

Erica Quagliarini

WORK EXPERIENCE

[11/2021 – Current] Post-Doctoral researcher

prof. Giulio Caracciolo, Department of Molecular Medicine, Sapienza University of Rome

[10/2018 – 11/2021] PhD student

prof. Anna Laura Capriotti, Department of Chemistry, Sapienza University of Rome

[01/2018 – 06/2018] Master Internship

University of Zaragoza, Instituto de Nanociencia de Aragon, Zaragoza, Spain

[01/10/2019 – 01/12/2021] Tutoring Camplus-Roma, Rome, Italy

[20/10/2020 – 21/11/2021] Science and Mathematics teacher secondary school Istituto comprensivo Paolo Stefanelli

EDUCATION AND TRAINING

[10/2018 – 11/2021] Ph.D. in Chemical Science

Sapienza, University of Rome

[01/2016 – 09/2018] Master's degree in Organic Chemistry

Alma Mater Studiorum, University of Bologna, Bologna, Italy

[10/2011 – 05/2015] Bachelor's degree in Chemistry

Sapienza, University of Rome, Rome, Italy

LANGUAGE SKILLS

Mother tongue(s): Italian

Other language(s): English

Listening B2 Reading B2 Writing B2

Spoken production B2 Spoken interaction B2

DIGITAL SKILLS

Microsoft Excel, MathLab, OriginPro 85, Fiji-ImageJ

PUBLICATIONS

Number of publications= 28

h-index (Scopus)= 12

co author

1. Di Santo, R. et al., *Applied Physics Letters*, 2019, 114.23: 233701.
2. Quagliarini, E. et al., *Pharmaceutics*, 2020, 12.2: 113.
3. La Barbera, G. et al., *Talanta*, 2020, 209: 120487.
4. Quagliarini E. et al., *Sensors International*, 2020, 1: 100025.
5. Di Santo, R. et al., *Frontiers in bioengineering and biotechnology*, 2020, 8: 491.
6. Quagliarini, E. et al., *Nanomaterials*, 2020, 10.8: 1482.
7. Perini, G et al., *Pharmaceutics*, 2021, 13.3: 378.
8. Di Santo, R. et al., *Biomaterials Science*, 2021. 4671-4678
9. Quagliarini, E. et al., *Pharmaceutics*, 2021 13(8), 1292.
10. Quagliarini, E. et al., *Nanomaterials*, 2022 12(9), 1397
11. Digiaco, L. et al., *Cancers*, 2021 13(20), 5155.
12. Cui, Lishan, et al., *Nanoscale Advances* (2022).
13. Quagliarini, E. et al., *Nanomaterials* 12.9 (2022): 1397.
14. Digiaco, Luca, et al., *Nanomaterials* 12.14 (2022): 2376.
15. Cui, L., et al., *Pharmaceutics* 14.8 (2023): 1698.
16. Caputo, D., et al., *International Journal of Molecular Sciences* (2023) 23, 10591
17. Caputo, D, et al., *Cancers* 14.19 (2022): 4658.
18. Quagliarini, E., et al., *Nano Today* 47 (2022): 101657.



19. **Quagliarini, E.**, et al. *ACS Applied Materials & Interfaces* (2022).
20. Giulimondi, Francesca, et al., *Particle & Particle Systems Characterization* 40.2 (2023): 2200169.
21. **Quagliarini, E.**, et al., *Cancer Nanotechnology* 14.1 (2023): 1-12.
22. **Caputo, Damiano, et al.** *International Journal of Surgery* 109.10 (2023): 2934-2940.
23. Digiacomo, Luca, et al. *Cancers* 15.11 (2023): 2983.
24. **Quagliarini, E.**, et al. *Journal of Nanobiotechnology* 21.1 (2023): 267.
25. Digiacomo, Luca, et al. *Nanomedicine: Nanotechnology, Biology and Medicine* 53 (2023): 102697.
26. Zaccagnini, Federica, et al. *Small* (2024): 2400531.
27. Cui, Lishan, et al. *ACS omega*, 2024, 9.32: 34624-34635.
28. Renzi, Serena, et al. *Nature Communications*, 2024, 15.1: 9119.
29. Moulton, Chantalle, et al. *Frontiers in Immunology* 15 (2024): 1447567.
30. **Quagliarini, E.**, et al. *Advanced Materials Interfaces* (2024): 2400560.
31. Digiacomo, Luca, et al. *Nanoscale* (2025).

CONFERENCES AND SEMINARS

- [24/01/2025-25/01/2025] International symposium of the CRC1066, Nanomaterials for tumor immunotherapy
Mainz, Germany, Oral
- [24/01/2025-25/01/2025] Inter36th AICC international meeting
Rome, Italy, Invited speaker
- [01/07/2024-05/07/2024] International school of nanomedicine: 7th course, challenges and prospects for nanomedicine for brain targeting
Erice, Italy, Oral
- [24/06/2022-28/06/2024] SYNC2024 First Symposium for YouNg Chemists: Innovation and Sustainability
Rome, Italy, Oral
- [29/11/2023-30/11/2023] Focus on 2d materials for regenerative medicine
Rome, Italy, Oral
- [18/09/2023-22/09/2023] NanoInnovation 2023
Rome, Italy, Ora
- [28/06/2023-30/06/2023] Nanotech France 2023
Paris, France, Poster
- [04/07/2022-07/07/2022] XLVIII National Congress of Physical Chemistry, Physical Chemistry and the challenges of ecological transition. Genova, Italy, Oral
- [13/04/2022-15/04/2022] 16th EUROPEAN SYMPOSIUM ON CONTROLLED DRUG DELIVERY
Egmond and Zee, The Netherlands, Poster
- [15/12/2021] PNI TeaTime webinar series of Precision Nanosystem
online event, Oral
- [23/09/2019-27/09/2019] Graphene Week 2019
Marina Congress, Helsinki, Finland, Poster
- [02/05/2019-03/05/2019] Workshop Nanomedicine 2019
Università la Bicocca, Milan, Italy, Poster

PATENT APPLICATIONS

- [2020] Test sierologico per coadiuvare la diagnosi e il monitoraggio del glioblastoma multiforme. p.number P3666IT00
- [2022] Nanoparticelle lipidiche multicomponenti ad elevata fusogenicità cellulare per la veicolazione di acidi nucleici e relativo processo di preparazione. p.number P3666IT00

PROJECTS

- [2022-December 2023] Participant in the research activities of the project: "Nanotechnology-based rapid in vitro diagnostic test for pancreatic cancer" funded by the AIRC Foundation
Project Code: Id. 24521; Project manager: Prof. Daniela Pozzi

[Current] Participant in the research activities of the HORIZON-EIC-2023-PATHFINDER project: "BIOPHOTONIC NANOPARTICLE-ENABLED LASER BLOOD TEST FOR EARLY DETECTION OF PANCREATIC CANCER (LASERBLOOD)" funded by the European Innovation Council (EIC)
Grant agreement ID: 101130740; Coordinator: FLIM LABS SRL

HONOURS AND AWARDS

[2020] Progetto Avvio alla Ricerca, Tipo 1,
Sapienza, University of Rome
Project title: 'Personalized Graphene Oxide-Protein Corona for early stage cancer detection', Number of protocol: AR120172B93937F3

[2022] Progetto Avvio alla Ricerca, Tipo 2,
Sapienza, University of Rome
Project title: 'Development of an in vitro diagnostic test for cancer detection',
Number of protocol: AR2221815C58D796

[2023] Progetto Avvio alla Ricerca, Tipo 2,
Sapienza, University of Rome
Project title: 'Nanoparticle-based laser blood test for early cancer detection',
Number of protocol: AR22318877873DA9

[2024] Best oral award in the International school of nanomedicine, 01/07-05/07/2024,
Fondazione Ettore Majorana, Erice, Italy. Title: 'Bio-coronated liposomal Temozolomide mitigates growth in 3D brain tumor models'.