

CLEOFE PALOCCI
Curriculum Vitae

Date 27/01/2021

– General Information

Full Name	Cleofe Palocci
Date of Birth	
Place of Birth	Roma
Citizenship	Italiana
Permanent Address	
Mobile Phone Number	
E-mail	cleofe.palocci@uniroma1.it
Spoken Languages	Italiano, inglese

– Education

Type	Year	Institution	Notes (Degree, Experience,...)
Biological Science degree	1986	University of Rome “La Sapienza”	Full marks (110/110 e lode)
Qualification for biologist profession	1987	University of Rome “La Sapienza”	
PhD in Chemical Sciences IV° cycle	1988-1991	University of Rome “La Sapienza”	
PhD in Chemical Sciences	1991	University of Rome “La Sapienza”	PhD thesis title: Lipolytic activity of enzymatic preparation and its use in biocatalyzed hydrolysis reactions

– Appointments

IIIA – Academic Appointments

Start	End	Institution	Position
1991-ongoing		University of Rome “La Sapienza”	Ranked 1° at the completion for 1 position of “Ricercatore Universitario” in Industrial Chemistry (CHIM04)
1991	1994	University of Rome “La Sapienza”	Ricercatore Universitario (RU)
1994	2019	University of Rome “La Sapienza”	Ricercatore Universitario confermato (RU)
2016	2022	University of Rome “La Sapienza”	Qualified for the role “Professore II fascia” for the “settore concorsuale 03C2, SSD CHIM04, Industrial chemistry
2019	ongoing	University of Rome “La Sapienza”	“Professore II fascia” “settore concorsuale 03C2, SSD CHIM04, Industrial chemistry

– Teaching experience

IV A – Lectures and Courses in Academic Institutions

Year

Institution	Lecture/Course	Year
Academic years: 1996/97-2001/02	University of Rome “La Sapienza”	Biochimica Industriale (6CFU) for the Five year Industrial Chemistry Degree
Academic years: 1997/98-2001/02	University of Rome “La Sapienza”	Laboratorio di Biochimica Industriale (6CFU) for the Five year Industrial Chemistry Degree
Academic years: 2001/02-2010/11	University of Rome “La Sapienza”	Biochimica Industriale (6CFU) for the Bachelor Degree in Industrial Chemistry
Academic years: 2001/02-2010/11	University of Rome “La Sapienza”	Laboratorio di Biochimica Industriale (6CFU) for the Bachelor Degree in Industrial Chemistry
Academic years: 2006/07-2009/10	University of Rome “La Sapienza”	Bioproduzione e bioconversioni: principi (3CFU) Master Degree in Industrial Chemistry, curriculum Organico-biochimico
Academic years: 2005/6-2009-2010	University of Rome “La Sapienza”	Corso modulare (2 CFU): “Enzimi nella modificazione di composti bioattivi: recenti progressi” nell’ambito del corso di Chimica Organica Industriale II , for the Master Degree in Industrial Chemistry, curriculum Organico-biochimico
Academic years : 2009/2010,21010/11, 2011/12, 2012/13, 2013/14, 2014/15, 2015/16, 2016/17, 2017/, 2018/19- ongoing	Università degli studi di Roma“La Sapienza” di Roma	Biotrasformazioni Industriali (9CFU) for the Master Degree in Industrial Chemistry, curriculum Organico biotecnologico
Academic years: 2014/15, 2015/16, 2016/17, 2017/18, 2018/19-ongoing	Università degli studi di Roma“La Sapienza” di Roma	Biomateriali(6CFU) for the Master Degree in Biotechnology

IV C –Other teaching experiences

The candidate held thematic courses and seminars at National and International University Masters, Specialization Schools and Italian University PhD courses

Academic years: 2018/19	Università degli studi di Roma“La Sapienza” di Roma	“Biopolymers degradation mechanism” Lectures for the International Moplen School Ferrara 1/02/2019
Academic years: 2014/15, 2015/16, 2016/17,	Università degli Studi di Roma“La Sapienza” di Roma, Dipartimento di Chimica	Nanotecnologie e Nanomateriali per applicazioni industriali (6CFU) for the students of the PhD School in Chemical Sciences

2017/18, 2018/19-		
Academic years: 2016/17	Università degli studi di Roma "La Sapienza" di Roma	"Biomaterials and their applications in drug and gene delivery" Lectures for the International Moplen School , Ferrara 2016
Academic years: 2014/15	Università degli studi di Roma "La Sapienza" di Roma	TFA 2015-Didattica della Chimica Industriale A013, A057
Academic years: 2011/12	Università degli studi di Roma "La Sapienza" di Roma	"Nanotecnologie e Medicina rigenerativa: drug delivery e gene delivery" MASTER di I° livello in : Scienze della vita nel giornalismo e nei rapporti politico istituzionali (SGP)
Academic years: 2013/14	Università degli studi di Roma "La Sapienza" di Roma	TFA 2013-Didattica della Chimica Industriale A013, A057
Academic years: 1998/99- 2010/11	Università degli studi di Roma "La Sapienza" di Roma	Tecnologie di produzione di sostanze naturali" Scuola di Specializzazione in Sostanze Naturali e Master II livello in sostanze Naturali
Academic years: 1994/95- 2008/2009	Università degli studi di Roma "La Sapienza" di Roma	"Le bioconversioni nelle trasformazioni industriali "Scuola di Specializzazione e Master di I° livello in Applicazioni e Controlli Biotecnologici
Academic years: 2008/09	Università degli studi di Roma "La Sapienza" di Roma	"Biomolecola-nanoparticella polimerica: sintesi, caratterizzazione ed applicazioni biotecnologiche" Conferenza di Facoltà di Scienze MFN

-Supervisor of PhD Thesis works in Chemical Sciences, Material Sciences, Physics and Chemical Engineering and many Master Thesis Works in Chemistry and Industrial chemistry carried out at University of Rome La Sapienza

-Tutoring activities for foreign students (Internship abroad)

Year	Internship duration and object	Student
2015/16	May 2015-July 2016, Entrapment of Rolipram within PLGA based nanoparticles	Te Gai student of the Engineering Materials Degree of Polytech, Grenoble

2017/18	May 2018-July 2018, study of <i>Candida rugosa</i> lipase activity immobilized on polymeric nanoparticles activated by using monoclonal antibody	Justine Dobies, student of 4th year internship of the Engineering Materials Degree of Polytech, Grenoble
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- Organization Activities and Other Institutional Roles

Acad.Year	Role
2018/19	Member of commission "Affidamento assegni di Ricerca "D.R.1030, University of Rome La Sapienza
2018/19	President of entrance test commission for knowledge verification TOLC-S, Faculty of Sciences, University of Rome La Sapienza
2018/19	President of entrance test commission for knowledge verification of scheduled access to Biotechnology Degree , Faculty of Sciences, University of Rome La Sapienza
2017	Member for the commission for the admission to the PhD in Chemical Engineering Cycle XXXIII° University of Rome La Sapienza
2017-ongoing	Member of Commissione Gestione Assicurazione Qualità (CGAQ) , Industrial Chemistry Degree, University of Rome La Sapienza
2016/17-ongoing	Member of the PhD Board of the PhD School Chemical Engineering of the University of Rome La Sapienza
2015/16	President of entrance test commission for knowledge verification of the Faculty of Sciences University of Rome La Sapienza
2015	Member for the commission for the admission to the PhD in Chemical Science cycle XXX° University of Rome La Sapienza
2015	Member of the Organizing Committee of the VIII European Symposium on Biopolymers
2014	President of entrance test commission for knowledge verification of the Faculty of Sciences University of Rome La Sapienza
2011/12-2015/16	Member of the PhD board of the PhD School in Chemistry of the University of Rome La Sapienza
2006-2009	Member of Commissione affidamenti insegnamenti , CAD in Industrial Chemistry of the University of Rome La Sapienza
2007-2010	Member of "Giunta di Dipartimento di Chimica" of the University of Rome La Sapienza

- Society memberships, Awards and Honors

Year	Role
2018-ongoing	Scientific evaluator of National University Projects as Member of REPRISE Ministerial database scientific expert of MIUR for the section: basic research
2018-ongoing	Editor/Board Member of the Journal "Current Research in Biopolymers", Gavin Publishers
2016-ongoing	Member of the Interdepartmental Center of Applied Sciences for the Protection of the Environment and Cultural Heritage
2010-ongoing	Member of the Consorzio Interuniversitario Biotecnologie(CIB)

- Funding Information [grants as PI-principal investigator or I-investigator]

GRANTS as **Principal Investigator 12**

Year	Title	Program	Grant value
2018	Un approccio "glocal" alle bioraffinerie di terza generazione (PI)	:Finanziamento CIB, NETWORK-CIB:CATALISI DELL'INNOVAZIONE NELLE BIOTECNOLOGIE II.	10.000euro (+24.000euro research grant)
2018	Tecnologie "green" per una agricoltura sostenibile: protezione da fitopatogeni e fertilizzanti di colture agroalimentari mediante biomolecole ottenute da reflui oleari(PI)	Progetto Regione Lazio 2017	150.000 euro
2016	New insight into microfluidic assisted production of nano and microbeads for biotechnological applications. (PI)	Bando Ateneo Ricerca scientifica Sapienza 2016	11.000 euro
2012	Biotecnologie per il rilascio sito specifico di molecole per l'igiene orale (PI)	Bando Filas a valere sul Bando Bioscienze relativa al progetto di Ricerca Industriale e Sviluppo	45.000 euro
2008	"Struttura-attività di enzimi lipolitici adsorbiti su nanoparticelle polimeriche: studi mediante spettroscopia IR" (PI)	AST (Ateneo della scienze e della tecnica)2008	4.365 euro
2006	Sistemi coniugati nano particella enzima: sintesi, caratterizzazione ed impiego in biocatalisi (PI)	Bando Facoltà SMFN 2006	1.940 euro

2005	Sistemi coniugati nano particella enzima: sintesi, caratterizzazione ed impiego in biocatalisi (PI)	Bando Facoltà SMFN 2005	1.382,25 euro
2004	Attività e selettività di enzimi lipolitici da fonte microbica nella acilazione di monosaccaridi in fluidi supercritici (PI)	Bando Facoltà SMFN 2004	2.328 euro
2003	Sviluppi nel settore del tissue-engineering mediante l'impiego di biopolimeri in media non convenzionali (PI)	Consorzio Interuniversitario Biotecnologie (CIB)	25.000 euro
2002	Modulazione della attività e selettività di lipasi microbiche nella acilazione (PI)	PRIN 2002	34.920
2001	Nuovi mezzi di reazione e nuovi sistemi catalitici nelle biotrasformazioni (PI)	Progetto CNR, Programma Biotecnologie	25.000
2001	Biotecnologie per il rilascio sito specifico di biomolecole per l'igiene orale (PI)	Bando Bioscienze, Filas Regione Lazio 2001	45.000
2000	Ottenimento si S-carbossi -L-cisteina attraverso processi chemo-enzimatici (PI)	Contratto di ricerca Dompè Farmaceutici	22.451,04 euro

GRANTS as **Investigator 11**

Year	title	Program	Grant value
2020	A new life for plastic waste: conversion into polyhydroxyalkanoates via an integrated physical-chemical and biotechnological process	Progetti di Ricerca di Ateneo Sapienza Numero protocollo: RG120172B794BC2D	14.000 euro

2019	Sviluppo di un processo biotecnologico avanzato in scala di laboratorio per la produzione di poliidrossialcanoati con colture microbiche miste: dalla selezione microbica all'estrazione ed applicazione del polimero prodotto	Progetti di Ricerca di Ateneo Sapienza Numero protocollo: RM11916B87F9FBFB	14.500 euro
2017	Immunomodulatory properties of the Amniotic Stromal cell SEcretome: from Multi-omics profiling to nanotechnology-aided delivery for controlled release in osteoarthritis	Progetto Prin "ASSEMBLE" coordinatrice Ornella Parolini, CREM Brescia	24.000 euro (research grant)
2017	REsources from URban Blo-waSte(RES URBIS).”(I)	EU Horizon 2020 (Grant Agreement: 730349)	24.000 euro (research grant)
2017	Materiali innovativi nella bonifica di falde acquifere contaminate: caratterizzazione, reattività e ipotesi di implementazione tecnologica (I)	Bando Ateneo Ricerca scientifica Sapienza RM11715C8212BC94	11.000euro (+24.000 euro research grant)
2015	Development and characterization of reactive materials for groundwater remediation (I)	Bando Ateneo Ricerca scientifica Sapienza 2015	11.000 euro
2014	Novel biomaterials for tissue engineering and the controlled release of biomolecules. (I)	Bando Ateneo Ricerca scientifica Sapienza 2014	10.000 euro
2014	An improved therapeutic effect of doxorubicin embedded into PLGA-based nanobiopolymeric vectors: in vitro effect on breast cancer cell line and circulating tumor cell.(I)	Bando Ateneo Ricerca scientifica Sapienza 2014	11.000 euro
2013	Nuovi vettori nanobiopolimerici per la veicolazione di molecole di difesa contro funghi patogeni in <i>Vitis vinifera</i> (I)	Bando Ateneo Ricerca scientifica Sapienza 2013	13.000 euro
2012	Ruolo dello stress ossidativo nell'alterazione dell'omeostasi muscolare e approccio terapeutico mediate antiossidanti veicolati da liposomi specifici (I)	Progetto FIRB 2012 Futuro in ricerca (progetto n RBFR12BUMH dd 735 MIUR , 6/11/2012(National Scientific Coordinator V.Moresi, Five national research units)	1.063.421 euro 243.000 euro (scientific research unit Sapienza)

2011	Design and development of non-viral drug delivery vectors (I)	Novel Nanotech-Based Approaches for the Study and Treatment of Neurodegenerative diseases” IIT@Sapienza Project A1	
2008	Sintesi e caratterizzazione di scaffolds altamente porosi, nanoparticelle a base polimerica e loro materiali compositi. (I)	PRIN 2008	100.000 euro 36.000 euro (scientific research unit Sapienza)

– Research Activities

*In brackets the reference as reported in the publications list

Keywords Research line*: **Novel bulk and microfluidic technologies for polymeric nanoparticles fabrication: approaches to drug and gene delivery**

Brief Description

Microfluidic reactors	Currently, one of the major problems in the liquid phase synthesis processes of nanostructured polymeric materials in bulk systems is that related to the control of the size and degree of polydispersion of the obtained nanoparticles which, together with the difficulty of standardizing the chemical-physical reaction conditions, limits the large-scale transfer of these technologies. In the past my research group and I patented a methodology (PCT SapienzaWO2006051572) to obtain micro and nanostructured material by using a membrane based approach [29,30,38-42, 44]. Actually the use of flow focusing microfluidic reactors represents a particularly interesting alternative for the synthesis of nanomaterials. In this field one of my research lines was focused on the development of capillary flow microreactor, with flow-focusing mode, for the synthesis of polymeric nanoparticles[13,15,17]. As part of the study of this reactor system, the main chemical-physical parameters that control the synthesis of the polymer nanoparticles in the microfluidic reactor have been identified and optimized: the ratio between the continuous and dispersed phase flows, the concentration of the polymer solution and the size of the focusing channel. The results also suggested that the flow structure associated with the cross-junction micromixer might control the nanoprecipitation process in the mixing channel downstream the device, thus motivating further quantitative analysis of steady-state mixing in the segment of the flash nanoprecipitator[5]. Following the optimization of the operating parameters, it was possible to synthesize polymeric nanoparticles in the range from 20 to 800 nm with low polydispersion index[3-5]. On this basis nano and microstructured biopolymer materials, have been used for drug delivery approaches or as immobilization support for industrial enzymes[26,27]. Part of the research focus is on antitumoral and antiproliferative micro and nano drug delivery systems for potential applications for in vitro treatment of cancer cells, delivery of genes or nucleic acid [1,4,14,16,19,20,21,26] (sRNA for HIV treatment) and delivery of biopesticides for plant pathogens[6]. Research in this area also included the design of novel polyesters[24,25] and polysaccharides based carries specifically funzionalized or
Nanostructured materials	
Flow-focusing	
Nanofabrication	
Drug delivery	
Gene delivery	
Controlled release	
Kinetic studies	

with a core-shell NPs moiety based on PLGA CS-coated. The physico-chemical and surface properties of the different nanoformulations were also investigated
This topic is represented by a total of 25 publications and supported by 12 grants
ERC PE_4_2; PE_4_5; PE_5_10; PE_5_15

Research line: **Supercritical fluids as “green solvents” for extraction, selective reaction media for biocatalyzed reactions and emulsion templating of biopolymers**

Keywords

Supercritical fluids
Solvent physico-chemical properties
Green solvents
Bioactive compounds
PHA extraction from microbial cells
Emulsion templating in SCCO ₂

Brief Description

The supercritical fluids have been recently used as an eco-sustainable alternative to the extraction of bioactive compounds from natural matrices (plant as well as microbial cells). In this field one of my recent research lines is focused on the extraction of biodegradable polymers (specifically polyhydroxyalkanoates, PHA) from mixed microbial cultures from urban wastes. In fact, while the strategies for maximizing productivity, as well as the intracellular content of PHA, are now known, the extraction step still remains a "weak" point of the process, on which there is still a wide margin of performance improvement, in terms of purity and recovery of the PHA product, as well as thermal and mechanical properties. Preliminary studies of extraction of PHA from pure microbial cells using supercritical CO₂ permitted to obtain particularly encouraging results with PHA recovery yields of about 70 to 100% [1].book chapter list]. Another research line was the study of supercritical fluid extraction of biomolecules like oleanolic acid [22] from waste materials such as grape pomace, which can represent a yet unexploited source of highly added-value products. This supercritical fluid extraction technique proved successful in extracting oleanolic acid from grape pomace samples, and the extraction yield afforded was comparable with well-established, yet sometimes disadvantageous, extraction techniques such as SL extractions. Moreover, in addition to ongoing research in solvent-free systems, biosynthesis in supercritical fluids can potentially offer new alternatives also to enzyme-catalysed reactions being a useful tool to modulate enzymatic performance by modifying solvent physico-chemical properties. On this basis a long research activity has been conducted in the past by studying the catalytic efficiency of model enzymatic catalysts of industrial interest[50,53,55]. With increasing pressure of the reaction medium the catalytic efficiency of the enzymes considered improved resulting in negative activation volume (-1340 cm³/mol) approaching critical values[37,38,47]. Studies on the enzyme kinetics and stereoselectivity in SCCO₂ reaction medium were also performed. Finally another topic of my research was been the study on the possibility to prepare high internal porosity polymeric matrices (i.e.dextran) through the emulsion templating technique in supercritical media. Experimental and theoretical criteria for tailoring matrices porosity and morphology of the porous biomaterials obtained have been outlined [31].

This topic is represented by a total of 8 publications and supported by 7 grants
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Keywords

Research line: **"Bioproduction" of nano and microstructured peptidic based hydrogels for biotechnological applications**

Hydrogelators
Peptidic hydrogels
Nanofibers
Mechanical properties
Tissue engineering

Today hydrogels are considered the most interesting biomaterials for biotechnological applications. In this framework the possibility of using enzymes, of different source, for the preparation of peptide based hydrogels has been investigated[19,24,30]. The biosynthesized Fmoc-tripeptides are able to self-assemble in water forming highly interconnected nanofibrillary structures[7]. The synthesized materials are also injectable systems, whose precursors, liquids at room temperature, can rapidly give rise to the formation of a gel at physiological temperature. The physico-chemical properties of these materials have been highlighted by means of SEM, AFM, FTIR, NMR and SAXS measurements[3]. Recently, the possibility of improving their properties by using cross-linking agents[2,9] (genipin), as well as by unconventional aminoacid precursors or nanocarbon based materials (graphene oxide) has also been investigated. These hydrogels, employed in drugs delivery studies proved to be able to entrap and release them according to controlled release profiles[13]. Currently, the work is aimed at the use of such promising biomaterials as scaffolds for cell growth and differentiation in the biomedical field.

This topic is presented by a total of 8 publications and supported by 2 Grants. ERC codes: PE5_11;PE5_12;PE5_24

Keywords

Research line: **Study of the enzymatic activity of lipolytic enzymes and applications in industrial biotechnologies**

Brief description

Lipolytic enzymes
Unconventional media
Enzyme Structure-performance studies
Nanocarriers
enzyme activity and selectivity

In this field a long and thorough study of the enzymatic activity in hydrolysis or synthesis reactions (in unconventional media) to obtain optically active molecules of potential industrial interest has been carried in the first years of my experimental activity as University researcher. As an example chemo-enzymatic procedures have been developed for the synthesis of chiral intermediates of pharmaceutical interest (S-carboxy-L-methyl cysteine (patent Dompè, Ital. Appl. (2003), 16pp. CODEN: ITXXCZ IT 2001MI2433). The interpretation of the kinetic data of the enzymatic transformations investigated has also allowed a better understanding of enzyme mechanism of action at the molecular level with attention to the *structure-performance relationships* studies[33-48]. Innovative strategies have also been developed for modulating the catalytic performance of lipolytic enzymes that have involved the use of polymer matrices (both natural and synthetic) of nano and micrometric dimensions for the production of bioconjugates, enzymes and polymeric carriers[34,39]. Nanostructured polymers have also recently used as a carriers for enzymatic proteins as a tool for modulating and/or improving the catalytic properties of the biocatalyst. In particular, it was demonstrated that the interaction with micro or nanostructured matrices can cause conformational changes in the structure of the enzymatic protein, depending on the size of the carrier [29,34,39]. Such conformational variations may result in a modulation of the catalytic properties as well as of the stability of the biocatalyst.

This topic is presented by a total of 8 publications and supported by 9 Grants

ERC codes:PE5_16;PE4_14

Total number of publications	65	Scopus
Total number of papers in the last five years	26	Scopus
Total numbers of patents	3	Scopus
Hirsch (H) index*	21	Scopus
Total Citations	1263	Scopus

Direction or Participation to the activities of a research group characterized by international and national collaboration.

Collaborations with University groups:

-Collaboration with the group of Prof. Mauro Majone and Marco Petrangeli Papini

a) ResUrbis EU project 2017-2019

b) 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.

c) 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

d) **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

-Collaboration with the group of Prof. Mariella Dentini and Andrea Barbetta

a) 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

b) 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.

c) 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

-Collaboration with the group of Prof. Gabriella Pasqua (Dip. Di Biologia Ambientale,)

a) **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,

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

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

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

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

-Collaboration with the groups of Prof, Federico Bordi (Dip. Fisica),

-Collaboration with the groups of Prof Stefano Lupi (Dip. Fisica)

a)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,

c) 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)

d)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.

-Collaboration with the groups of Professor Maria Cristina Annesini (Department of Chemical Engineering, Università di Roma La Sapienza)

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,

-Collaboration with the groups of Prof. Bruno Botta

a)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;

b)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

c)**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,

-Collaboration with the group of prof. Luigi Frati

a)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,

b)**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),

-At National level:

-Giuseppina Nocca (Università Cattolica del sacro Cuore),

a) 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, 285101

b) 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

At International level:

1)Collaboration with the groups of Prof. Esteban Gudino, Università di Buenos Aires

2)Collaboration with the groups of prof. SUBRAYAL REDDY, University of Lancashire

Erasmus student thesis work in collaboration with prof. Reddy group (Antonio Simonetti, Master Degree in Chemistry)

3)Collaboration with the groups of Dr. Ulrich Schaffrath (University of Aquisgrana)

Part – XIII Complete list of Publications.

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

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