

CURRICULUM VITAE ET STUDIORUM

del DR. GIUSEPPE ANGELLOTTI

PREPARED IN ACCORDANCE WITH ART.. 46 E 47 DEL D.P.R. N. 445 DEL 28

DICEMBRE 2000

PERSONAL INFORMATION

Full Name	Giuseppe Angellotti
Address	Via Vincenzo Bellini, 15, 90045, Cinisi, Palermo, Italy
Date of birth	5 Dicembre 1993
E-mail	giuseppe.angellotti@cnr.it
PEC	giuseppe.angellotti@pec.it
Pagine Web	WEBSITE: https://www.giuseppeangellotti.academicwebsite.com SCOPUS: https://www.scopus.com/authid/detail.uri?authorId=57211984065 ORCID: https://orcid.org/0000-0001-9226-4748

EDUCATION AND PROFESSIONAL EXPERIENCES

October 1, 2014 – July 19, 2019	Enrolled in the Master's Degree Program in Pharmacy at the University of Palermo, earning a Master's Degree in Pharmacy with top honors (110/110 <i>cum laude</i>). Thesis: "Lipid nanocarriers trapped in bioerodible hydrogel matrices for the release of Curcumin and Metronidazole for tissue regeneration in dentistry" (Advisor: Prof. Viviana De Caro).
December 2, 2019 – December 1, 2022	Awarded a PhD scholarship in Experimental Oncology and Surgery at the Department of Surgical, Oncological, and Stomatological Disciplines, University of Palermo. The research project focused on the development of "bioerodible multifunctional sponges for reparative processes through controlled release of antibiotics and antioxidants for oral surgery" (Supervisor: Prof. Viviana De Caro). Research conducted in the Pharmaceutical Technology laboratories at the University of Palermo.
February 1 – August 1, 2021	Internship at Gesan Production Srl, Campobello di Mazara, focusing on analytical protocols, process controls, quality assurance, and adherence to GMP and ISO standards for medical device preparation.
November 8, 2021 – March 10, 2022	Training period at the Faculty of Chemical and Process Engineering, Warsaw University of Technology (Poland), under Prof. Tomasz Ciach. Worked on 3D-printed polymeric scaffolds loaded with curcumin and beta-tricalcium phosphate for guided bone tissue regeneration.
March 9, 2023	PhD in Experimental Oncology and Surgery
March 10 – July 16, 2023	Voluntary researcher at the Pharmaceutical Technology laboratories, University of Palermo

July 17, 2023 – Present

Researcher at the Institute for the Study of Nanostructured Materials (ISMN), National Research Council (CNR), Palermo Research Area. Employed under the SAMOTHRACE Innovation Ecosystem project (PNRR – Mission 4, Component 2, Investment 1.5)

SCIENTIFIC ACTIVITIES

- ▯ Development and characterization of innovative drug delivery systems (nanoparticle-based and nanocomposite) for oral and systemic therapy.
- ▯ Creation of pharmaceutical and cosmetic formulations using agricultural by-products (grape and citrus waste).
- ▯ Design of polymeric scaffolds via 3D printing for bone tissue regeneration.
- ▯ Development of silica microcapsules for controlled biopesticide release using sol-gel techniques.
- ▯ Green extraction and characterization of biomaterials (cellulose, pectin, tannins) from agro-industrial waste.

PUBLICATIONS

1. Ciriminna R., Li Petri G., **Angellotti G.**, Luque R., A. Fabiano Tixier A.S., Meneguzzo F., Pagliaro M. "Citrus Flavonoids as Antimicrobials" *Chemistry and Biodiversity*, **2025** DOI: 10.1002/cbdv.202403210
2. De Caro V., Tranchida G., La Mantia C., Megna B., **Angellotti G.**, Di Prima G. "Hybrid Nanocomposite Mini-Tablet to Be Applied into the Post-Extraction Socket: Matching the Potentialities of Resveratrol-Loaded Lipid Nanoparticles and Hydroxyapatite to Promote Alveolar Wound Healing" *Pharmaceutics*, **2025**. DOI: 10.3390/pharmaceutics17010112
3. Ciriminna R., Li Petri G., **Angellotti G.**, Fontananova E., Luque R., Pagliaro M. "Nanocellulose and microcrystalline cellulose from citrus processing waste: A review" *International Journal of Biological Macromolecules*, **2024** DOI:10.1016/j.ijbiomac.2024.135865
4. Ciriminna R., **Angellotti G.**, Li Petri G., Meneguzzo F., Ricucci C., Di Carlo G., Pagliaro M. "Cavitation as a zero-waste circular economy process to convert citrus processing waste into biopolymers in high demand" *Journal of Bioresources and Bioproducts*, **2024** DOI: 10.1016/j.jobab.2024.09.002
5. Pizzone D.M., **Angellotti G.**, Carabetta S., Di Sanzo R., Russo M., Mauriello F., Ciriminna R., Pagliaro M. "The LimoFish Circular Economy Process for the Marine Bioeconomy" *ChemSusChem*, **2024** DOI: 10.1002/cssc.202301826
6. Belfiore E., Di Prima G., **Angellotti G.**, Panzella V., De Caro V. "Plant-Derived Polyphenols to Prevent and Treat Oral Mucositis Induced by Chemo- and Radiotherapy in Head and Neck Cancers Management" *Cancers*, **2024**, 16(2), p.260. DOI: 10.3390/cancers16020260
7. **Angellotti G.**, Ricucci C., Di Carlo G., Pagliaro M., Ciriminna R. "Towards sustainable pest management of broad scope: sol-gel microencapsulation of *Origanum vulgare* essential oil" *Journal of Sol-Gel Science and Technology*, **2024**. DOI: 10.1007/s10971-024-06512-8
8. **Angellotti G.**, Pizzone D.M., Pagliaro M., Avellone G., Lino C., Mauriello F., Ciriminna R. "High stability of AnchoisOil extracted with limonene from anchovy fillet leftovers" *Discover Applied Sciences*, **2024**, 6(115). DOI: 10.1007/s42452-024-05781-w
9. Ciriminna R., Meneguzzo F., Li Petri G., Meneguzzo C., **Angellotti G.**, Pagliaro M. "Chestnut tannin: New use, research and bioeconomy" *Journal of Bioresources and Bioproducts*, **2024**, 9(3). DOI: 10.1016/j.jobab.2024.05.001
10. Ciriminna R., **Angellotti G.**, Li Petri G., Pagliaro M. "Reproducibility in chemistry research". *Heliyon*, **2024**. 10 (14). DOI: 10.1016/j.heliyon.2024.e33658
11. Ciriminna R., **Angellotti G.**, Luque R., Pagliaro M. "The citrus economy in Sicily in the early bioeconomy era: a case study for bioeconomy practitioners". *Biofuels, Bioproducts and Biorefining*, **2024**. 18, p. 356–364 DOI: 10.1002/bbb.2588
12. Ciriminna R., **Angellotti G.**, Luque R., Formenti M., Della Pina C., Pagliaro M. "Learning from hype en route to fulfill the industrial potential of nanocellulose". *Carbohydrate Polymer Technologies and Applications*, **2024**. 7, DOI: 10.1016/j.carpta.2024.100512
13. Ciriminna R., **Angellotti G.**, Luque R., Pagliaro M. "Green chemistry and the bioeconomy: a necessary nexus". *Biofuels, Bioproducts and Biorefining*, **2024**. 18, p. 347–355 DOI: 10.1002/bbb.2585

14. Ciriminna R., **Angellotti G.**, Luque R., Pagliaro M. "Citations in Chemistry at the Dawn of Open Science". ACS Omega, **2023**. DOI: 10.1021/acsomega.3c07037
15. Di Prima G., Belfiore E., **Angellotti G.**, De Caro, V "Green next-generation excipients enriched in polyphenols from recovery of grape processing waste black bentonite: Influence of unconventional extraction solvents on antioxidant properties and composition". Sustainable Chemistry and Pharmacy **2023**, 37, p. 101401. DOI: 10.1016/j.scp.2023.101414
16. **Angellotti G.**, Di Prima G., D'Agostino F., Peri E., Tricoli M.R., Belfiore E., Allegra M., Cancemi P., De Caro, V "Multicomponent Antibiofilm Lipid Nanoparticles as Novel Platform to Ameliorate Resveratrol Properties: Preliminary Outcomes on Fibroblast Proliferation and Migration". International Journal of Molecular Science **2023**, 24(9), p. 8382. DOI: 10.3390/ijms24098382
17. **Angellotti G.**, Di Prima G, Belfiore E, Campisi G, De Caro V. "Chemopreventive and Anticancer Role of Resveratrol against Oral Squamous Cell Carcinoma" *Pharmaceutics* **2023**, 15, 275. DOI: 10.3390/pharmaceutics15010275. ISSN 1999-4923.
18. Di Prima G, Belfiore E, Migliore M, Scarpaci AG, **Angellotti G.**, Restivo I, Allegra M, Arizza V, De Caro V. "Green extraction of polyphenols from waste bentonite to produce functional antioxidant excipients for cosmetic and pharmaceutical purposes: a waste-to-market approach" *Antioxidants* **2022**, 11, 2493. DOI: 10.3390/antiox11122493. ISSN 2076-3921
19. De Caro V, **Angellotti G.**, D'Agostino F, Di Prima G. "Buccal thin films as potent permeation enhancers for Cytisine transbuccal delivery" *Membranes* **2022**, 12, 1169. DOI: 10.3390/membranes12111169. ISSN 2077-0375
20. **Angellotti G.**, Di Prima G, Scarpaci AG, D'Agostino F, Campisi G, De Caro V. "Spray-Dried Cytisine-Loaded Matrices: Development of Transbuccal Sustained-Release Tablets as a Promising Tool in Smoking Cessation Therapy" *Pharmaceutics* **2022**, 14,1583. DOI: 10.3390/pharmaceutics14081583. ISSN 1999-4923.
21. Di Prima G, Scurria A, **Angellotti G.**, Belfiore E, Pagliaro M, Meneguzzo F, De Caro V, Ciriminna R. "Grapefruit IntegroPectin isolation via spray drying and via freeze drying: A comparison" *Sustainable Chemistry and Pharmacy* **2022**, 29, 100816. DOI: 10.1016/j.scp.2022.100816. ISSN 2352-5541
22. **Angellotti G.**, Presentato A, Murgia D, Di Prima G, D'Agostino F, Scarpaci AG, D'Oca MC, Alduina R, Campisi G, De Caro V. "Lipid nanocarriers-loaded nanocomposite as a suitable platform to release antibacterial and antioxidant agents for immediate dental implant placement restorative treatment" *Pharmaceutics* **2021**, 13, 2072. DOI: 10.3390/pharmaceutics13122072. ISSN 1999-4923
23. Di Prima G, **Angellotti G.**, Scarpaci AG, Murgia D, D'Agostino F, Campisi G, De Caro V. "Improvement of Resveratrol Permeation through Sublingual Mucosa: Chemical Permeation Enhancers versus Spray Drying Technique to Obtain Fast-Disintegrating Sublingual Mini-Tablets" *Pharmaceutics* **2021**, 13, 1370. DOI: 10.3390/pharmaceutics13091370. ISSN 1999-4923.
24. Murgia D., **Angellotti G.**, Conigliaro A., Carfi Pavia F., D'Agostino F., Contardi M., Mauceri R., Alessandro R., Campisi G., De Caro V. "Development of a Multifunctional Bioerodible Nanocomposite Containing Metronidazole and Curcumin to Apply on L-PRF Clot to Promote Tissue Regeneration in Dentistry." *Biomedicines* **2020**, 8(10), 425; DOI: 10.3390/biomedicines8100425. ISSN: 2227-9059
25. **Angellotti G.**, Murgia D., Campisi G., De Caro V. "Quercetin-Based Nanocomposites as a Tool to Improve Dental Disease Management." *Biomedicines* **2020**, 8(11), 504. DOI: 10.3390/biomedicines8110504 ISSN: 2227-9059.
26. **Angellotti G.**, Murgia D., Presentato A., D'Oca M.C., Scarpaci A.G., Alduina R., Raimondi M.V., De Caro V." Antibacterial PEGylated Solid Lipid Microparticles for Cosmeceutical Purpose: Formulation, Characterization, and Efficacy Evaluation." *Materials* **2020**, 13, 2073; DOI: 10.3390/ma13092073 ISSN: 1996-1944
27. Murgia D., **Angellotti G.**, D'Agostino F., De Caro V. "Bioadhesive Matrix Tablets Loaded with Lipophilic Nanoparticles as Vehicles for Drugs for Periodontitis Treatment: Development and Characterization." *Polymers* **2019**, 11(11), 1801 DOI: 10.3390/polym11111801. ISSN: 2073-4360

CONFERENCES

1. **Angellotti G.**, Pagliaro M., Ciriminna "Sol-Gel Encapsulation of Essential Oils for Enhanced Stability and Insecticidal Activity" In ISGS PhD Student eMarathon, 2025. Lecture
2. **Angellotti G.**, Pagliaro M., Ciriminna R "Essential Oils in Sustainable Agriculture: Sol-Gel Microencapsulation for Prolonged Insecticidal Efficacy" In SciSiCa2024 Società Chimica Italiana Congresso Congiunto Sezioni Sicilia E Calabria 2024. Oral

- presentation
3. **Angellotti G**, Ricucci C, Di Carlo G., Pagliaro M., Ciriminna R. "Towards sustainable pest management of broad scope: sol-gel microencapsulation of *Origanum vulgare* essential oil" In Nanoinnovation24, Roma, Italia, 2024. *Poster*
 4. **Angellotti G**, Di Prima G., Peri E., Cancemi P., De Caro V. "Lipid Nanoparticles Loaded With Resveratrol And Glycyrrhetic Acid As New Tool For Wound Healing" In CRS Italy Local Chapter Workshop "Next generation biomaterials and carriers: new tools for drug delivery and therapy" Palermo, Italia, 2023. *Poster*
 5. Di Prima G, Belfiore E, **Angellotti G**, De Caro V "Green next generation biomaterials from virtuous recovery of grape processing waste bentonite" In CRS Italy Local Chapter Workshop "Next generation biomaterials and carriers: new tools for drug delivery and therapy" Palermo, Italia, 2023. *Poster*
 6. Di Prima G, Scurria A, **Angellotti G**, Belfiore E, Pagliaro M, Meneguzzo F, De Caro V, Ciriminna R. "Freeze drying versus Spray drying to obtain Grapefruit IntegroPectin powder" In workshop Polysaccharides in drug delivery – on the road to innovation, Roma, Italia, 27-28 Ottobre 2022. *Poster*
 7. Di Prima G, Belfiore E, Migliore M, Scarpaci AG, **Angellotti G**, De Caro V. "The New Life Of Exhausted Bentonite From The Grape Processing Industry: From Waste To Precious Resource To Produce Novel Raw Materials Enriched In Polyphenols" In 15th world congress on Polyphenols applications 2022, Valencia, Spagna, 28-30 Settembre 2022. *Poster*

SCIENTIFIC ORGANIZATIONAL ACTIVITIES

Since 2022	REVIEWER FOR INTERNATIONAL JOURNALS: Pharmaceutics MDPI (ISSN 1999-4923), International Journal of Molecular Science MDPI (ISSN: 1422-0067)
2024-2025	Guest Editor of Pharmaceutics Special Issue "Nanocomposites as Implantable Devices or Drug Delivery Platforms: A New Insight into Treat Dental and Oral Diseases"

OTHER ACTIVITIES

2018-2019	-Participation in innovation events like Innovation Day, Contamination Lab, and entrepreneurship competitions
2024	Attendee of the Nanotechnologies School during Nanoinnovation24 Congress; speaker at "Science of the Festino" initiative
2025	Partecipation at EsperienzaInsegna 2025 with an exhibition "The circular economy in Sicily: how to sustainably obtain new biomaterials from citrus industry waste"

LANGUAGE

Native	ITALIAN
Others	English

PERSONAL DATA PROCESSING CONSENT:

Authorized under D. Lgs. 196/2003 and GDPR 679/16.

Date 16/04/2025

Firma

Giuseppe Quirici