

Publications list

1. Chronopoulou, L., Cacciotti, I., Amalfitano, A., Di Nitto A., D'Arienzo V., Nocca, G., **Palocci, C.** Biosynthesis of innovative calcium phosphate/hydrogel composites: physicochemical and biological characterisation, *Nanotechnology*, 2021, 32(9), 095102
2. Fabio Sciubba, Laura Chronopoulou, Daniele Pizzichini, Vincenzo Lionetti, Claudia Fontana, Rita Aromolo, Silvia Socciarelli, Loretta Gambelli, Barbara Bartolacci, Enrico Finotti, Anna Benedetti, Alfredo Miccheli, Ulderico Neri, **Cleofe Palocci,*** and Daniela Bellincampi, Olive mill wastes: A source of bioactive molecules for plant growth and protection against pathogens, *Biology*, 2020, 9(12), pp. 1–20, 450
3. Chronopoulou L., Scaramuzza FA, Fioravanti R, Di Nitto A, Cerra S, **Palocci C***, Fratoddi I., Noble metal nanoparticle-based networks as a new platform for lipase immobilization. *Int J Biol Macromol.* (2020) Mar 1;146:790-797
4. Chronopoulou L., Donati L., Bramosanti M., Rosciani R., **Palocci C.**, Pasqua G., Valletta A. Microfluidic synthesis of methyl jasmonate-loaded PLGA nanocarriers as a new strategy to improve natural defenses in *Vitis vinifera*” *Scientific Reports* 9(1),18322, 2019
5. Chronopoulou L., Domenici F., Giantulli S., Brasili F., D’Errico C., Tsauli G., Tortorella E., Bordi F., Morrone S., **Palocci C.**, Silvestri I., “PLGA based particles as “drug reservoir” for antitumor drug delivery: characterization and cytotoxicity studies *Colloids and Surfaces B: Biointerfaces* 180, pp. 495-502, 2019
6. Cacciotti, I., Chronopoulou, L., **Palocci, C.**, Amalfitano, A., Cantiani, M., Cordaro, M., Lajolo, C., Calla, C., Boninsegna, A., Lucchetti, D., Gallenzi, P., Sgambato, A., Nocca, G., Arcovito, A. “18-β-Glycyrrhetic Acid Cytotoxicity On Oral Carcinoma Cell Line is Affected By Nanodelivery Systems”, (2018) *Nanotechnology*, 29, 2851
7. Chronopoulou, L., Daniele, M., Perez, V., Gentili, A., Gasperi, T., Lupi, S., **Palocci, C***, “A physico-chemical approach to the study of genipin crosslinking of biofabricated peptide hydrogels”, (2018) *Progress Biochemistry*, 70, pp. 110-116
8. Fusco, G., Chronopoulou, L., Galantini, L., Zerillo, A., Rasik, Z.M., Antiochia, R., Favero, G., D’Annibale, A., **Palocci, C.**, Mazzei, F.” Evaluation of novel Fmoc-tripeptide based hydrogels as immobilization supports for electrochemical biosensors" (2018) *Microchemical journal* 137, 105–110. DOI: 10.1016/j.microc.2017.10.002, (IF 3.38, cit 1)
9. **Palocci, C.**, Valletta, A., Chronopoulou, L., Donati, L., Bramosanti, M., Brasili, E., Baldan, B., Pasqua, G.” Endocytic pathways involved in PLGA nanoparticle uptake by grapevine cells and role of cell wall and membrane in size selection", (2017) *Plant Cell Reports* 36(12), pp. 1917-1928.
10. Cerbelli, S., Borgogna, A., Murmura, M.A., Annesini, M.C., **Palocci, C.**, Bramosanti, M., Chronopoulou, L. “A tunable microfluidic device to investigate the influence of fluid-dynamics on polymer nanoprecipitation”, (2017) *Chemical Engineering Transactions*, 57, 853-858
11. Bramosanti, M., Chronopoulou, L., Grillo, F., Valletta, A., **Palocci, C***. “Microfluidic-assisted nanoprecipitation of antiviral-loaded polymeric nanoparticles” (2017) *Colloids and Surfaces A* 532, 369–376.
12. Chronopoulou, L., Toumia, Y., Cerroni, B., Gentili, A., Paradossi, G., **Palocci, C*** “Biosynthesis and characterization of a gelogenic Fmoc-tetrapeptide for biotechnological applications” (2017) *Colloids and Surfaces A*, 532, 535–540.

13. Chronopoulou, L., **Palocci, C.**, Valentino, F., Pettiti, I., Waclawek, S., Černík, M., Papini, M.P. "Stabilization of iron (micro)particles with polyhydroxybutyrate for in situ remediation application" (2016) *Appl. Sci.* 6(12), 417- 426.
14. Chronopoulou, L., Toumia, Y., Cerroni, B., Pandolfi, D., Paradossi, G., **Palocci, C***. Biofabrication of genipin-crosslinked peptide hydrogels and their use in the controlled delivery of naproxen, (2017) *New Biotechnology*, 37, 138-143
15. Waclawek, S., Chronopoulou, L., Petrangeli Papini, M., Vinod, V.T.P., **Palocci, C.**, Kupčík, J., Černík, M. "Enhancement of stability and reactivity of nanosized zero-valent iron with polyhydroxybutyrate" (2017) *Desalination and Water Treatment* 69, 302–307.
16. Chronopoulou, L., Di Domenico, E.G., Ascenzioni, F., **Palocci, C***. Positively charged biopolymeric nanoparticles for the inhibition of *Pseudomonas aeruginosa* biofilms (2016) *Journal of Nanoparticle Research*, 18 (10), 308-318.
17. Chronopoulou, L., Nocca, G., Castagnola, M., Paludetti, G., Ortaggi, G., Sciubba, F., Bevilacqua, M., Lupi, A., Gambarini, G., **Palocci, C***. "Chitosan based nanoparticles functionalized with peptido mimetic derivatives for oral drug Delivery" (2016) *New Biotechnol.* 33(1), 23-31.
18. Chronopoulou L., Margheritelli S., Paradossi G., Bordi F., Sennato S., **Palocci C***. "Biosynthesis and characterization of cross-linked Fmoc peptide-based hydrogels for drug delivery applications" (2015) *Gels*, 1(2), 179-193. doi.org/10.3390/gels1020179 (This publication is not indexed in Scopus or Web of Science).
19. Chronopoulou L., Amalfitano A., **Palocci C.**, Nocca G., Arcovito A., "Dexamethasone-loaded biopolymeric nanoparticles promote gingival fibroblasts differentiation" (2015) *Biotechnology Progress*, 31(5), 1381–1387.
20. Venditti I., **Palocci C.***, Chronopoulou L., Fratoddi I., Fontana L., Diociaiuti M., Russo MV., "Candida rugosa lipase immobilization on hydrophilic charged gold nanoparticles as promising biocatalysts: activity and stability investigations" (2015) *Colloids Surf B Biointerfaces.*, 131, 93-101
21. Valletta A., Chronopoulou L., **Palocci C.**, Baldan B., Donati L., Pasqua G., "Poly(lactic-co-glycolic) acid nanoparticles uptake by *Vitis vinifera* L. cells and tissues and grapevine-pathogenic fungi" (2014) *J. Nanop. Research*, 16, 2744-2758,
22. Cifani N., Chronopoulou L., Pompili B., Di Martino A., Bordi F., Sennato S., Di Domenico E. G., Ascenzioni F., **Palocci C***. "Improved stability and efficacy of CS/pDNA complexes for gene delivery" (2014) *Biotech. Lett.*, 37(3), pp 557-565
23. Chronopoulou L., Sparago C., **Palocci C***. "A modular microfluidic platform for the synthesis of biopolymeric nanoparticles entrapping organic actives" (2014) *J. Nanop. research*, 16, 2703- 2709.
24. Chronopoulou I., Sennato S., Bordi F., Giannella D., Di Nitto A., Barbetta A., Dentini M., Togna A.R., Togna G.I., Moschini S., **Palocci C***, "Designing unconventional Fmoc-peptide-based biomaterials: structure and related properties" (2014) *Soft Matter*, 10, 1944-1952.
25. Bordi F., Chronopoulou L., **Palocci C.**, Bomboi F., Di Martino A., Ascenzioni F., Cifani N., Pompili N., Sennato S., "Chitosan-DNA complexes: effect of molecular parameters on the efficiency of delivery" (2014) *Colloids and Surfaces A: Physicochemical and Engineering Aspects* 460, 184-190.
26. Amaduzzi F., Bomboi F., Bonincontro A., Bordi F., Casciardi S., Chronopoulou L., Diociaiuti M., Mura F., **Palocci C.**, Sennato S. "Chitosan-DNA complexes: charge inversion and DNA condensation" (2014) *Colloids and Surfaces B: Biointerfaces*, 114, 1–10.
27. Chronopoulou L., Agatone C., **Palocci C***, Supercritical CO₂ extraction of oleanolic acid from grape pomace, (2013) *International Journal of Food Science and Technology*, 48, 1854–1860.

28. Chronopoulou L., Massimi M., Giardi M. F., Cametti C., Conti De Virgiliis L., Dentini M. **Palocci C***, Chitosan-coated PLGA nanoparticles: a sustained drug release strategy for cell cultures,(2013) *Colloids and Surfaces B: Biointerfaces*, 103, 310-317.
29. Chronopoulou L., Togna AR., Guarguaglini G., Masci G., Giammaruco F., Togna G. , **Palocci C***. "Self-assembling peptide hydrogels promote microglial cells proliferation and NGF production" (2012) *Soft Matter*, 8, 5784-5790
30. Chronopoulou L., Cutonilli A., Cametti C., Dentini M., **Palocci C***., "PLGA-based nanoparticles: effect of chitosan in the aggregate stabilization. A dielectric relaxation spectroscopy study, (2012) *Colloids and Surfaces B: Biointerfaces* 97, 117– 123
31. Fratoddi I., Venditti I., Cametti C., **Palocci C.**,Chronopoulou L, Marino M., Acconcia F., Russo M.V. "Functional polymeric nanoparticles for dexamethasone loading and release" (2012) *Colloids and Surfaces B: Biointerfaces* 93, 59–66.
32. Chronopoulou L., Kamel G. Bordi F., Lupi S., **Palocci C.**, "Enzyme immobilization on polymeric nanoparticles as a tool to improve biocatalytic performance" ECCM15, Composites at Venice, Proceedings of the 15th European Conference on Composite Materials, Venice, Italy, 24-28 June 2012, 1-8 (Conference paper)
33. Kamel G., Bordi F., Chronopoulou L., Lupi S., **Palocci C.**, Sennato S., Verdes P. V., "Adsorption of *Candida rugosa* lipase at water polymer interfaces: the case of Poly(D,L)lactide" (2011) *Surface Science*, 605, 2017–2024.
34. Chronopoulou L, Kamel G., Sparago C., Bordi F., Lupi S., Diociaiuti M., **Palocci C***., "Structure-activity relationships of *Candida rugosa* lipase immobilized on polylactic acid nanoparticles" (2011) *Soft Matter* , 7, 2653-2662
35. Chronopoulou L., Lorenzoni S., Masci G., Dentini M. Togna A., Togna G., Bordi F. **Palocci C.*** "Lipase-supported synthesis of peptidic hydrogels", (2010) *Soft Matter*, 6, 2525–2532
36. Chronopoulou L., Fratoddi I., **Palocci C.**, Venditti I., Russo M.V. "Osmosis Based Method Drives the Self-Assembly of Polymeric Chains into Micro- and Nanostructures" (2009) *Langmuir* 25(19), 11940–11946,
37. Masotti A., Bordi F., Ortaggi G.", Marino F., **Palocci C.**, A novel method to obtain Chitosan-DNA nanoparticles with definite size and shape"(2008) *Nanotechnology*, 5 (6)055302
38. **Palocci C.**, Falconi M., Chronopolou L., Cernia E., Lipase-catalyzed regioselective acylation of tritylglycosides in supercritical carbon dioxide, (2008) *Journal of supercritical fluids* 45 (1), 88-93,
39. **Palocci, C.**, Chronopoulou, L., Venditti, I., Cernia, E., Diociaiuti, M., Fratoddi, I., Russo, M.V., "Lipolytic enzymes with improved activity and selectivity upon adsorption on polymeric nanoparticles" (2007) *Biomacromolecules* 8 (10), 3047-3053,
40. **Palocci C.**, Barbetta A., La Grotta A., Dentini M.,"Porous biomaterials by using supercritical fluids emulsions" (2007) *Langmuir* 23 (15), 8243-5
41. Fiorillo F., **Palocci C.**, Soro S., Pasqua G., "Latex lipase of *Euphorbia characias* L.: an aspecific acylhydrolase with different isoforms. (2007) *Plant Science* 172 (4); 722-27,
42. **Palocci C.**, Falconi M., Alcaro S., Tafi A., Ortuso F., Alberghina L., Cernia E. " An approach to address *Candida rugosa* lipase Regioselectivity in the acylation reactions of tritylated glucosides" (2007) *Journal of Biotechnology* 128 (4) , 908-918
43. Celia E., Cernia E., **Palocci C.**, Soro S., Turchet T., "Tuning *Pseudomonas cepacea* lipase activity in supercritical fluids " (2005) *Journal of Supercritical fluids*, 33, 193-199,
44. Panzavolta, F., Soro, S., D'Amato, R., **Palocci, C.**, Cernia, E., Russo, M.V."Acetylenic polymers as new immobilization matrices for lipolytic enzymes" *Journal of (2005) Molecular catalysis B: enzymatic*, 32, 67-76,

45. Rahimi H., Soro S., Rughetti A., **Palocci C.**, Biffoni M., Barachini S., Taurino F., Cernia E., Frati L., Nuti M. "Monoclonal antibodies against *Candida rugosa*" (2004) *Journal of Molecular catalysis: B enzymatic* 28, 71-74,
46. Cernia E., **Palocci C.**, Ricchiuto E., Soro S. "Monolayer technique for the study of the hydrolysis of dilaurin isomers biocatalysed by different lipases" (2004) *Colloid and interfaces B: Biointerfaces* 33, 7-13
47. **Palocci C.**, Soro S., Cernia E., Fiorillo F., Belsito C., Monacelli B., Delle Monache G., Pasqua G., "Lipolytic isoenzymes from *Euphorbia latex*" (2003) *Plant Science*, 165(3), 577-582,
48. Cernia E., Delfini M., Di Cocco E., **Palocci C.**, Soro S., "Investigation on lipase-catalysed hydrolysis of naproxen methyl ester: use of NMR spectroscopy methods to study substrate-enzyme interaction" (2002) *Bioorganic chemistry* 30, 276-284,
49. Botta B., Zappia G., Tafi A., Botta M., Manetti F., Cernia E., Milana G., **Palocci C.**, Soro S., Delle Monache G., "Lipase-catalysed regioselective acylation of resorc[4]arenes" (2002) *J. Mol. Catal. B: Enzymatic*, 16, 241-247
50. Bonini C., Cazzato C., Cernia E., **Palocci C.**, Soro S., Viggiani L. "Lipase enhanced catalytic efficiency in lactonisation reactions" (2001) *J. Mol. Catal. B: Enzymatic*, 16, 1-5,
51. Manetti F., Mileto D., Corelli F., Soro S., **Palocci C.**, Cernia E., D'Acquarica I., Lotti M., Alberghina L., Botta M., "Design and realization of a tailor made enzyme to modify the molecular recognition of 2-arylpropionic esters by *Candida rugosa* lipase", (2000) *Biochimica et Biophysica acta*, 1543, 146-158
52. Celia E., Cernia E., D'Acquarica I., **Palocci C.**, Soro S., "High yield and optical purity of biocatalyzed acylation of trans-2-phenylcyclohexanol with *Candida rugosa* lipase in non conventional media" (1999) *J. Molecular Catalysis B : Enzymatic* 6, 495-503
53. Cernia E., **Palocci C.**, Soro S., "The role of reaction medium in lipase-catalyzed esterification and transesterifications" (1998) *Chemistry and Physics of lipids* 93, 157-168, (Conference paper)
54. Cernia E., Milana G., Ortaggi G. **Palocci C.**, Soro S., "Functionally cross-linked polyvinylalcohol as new matrix for lipase immobilization", (1998) *Progress in Biotechnology*, 15, 667-671
55. Cernia E., **Palocci C.**, "Lipases in supercritical fluids" (1997) *Methods in Enzymology*, Lipases Part B: Enzyme Characterization and Utilization, 286, 495-508
56. Catoni E., Cernia E., **Palocci C.** "Different aspects of solvent engineering in lipase catalyzed esterifications" (1996) *J. Molecular Catalysis A: Chemical* 105, 79-86
57. Delle Monache G., Scurria R., Vitali A., Botta B., Pasqua G., Monacelli B., **Palocci C.**, Cernia E., "Two isoflavones and a flavone from the fruits of *Maclura Pomifera*" (1994) *Phytochemistry* 37(3), 893-898,
58. Cernia, E., **Palocci, C.**, Gasparrini, F., Misiti, D., Fagnano, N. "Enantioselectivity and reactivity of immobilized lipase in supercritical carbon dioxide" (1994) *J. Molecular catalysis*, 89(1-2) 11-18
59. Cernia E., Delfini M., Magri' A., **Palocci C.**, "Enzymatic catalysis by lipase from *Candida cylindracea*: enantiomeric activity evaluation by ¹H and ¹³C NMR." (1994) *Cellular and Molecular Biology* (Noisy-le-Grand, France), 40 (2), pp. 193-199.(Cit 6)
60. Cernia E., **Palocci C.**, Gasparrini F., Misiti D., "Pseudomonas lipase catalytic activity in supercritical carbon dioxide"(1994) *Chemical and biochemical engineering quarterly* 8 (1), 1-4. (This publication is not indexed in Scopus or Web of Science).

Book chapters

1. Majone, M., Chronopoulou, L., Lorini, L., Martinelli, A., Palocci, C., Rossetti, S., Valentino, F., Villano, M. "PHA copolymers from microbial mixed cultures: Synthesis, extraction and related properties(2017) Current Advances in Biopolymer Processing and Characterization, pp. 223-276, Nova Science Publishers.(**indexed on Scopus**)
2. Palocci, C., Chronopoulou, L. Supercritical fluid extraction of pharmaceutical compounds from waste materials derived from vinification processes (2015) Fruit and Pomace Extracts: Biological Activity, Potential Applications and Beneficial Health Effects, pp. 69-79. Cited 1 time.(**indexed on Scopus**)
3. Cleofe Palocci and Laura Chronopoulou, "Biotechnological routes to synthesize peptide based hydrogels in aqueous medium" Green Chemistry, Edited by Nova Publisher, 2011 ISBN 9781613248775 Cited 1 time (**indexed on Scopus**)
4. Cleofe Palocci, Andrea Masotti, Federico Bordi, Federica Marino, Giancarlo Ortaggi, "Fluorescence and scanning electron microscopy of Chitosan/DNA nanoparticles for biological applications" Modern Research and Educational Topics in Microscopy", A.Mendez-Vilas And J.Diaz (Eds) p.690-696, Formatex 2007 ISBN 9788461194209
5. Cleofe Palocci and Laura Chronopolou, "Hybrid systems biomolecule-polymeric nanoparticle: synthesis, properties and biotechnological applications pp.1-47 2009. Advances in Macromolecules: perspectives and applications" "Ed, Springer ISBN 9789048131914 Cited 2 times.(**indexed on Scopus**)
6. Cleofe Palocci, Fulvio Fiorillo, Carmela Belsito, Pasqua Gabriella and Enrico Cernia "Plant Latex Lipases: physiological role and applications" *Recent Res. Devel. Biochem.* 6(2005):87-89, ISBN 9788177362978
7. E. Cernia, C. Palocci, S. Soro, "Stereoselectivity of microbial lipases modulated by solvent engineering" Protein Engineering of industrial biotechnology, edited by Taylor & Francis, Autor Lilia Alberghina, pp. 135-146, (2000) ISBN 9789057024122

National and International Patents

1. Frati, Luigi; Biffoni, Mauro; Rughetti, Aurelia; Koshkaki, Hassan Rahimi; Barachini, Serena; Nuti, Marianna; **Palocci, Cleofe**; Soro, Simonetta; Cernia, Enrico. Antimicrobial lipase antibodies, their sequences, and uses thereof. PCT Int. Appl. (2004), 42 pp. CODEN: PIXXD2 WO 2004039845 A1 20040513 CAN 140:405485 AN 2004:392490 CAPLUS
2. Cesta, Maria Candida; Allegretti, Marcello; Cernia, Enrico; **Palocci, Cleofe**; Soro, Simonetta; Tomei, Alessandra. Chemoenzymatic process for the production of S-(carboxymethyl)-L-cysteine. Ital. Appl. (2003), 16pp. CODEN: ITXXCZ IT 2001MI2433 A1 20030519 CAN 146:359175 AN 2007:414895 CAPLUS

3. **Palocci, Cleofe;** Russo, Maria Vittoria; Belsito, Carmela Maria Angelica; Cernia, Enrico; D'Amato, Rosaria; Fratoddi, Ilaria; Panzavolta, Fabrizio; Soro, Simonetta; Venditti, Iole. Method for controlling the dimensions and the morphology of nanostructural polymeric materials, materials thereby obtained and uses thereof. PCT Int. Appl. (2006), 23 pp. CODEN: PIXXD2 WO 2006051572 A2 20060518 CAN 144:468769 AN 2006:469897 CAPLUS

Roma 27/0/2021

A handwritten signature in black ink, appearing to be 'Cleofe', written in a cursive style.