Xyloglucan, Pea Protein and Chia Seed Ameliorates Intestinal Barrier Integrity and Mucosa Functionality in a Rat Model of Constipation-Predominant Irritable Bowel Syndrome. **Filippone, A.**; Ardizzone, A.; Bova, V.; Lanza, M.; Casili, G.; Cuzzocrea, S.; Esposito, E.; Campolo, M.; Paterniti, I. J. Clin. Med. 2022, 11, 7073. <https://doi.org/10.3390/jcm11237073>.
IF 4.964

26. GSK343, an Inhibitor of Enhancer of Zeste Homolog 2, Reduces Glioblastoma Progression through Inflammatory Process Modulation: Focus on Canonical and Non-Canonical NF-κB/IκBα Pathways. Scuderi, S.A.; **Filippone, A.**; Basilotta, R.; Mannino, D.; Casili, G.; Capra, A.P.; Chisari, G.; Colarossi, L.; Sava, S.; Campolo, M.; Esposito, E.; Paterniti, I. Int. J. Mol. Sci. 2022, 23, 13915. <https://doi.org/10.3390/ijms232213915>.
IF 6.208

27. BAY-117082-driven NLRP3 inflammasome inhibition resolves nitro-glycerine (NTG) neuronal damage in in vivo model of migraine.
Filippone A., Scuderi SA., Basilotta R., Lanza M., Casili G., Bova V., Paterniti I., Esposito E. *Biomed Pharmacother.* 2022 Oct 15;156:113851. doi: 10.1016/j.biopha.2022.113851.
IF 7.419
28. Dimethyl Fumarate (DMF) alleviated post-operative (PO) pain through the N-methyl-D-aspartate (NMDA) receptors.
Casili G., Lanza M., **Filippone A.**, Cucinotta L., Paterniti I., Repici A., Capra AP., Cuzzocrea S., Esposito E., Campolo M. *Antioxidants* 2022, 11, 1774. 10.3390/antiox11091774
IF 7.675
29. Adenosine targeting as a new strategy to decrease glioblastoma Aggressiveness.
Bova V. #, **Filippone A.** #, Casili G., Lanza M., Campolo M., Capra AP., Repici A., Crupi L., Motta G., Colarossi C., Chisari G., Cuzzocrea S., Esposito E., Paterniti I. *Cancers* 2022, 14(16), 4032; doi.org/10.3390/cancers14164032.
IF 6.575
30. Inhibition by PF06447475 Antagonist Modulates Early Neuronal Damage after Spinal Cord Trauma.
Filippone, A.; Mannino, D.; Cucinotta, L.; Paterniti, I.; Esposito, E.; Campolo, M. *LRRK2. Antioxidants* 2022, 11, 1634. <https://doi.org/10.3390/antiox11091634>.
IF 7.675
31. Trehalose-carnosine prevents the effects of spinal cord injury through regulating acute inflammation and zinc(II) ion homeostasis.
Paterniti I#, **Filippone A#**, Naletova I, Greco V, Sciuto S, Esposito E, Cuzzocrea S, and Rizzarelli E. *Cell Mol Neurobio*, 2022. doi 10.1007/s10571-022-01273-w.
IF 4.231
32. The contribution of altered neuronal autophagy to neurodegeneration.
Filippone A, Esposito E, Mannino D, Lyssenko N, Praticò D. *Pharmacology & Therapeutics*, Volume 238, 2022, <https://doi.org/10.1016/j.pharmthera.2022.108178>.
IF 13.4
33. Ulva pertusa, a Marine Green Alga, Attenuates DNBS-Induced Colitis Damage via NF-κB/Nrf2/SIRT1 Signaling Pathways.
Ardizzone A#, **Filippone A#**, Mannino D, Scuderi SA, Casili G, Lanza M, Cucinotta L, Campolo M, Esposito E. *Journal of Clinical Medicine.* 2022; 11(15):4301. <https://doi.org/10.3390/jcm11154301>
IF 4.964 (co-author first name)
34. SUN11602, a bFGF mimetic, modulated neuroinflammation, apoptosis and calcium-binding proteins in an in vivo model of MPTP-induced nigrostriatal degeneration.
Ardizzone A, Bova V, Casili G, **Filippone A**, Campolo M, Lanza M, Esposito E, Paterniti I. *J Neuroinflammation.* 2022 May 7;19(1):107. doi: 10.1186/s12974-022-02457-3.
IF 8.322
35. Supplementation with SCFAs Re-Establishes Microbiota Composition and Attenuates Hyperalgesia and Pain in a Mouse Model of NTG-Induced Migraine.
Lanza, M.; **Filippone, A.**; Casili, G.; Giuffrè, L.; Scuderi, S.A.; Paterniti, I.; Campolo, M.; Cuzzocrea, S.; Esposito, E. *Int. J. Mol. Sci.* 2022, 23, 4847. <https://doi.org/10.3390/ijms23094847>.

IF 6.208

36. Evaluation of a Gel Containing a Propionibacterium Extract in an In Vivo Model of Wound Healing.

M., Campolo, Gallo G., Roviello F., Ardizzone A., La T. M., **Filippone A.**, Lanza M., Cuzzocrea S., Siroli L., and Esposito E. 2022. International Journal of Molecular Sciences 23, no. 9: 4708. <https://doi.org/10.3390/ijms23094708>

IF 6.208

37. Neurofibromatosis: New Clinical Challenges in the Era of COVID-19

Ardizzone, A.; Capra, A.P.; Campolo, M.; **Filippone, A.**; Esposito, E.; Briuglia, S.. Biomedicines 2022, 10, 940. <https://doi.org/10.3390/biomedicines10050940>.

IF 4.757

38. Effect of Melatonin on Psoriatic Phenotype in Human Reconstructed Skin Model.

Scuderi, S.A.; Cucinotta, L.; **Filippone, A.**; Lanza, M.; Campolo, M.; Paterniti, I.; Esposito, E. Biomedicines 2022, 10, 752. <https://doi.org/10.3390/biomedicines10040752>.

IF 4.757

39. Beneficial effect of KYP-2047, a propyl-oligopeptidase inhibitor, on oral squamous cell carcinoma.

Scuderi SA, Casili G, **Filippone A**, Lanza M, Basilotta R, Giuffrida R, Munaò S, Colarossi L, Capra AP, Esposito E, Paterniti I. Oncotarget. 2021 Dec 7;12(25):2459-2473. doi: 10.18632/oncotarget.28147. PMID: 34917264; PMCID: PMC8664393.

IF 5.168

40. Dysregulation of the retromer complex in brain endothelial cells results in accumulation of phosphorylated tau.

Filippone A, Smith T and Praticò D. Journal of Inflammation Research. 2021 Volume 2021:14 Pages 7455—7465. doi.org/10.2147/JIR.S342096.

IF 6.532

41. PD1/PD-L1 immune checkpoint as a potential target for preventing brain tumor progression. **Filippone A**, Lanza M, Mannino D, Raciti G, Colarossi C, Sciacca D, Cuzzocrea S, and Paterniti I. Cancer, Immunology, Immunotherapy. 2021, doi10.1007/s00262-021-03130-z.

IF 6.630

42. The Protective Role of Prolyl Oligopeptidase (POP) Inhibition in Kidney Injury Induced by Renal Ischemia–Reperfusion.

Casili, G.; Ardizzone, A.; Basilotta, R.; Lanza, M.; **Filippone, A.**; Paterniti, I.; Esposito, E.; Campolo, M. Int. J. Mol. Sci. 2021, 22, 11886. <https://doi.org/10.3390/ijms222111886>.

IF 6.208

43. NLRP3 inflammasome inhibitor, BAY-117082, reduces Oral Squamous Cell Carcinoma progression.

Scuderi SA, Casili G, Basilotta R, Lanza M, **Filippone A**, Raciti G, Puliafito I, Colarossi L, Esposito E, Paterniti I. Int. J. Mol. Sci. 2021, 22(20), 11108; <https://doi.org/10.3390/ijms222011108>.

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44. SCFAs treatment alleviates pathological signs of migraine and related intestinal alterations in a mouse model of NTG-induced migraine.
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The authors contributed equally

* Corresponding author

Alessia Filippone is author of 73 scientific publications
Number of citations 1257
h-index score 21

National and International Congress Participation(s)

- **“XXVI Congresso Nazionale e Corso residenziale dell’Associazione Italiana di Neuro-oncologia”. 23-25 Novembre 2024, Messina.**
“Casein kinase 2 inhibitor, CX-4945, induces apoptosis and restore blood brain barrier homeostasis altered in glioblastoma”.
Poster presenter
- **“From phagocytosis discovery to today: new insights in inflammation”. 21-22 Settembre 2023, Messina.**
“The pharmacological inhibition of casein kinase 2 induces apoptosis in an in vitro model of glioblastoma”.
Poster presenter
- **“1 Congresso intersocietà sui prodotti vegetali per la salute: Il ruolo delle piante medicinali nella medicina moderna”. 15-17 Giugno 2023, Padova.**
“Immunomodulatory properties of Ulva pertusa extract in a mouse model of DNBS-induced colitis”.
Speaker.
- **“III Edition More than neurons”. Changing the paradigm for novel therapeutic avenues”, December 15-17 2022, Torino.**
“Positive feedback of apoptosis and autophagy pathways by sodium propionate to control glioblastoma progression: correlating in vitro and in vivo observations”.
Poster presenter

- **“41 Congresso Nazionale SIF, Il valore scientifico e l’uso appropriato del farmaco”, November 16-19th 2022**
Rome
“Positive feedback of apoptosis and autophagy pathways by sodium propionate to control glioblastoma progression: correlating in vitro and in vivo observations”.
Poster presenter
- **“4th International Webinar on Cancer Research and Therapy” August 25th and 26th 2022**
Online Conference
Speaker
“Positive feedback of apoptosis and autophagy pathways by sodium propionate to control glioblastoma progression: correlating in vitro and in vivo observations”.
- **“15th World Congress on Inflammation (WCI2022)”.**
Rome, June 5-8th, 2022
Oral presentation presenter
“LRRK-2 INHIBITION BY PF06447475 TREATMENT REDUCES NEURONAL DAMAGE AND IMMUNE RESPONSE AFTER SPINAL CORD TRAUMA”
- **“Global Summit on Gastroenterology and Hepatology (GSGH2022)”.**
Virtual event, March 17th, 2022
Invited Speaker
“Inhibition of Prolyl Oligopeptidase Prevents Consequences of Reperfusion Following Intestinal Ischemia”.
- **“1st Joint meeting on Natural Products Pharmacology. SIF - SIPHAR – IMGNPP.**
Naples, 24th – 26th February 2022
Oral presentation presenter.
“Modulation of intestinal inflammation and oxidative stress by Ulva pertusa extract treatment in a dinitrobenzene sulfonic acid (DNBS) colitis mouse model”.
- **“2nd International Conference on Neuroprotection by Drugs, Nutraceuticals, and Physical Activity”.**
Virtual edition. 9-10th December 2021.
Oral presentation presenter.
“LRRK-2 Inhibition by PF06447475 Treatment Reduces Neuronal Damage and Immune Response After Spinal Cord Trauma”.
- **“RECENTI SVILUPPI IN IMMUNOFARMACOLOGIA 1^o MEETING DEL GDL IMMUNOFARMACOLOGIA DELLA SIF”. November 24- 26th 2021. Perugia, Italy.**
Oral presentation presenter.
“LRRK-2 Inhibition by PF06447475 Treatment Reduces Neuronal Damage and Immune Response After Spinal Cord Trauma”.
- **4th International Webinar on Physical Health 2021. November 12th-13th 2021.**
Online meeting.
Invited Speaker. Plenary speakers’ session.
“SCFAs treatment alleviates pathological signs of migraine and related intestinal alterations in a mouse model of NTG-induced migraine”. Filippone A.
- **Alzheimer’s Association International Conference (AAIC) Neuroscience Next. October 12th-13th 2021.**
Virtual conference.
Participant.
- **Alzheimer’s Association International Conference 2021 (AAIC). July 26th-30th, 2021. Colorado Convention Center, Denver, Colorado, CO (USA)**
“VPS35 downregulation alters degradation pathways in neuronal cells”.
Filippone A, Praticò D and Esposito E.
Poster Presenter.

- **XXIII SIF Seminar on Pharmacology for PhD Students, Fellows, Post Doc and Specialist Trainees. March 8th 2021, Digital edition.**
 “Inhibition of inflammasome activation restore the pathological signs in a rat model of diarrhea- predominant irritable bowel syndrome (D-IBS)”
 Filippone A, Lanza M, Casili G, Campolo M, Paterniti I, Ardizzone A, Scuderi SA, Cuzzocrea S, and Esposito E.
 Oral presentation Presenter.
- **Alzheimer's Association International Conference 2020 (AAIC). July 27th-31, 2020.**
 Virtual Event.
 Participant.
- **Experimental Biology 2019, 6th-9th April 2019 Orlando, FL, USA**
 Poster presenter
 “TAK1 inhibitor, as a potential sensitizer for chemotherapy in glioblastoma”
 Filippone A, Campolo M, Lanza M, Casili G, Paterniti I, Caffo M, Cardali SM, Cuzzocrea S, Esposito E.
- **Convegno Monotematico SIF: Le basi farmacologiche dei nutraceutici, March 29-30 2019, Naples, Italy**
 “Sodium propionate protects from inflammation and ROS stress”
 Poster presenter
A.Filippone, M. Campolo, G. Casili, M. Lanza, I. Paterniti, S. Cuzzocrea, E. Esposito.
- **XXI SIF Seminar on Pharmacology for PhD Students, Fellows, Post Doc and Specialist Trainees, September 19-22, 2018, Bresso, Italy**
 “The protective effect of sodium propionate: anti-oxidant, anti-inflammatory and neuroprotective properties”
A.Filippone, M. Campolo, G.Casili, M.Lanza, I.Paterniti, S. Cuzzocrea, E. Esposito.
- **XXXVIII SIF National Congress, October 25-28, 2017, Rimini, Italy**
 “Absence of TLR4 reduces neuroinflammation in an experimental in vivo model of Parkinson's disease”
Filippone, M. Campolo, I.Paterniti, G.Casili, M.Lanza, E. Esposito, S. Cuzzocrea

Meeting(s)/course participation

- Training organized by OPBA/UNIME: “La Protezione degli animali utilizzati a fini scientifici: aspetti normativi ed etici”. Messina, March 8-9 2023.
- Training organized by Italian Society of Pharmacology (SIF): “Master class leadership: I farmacologi 2.0” Messina, June 13-15 2023.
- Participation at Attune NxT training “Flow cytometry (FACS Analysis)”
 October 20 – 22th, 2021, Messina.
- Participation at Webinar “UE 745/2017 regulation”
 July 9th, 2021
- Participation at Webinar “UE 745/2017 regulation”
 June 15th, 2021
- Participation at “Formazione regolatoria specifica per I dispositive medici”
 September 24th, 2021
- Participation at Webinar “Pharmacognosy of yesterday, today and tomorrow”
 Zoom event, June 18th, 2021
- Participation at Webinar “UE 745/2017 regulation”
 Zoom event, June 15th, 2021
- “2nd Scientific Meeting” of PhD Course in “Applied Biology and Experimental Medicine”.

Microsoft Teams, May 26th and 27th, 2021.

Attendance as relator in:

- “Dysregulation of endosomal protein sorting system in neurodegenerative disorders: focus on Alzheimer’s disease”
- “Dysregulation of endosomal protein sorting system in neurodegenerative disorders: focus on Parkinson’s disease”.

- “1st Scientific Meeting” of PhD Course in “Applied Biology and Experimental Medicine”.

Microsoft Teams, June 29, 2020.

Attendance as relator in “Role of short chain fatty acids in health and inflammatory disease”

Award(s)

- BORSA DI RICERCA SIF PER BREVI PERIODI ALL'ESTERO. July 22th, 2019. From Italian Society of Pharmacology (SIF).
- POST-DOCTORAL FELLOWSHIP – ANNO 2023, FONDAZIONE UMBERTO VERONESI. PROJECT TITLE: “VPS35/retromer Complex and Endosomal System Involvement in the Progression of Glioblastoma Multiforme”.

Editor achievement

- Guest Editor “Molecular Pathways in Neurodegenerative Pathologies” in MDPI, *International Journal of Molecular Sciences*,
- Guest Editor “Novel Discoveries in Oncology” in MDPI (*Biomolecules, Cancers, Cells International Journal of Molecular Sciences, J of Clinical Medicine, J of Molecular Pathology, Organoids Journals*);
- Guest Editor “Emerging anti-cancer and cellular targets and their mechanism(s) of action as new tools for therapeutics approaches” in MDPI, *Pharmaceutics*.

Membership

From October 2017 to date member of Italian Society of Pharmacology (SIF);

From April 2021 to date member of the “International Journal of Molecular Sciences (IJMS)” Reviewer Board.

D.P.R. n. 445 del 28/12/2000 e ss.mm.ii.

Messina, October 2025

Alessia Filippone