

**EUROPASS
CURRICULUM VITAE
EUROPEAN FORMAT**



PERSONAL INFORMATION

Name	LUIGI AMBROSIO
Office Address	VIA CAMPI FLEGREI 34 - 80078 POZZUOLI, ITALY.
E-mail	<u>luigi.ambrosio@cnr.it</u>
Nationality	Italian
Office	Institute of Polymers, Composites & Biomaterials, National Research Council, (IPCB-CNR), Via Campi Flegrei 33 ,80078 Pozzuoli, Italy.
Occupation	Research Director

EDUCATION AND TRAINING

Date	25/07/1982	Doctoral Degree in Chemical Engineering
Name and type of organization providing education and training	University of Naples "Federico II"	
Title and professional qualification obtained	Doctor in Chemical Engineering.	
Thesis	"Design & characterization of composite tendons "	
Main subjects and professional skills related to the education awarded	Biomaterials, Tissue Engineering, Biomedical Materials & Devices Design. Polymers and composites materials properties characterization and processing. Additive technologies.	

WORK EXPERIENCE

01/03/2022-Today	Acting Director at Institute of Polymer, Composites & Biomaterials, (IPCB-CNR), National Research Council, Naples, Italy
31/12/2018 – 28/02/2022	Director at Institute of Polymer, Composites & Biomaterials, (IPCB-CNR), National Research Council, Naples, Italy
30/03/2017 – Today	Qualified Full Professor in Bioengineering - 09/G2 and Materials Science and Technology-09/D1 (D.D. 1532/2016, art. 16, comma 1, Legge 240/10).
18/11/2012–17/11/2016	Director of Chemical Science & Materials Technology Department, National Research Council of Italy. Rome, Italy.
01/04/2012 – 19/11/2012	Member and Coordinator of "Comitato Ordinatore" of Chemical Science & Materials Technology Department, National Research Council of Italy, Rome, Italy.
01/04/2011 to 31/03/2012	Acting Director of Molecular Design Department, National Research Council of Italy. Rome, Italy.

From 16/04/2008 to 19/11/2012	Director of the Institute of Composite and Biomedical Materials,, National Research Council of Italy, Piazzale Tecchio 80, 80125 Naples, Italy.
From 2009 to 2010	Appointed Professor of Artificial Organs, University of Naples "Federico II", Italy (2009-2010).
From 2003 to 15/04/2008	Associate Director of the Institute of Composite and Biomedical Materials, National Research Council of Italy, Piazzale Tecchio 80, 80125 Naples, Italy
From 2007 to 2008	Appointed Professor of Biomaterials Design, University of Naples "Federico II".
From 2001 to date	Research Director at Institute of Composite and Biomedical Materials, National Research Council of Italy, Piazzale Tecchio 80, 80125 Naples, Italy
From 1997 to 2007	Appointed Professor of Biomaterials, University of Naples "Federico II", Italy
From 1997 to 2003	Adjunct Professor at Institute of Materials Science, University of Connecticut, Storrs, CT, USA.
From 1997 to 2000	Senior Research Scientist at Institute of Composite Materials Technology, CNR, Piazzale Tecchio 80, 80125 Naples, Italy.
From 1989 to 1997	Research Scientist at Institute of Composite Materials Technology, CNR, Piazzale Tecchio 80, 80125 Naples, Italy.
From 1987 to 1988	Principal Research Scientist at Kontron Medical Inc., 9 Plymouth Street, Everett, MA, USA.
Form 1986 to 1987	Research Associate at Department of Materials and Production Engineering, University of Naples, Italy.
From 1985 to 1986	Research Associate at Department of Chemical Engineering and Institute of Materials Science, Polymer Program, University of Connecticut, Storrs, CT, USA.
From March 1985 to September 1985	Visiting Scientist at Kontron Medical Inc., 9 Plymouth Street, Everett, MA, USA.
From 1983 to 1985	Research Associate at Department of Materials and Production Engineering, University of Naples.

PERSONAL SKILLS AND EXPERTISES

MOTHER TONGUE ITALIAN

OTHER LANGUAGES

	ENGLISH
• Reading skills	excellent
• Writing skills	excellent
• Verbal skills	excellent

SOCIAL SKILLS AND COMPETENCES High interaction with other people (i.e. in multicultural environments). Coordination of research team.

ORGANISATIONAL SKILLS AND EXPERTISE

- Member of the European Platform on Nanomedicine.
- Member of European Commission Advisory Group of the FP7 Theme Nanoscience, Nanotechnologies, Materials and New Production Technologies.
- Coordinator of CNR projects: Special Materials for Advanced Technologies.
- Coordinator of EC-FP5 and FP7 research projects.
- Referee of Ministry of Education of Portugal for evaluation of projects in the field of materials science.
- Referee of Ministry of Education of Italian Government for evaluation of research project on polymer, composites and biomaterials technology.
- Board Committee Member of the Technology District on Engineering of Polymer

- Composites and Structures - IMAST Scarl., (2002-2006 and 2018-today).
- Board Committee Member of the Competence Centre "New Materials Technology" Campania Region (2004-2008).
 - Board Committee Member Institut de Bioenginyeria de Catalunya IBEC, Barcelona, Spain (2007-2011), Academica Life Science srl (spin-off) (2006-2012).
 - Member, Board of Directors, Centro Italiano Ricerche Aerospaziale - CIRA s.c.p.a. (2012-2014).
 - Member of the Steering Committee of the International College of Fellows - Biomaterials Science Engineering (2012-2015).
 - Member of the High Level Group on Key Enabling Technologies, European Commission (2010-2015).
 - Member of the "Comitato di indirizzo strategico e monitoraggio" of the Framework Program between Regione Lombardia and National Research Council" (2015-2016).
 - Member and vice-President, Board of Directors, Consorzio Collezione Nazionale dei Composti Chimici e Centro Screening- CNCCS scarl" (2012-2016).
 - Member of the "Comitato di indirizzo strategico" of the Framework Agreement between CNR and INSTM-Consortio Interuniversitario Nazionale per la Scienza e Tecnologia dei Materiali (2013-2016).
 - Member of the "Comitato di indirizzo strategico" of the Research Agreement between CNR and SABIC Industries Corporation (2013-2016).
 - Member of the "Comitato di indirizzo strategico" of the Framework Agreement between CNR and FINMECCANICA (2013-2016).
 - Member of the "Comitato Permanente per la Ricerca e la Sicurezza Interna - Co.Ri.SI." within the Framework Agreement between CNR and Ministero dell'Interno. (2013-2016).
 - Member of the "Comitato di indirizzo strategico" of the Framework Agreement between CNR and CONAI-Consortio per il recupero degli Imballaggi (2013-today).
 - Member of the "Comitato di indirizzo strategico" of the Framework Agreement between CNR and Politecnico di Milano (2014-2016).
 - Coordinator of the Evaluation Panel "Nanotechnology". Bando MISE, Fondo Crescita Sostenibile. National Research Council. (2014-2015).
 - Member of the "Comitato di indirizzo strategico" of the Framework Agreement between CNR and SCI, Società Chimica Italiana (2014-2016).
 - Member of the "Comitato di indirizzo strategico" of the Framework Agreement between CNR and Federchimica Confindustria - Federazione Nazionale dell'Industria Chimica (2015-2016).
 - Member of the "Comitato di indirizzo strategico e monitoraggio" of the Framework Program between CNR and Istituto Poligrafico di Stato e Zecca dello Stato – iPZS (2015-2016).
 - Director in charge of the CNR Interdepartmental Foresight S&T International Project (2015-2017).
 - Overseas Commissioner of Sichuan Province Talent Program, Chengdu, China (May 2016-2016).
 - Member of the International Advisor Board of Sichuan University, Chengdu, China. (June 2016-today).
 - Member of the Scientific Council of INAIL (July 2014 – Today).
 - co-Chairmen of the Working group on Advanced Materials and Nanotechnologies Italy-USA Cooperation on Science and Technology, 12th Joint Commission Meeting. Italian Ministry of Foreign Affairs and International Cooperation. (Jan. 2016 – Today)
 - Scientific Committee Member of L'Université Euro-méditerranéenne de Fès, Maroc. (January 2016 – Today).
 - Member of the Scientific Committee on Chemical and Biomolecular Research of the Microbiome: Nutritional Applications and Impact on Metabolic Health. Université Laval, Quebec, Canada. (Oct. 2016 – Today).
 - Senior Consultant of SCU Talent Development Strategy Committee, Sichuan University, Chengdu, China. (2017 – 2020).
 - Member, Board of Directors, Kerline Srl., Bologna, Italy. (May 2018 – Today).

Scientific Society and Main Editorial Activities

- Member of the Editorial Board of Journal of Materials Science: Materials in Medicine (Editor in Chief since 2018).
- Member of the European Society of Biomaterials (Council member since 1997, Treasurer 1999-2004, President 2007-2014, Past President 2014-2018).
- Member of the Italian Society of Biomaterials, Vice-President since 2005.
- Member of the European Society of Biomechanics
- Member of the Italian Society of Macromolecules
- Member of Italian Chemical Society, Interdivision Biomaterials (Coordinator 2003-2006)
- Member of the Editorial Board of Journal of Biomedical Materials Research
- Member of the Editorial Board of Biomacromolecules Journal
- Member of the Editorial Board of Biomaterials Journal
- Member of the Editorial Board of Royal Society Interface's Journal
- Member of the Honour Committee of Journal of Intercultural and Interdisciplinary Archaeology.
- Associate Editor of Journal of Applied Biomaterials & Biomechanics
- Editor of Journal of Materials Science: Materials in Medicine.

Technical skill and expertise

Research interest include design and characterisation of polymers and composites for medical applications and tissue engineering, rheology of biological fluids, structural properties of natural tissue, processing of polymers and composites, hydrogels and biodegradable polymers, Additive Technology.

SCIENTIFIC PERFORMANCE - ORCHID ID: orcid.org/40-0002-8367-2405
Google Scholar

H-Index:	77
Citing Total	19.462
i10-index	333

SCOPUS	
H-Index:	66
Citing Total	14.187

Books and Articles

Publications include over 360 papers on international scientific journals and book, 27 patents, 5 books, 80 Book Chapters. over 481 presentations at international and national conferences and over 180 invited lectures.

From 2018, the list of publications is reported below:

1. V. Guarino, G. Ausanio, V. Iannotti, **L. Ambrosio**, L. Lanotte, "Electrospun nanofiber tubes with elastomagnetic properties for biomedical use". *Express Polymer Letters*, 2018, 12(4), 318-329.
2. S. Scialla, A. Barca, B. Palazzo, U. D'Amora, T. Russo, A. Gloria, R. De Santis, T. Verri, A. Sannino, **L. Ambrosio**, F. Gervaso, "Bioactive chitosan-based scaffolds with improved properties induced by dextran-grafted nano-maghemite and L-arginine amino acid". *Journal of Biomedical Materials Research Part A*, 2019 <https://doi.org/10.1002/jbm.a.36633>.
3. V. Guarino, G. Ausanio, V. Iannotti, **L. Ambrosio**, L. Lanotte, "Elastomagnetic nanofibres wires by magnetic field assisted electrospinning". *Express Polymer Review* 2019, 13(5), 419-28.
4. M.G. Raucci, I. Fasolino, M. Caporali, M. Serrano-Ruiz, A. Soriente, M. Peruzzini, **L. Ambrosio**, "Exfoliated black phosphorus promotes in vitro bone regeneration and suppresses osteosarcoma progression through cancer-related inflammation inhibition". *ACS Applied Materials & Interfaces*, 2019, 11(9), 9333-9342,

5. M.G. Raucci, U. D'Amora, A. Ronca, C. Demitri, **L. Ambrosio**, "Bioactivation routes of gelatin-based scaffolds to enhance at nanoscale level bone tissue regeneration". *Frontiers in Bioengineering and Biotechnology*, 2019. <https://doi.org/10.3389/fbioe.2019.00027>.
6. V. Guarino, R. Altobelli, T. Caputo, **L. Ambrosio**, S. Caserta, P. Calcagnile, C. Demitri, "Mono- and Bi-Phasic Cellulose Acetate Micro-Vectors for Anti-Inflammatory Drug Delivery". *Pharmaceutics* 2019, **11**(2), 87. <https://doi.org/10.3390/pharmaceutics1102008>.
7. I. Fasolino, M. G. Raucci, A. Soriente, C. Demitri, M. Madaghiele, A. Sannino, **L. Ambrosio**, "Osteoinductive and anti-inflammatory properties of chitosan-based scaffolds for bone regeneration". *Materials Science and Engineering: C*. 2019;105:110046.
8. M.A. Szychlinska, U. D'Amora, S. Ravalli, **L. Ambrosio**, M. Di Rosa, G. Musumeci, "Functional Biomolecule Delivery Systems and Bioengineering in Cartilage Regeneration". *Current Pharmaceutical Biotechnology*, 2019, 20(1), 2019,32-46.
9. F. De Falco, V. Guarino, G. Gentile, M. Cocca, V. Ambrogio, **L. Ambrosio**, M. Avella "Design of functional textile coatings via non-conventional electrofluidodynamic processes". *Journal of Colloid and Interface Science*, 2019, 541, 367-375.
10. J.V. Rau, M. Curcio, M. G. Raucci, K. Barbaro, I. Fasolino, R. Teghil, **L. Ambrosio**, A. De Bonis, A.R. Boccaccini, "Cu-releasing bioactive glass coatings and their in vitro properties". *ACS Applied Materials & Interfaces*, 2019, 11 (6), 5812–5820.
11. M. Salzano de Luna, C. Ascione, C. Santillo, L. Verdolotti, M. Lavorgna, G.G. Buonocore, R. Castaldo, G. Filippone, H. Xia, **L. Ambrosio**, "Optimization of dye adsorption capacity and mechanical strength of chitosan aerogels through crosslinking strategy and graphene oxide addition". *Carbohydrate Polymers*, 2019, 211, 195-203.
12. A. Gloria, T. Russo, U. D'Amora, M. Santin, R. De Santis & **L. Ambrosio**, "Customised multiphasic nucleus/annulus scaffold for intervertebral disc repair/regeneration". *Connective Tissue Research*, DOI: 10.1080/03008207.2019.1650037.
13. M. Tunesi, I. Raimondi, T. Russo, L. Colombo, E. Micotti, E. Brandi, P. Cappelletti, A. Cigada, A. Negro, **L. Ambrosio**, G. Forloni, L. Pollegioni, A. Gloria, C. Giordano, and D. Albani. "Hydrogel-based delivery of Tat-fused protein Hsp70 protects dopaminergic cells in vitro and in a mouse model of Parkinson's disease". *NPG Asia Materials* (2019) 11:28. <https://doi.org/10.1038/s41427-019-0128-8>.
14. U. D'Amora, A. Ronca, M.G. Raucci, S.M. Dozio, H. Lin, Y. Fan, X. Zhang and **L. Ambrosio**, "In situ sol-gel synthesis of hyaluronan derivatives bio-nanocomposite hydrogels". *Regenerative Biomaterials*, (2019), 6(5), 249-258.
15. De Falco, F., Cocca, M., Guarino, V., Gentile, G., Ambrogio, V., **Ambrosio, L.**, Avella, M. "Novel finishing treatments of polyamide fabrics by electrofluidodynamic process to reduce microplastic release during washings". *Polymer Degradation and Stability*, (2019), 165, 110-116.
16. Ronca, A., Rollo, G., Cerruti, P., Fei, G., Gan, X., Buonocore, G. G., Lavorgna M., Xia H., Silvestre C., **Ambrosio, L.** "Selective laser sintering fabricated thermoplastic polyurethane/graphene cellular structures with tailorable properties and high strain sensitivity". *Applied Sciences*, 2019, 9(5), 864.
17. Cristallini, C., Barbani, N., Bianchi, S., Maltinti, S., Baldassare, A., Ishak, R., Onor M., Ambrosio L., Castelvetro V., Cascone, M. G. "Assessing two-way interactions between cells and inorganic nanoparticles". *Journal of Materials Science: Materials in Medicine*, 2020, 31(1), 1-13
18. MG Raucci, U D'Amora, A Ronca, **L Ambrosio**, "Injectable functional biomaterials for minimally invasive surgery". *Advanced Healthcare Materials*, 2020, 9 (13), 2000349.
19. Saracino, E; Maiolo, L; Polese, D; Semprini, M; Borrachero-Conejo, Al; Gasparetto, J; Murtagh, S; Sola, M; Tomasi, L; Valle, F; Pazzini, L; Formaggio, F; Chiappalone, M; Hussain, S; Caprini, M; Muccini, M; **Ambrosio, L**; Fortunato, G; Zamboni, R;

- Convertino, A., Benfenati, V. "A Glial-Silicon Nanowire Electrode Junction Enabling Differentiation and Noninvasive Recording of Slow Oscillations from Primary Astrocytes". *Advanced Biosystems*, 2020, 4 (4) Doi: 10.1002/adbi.201900264.
20. Serrano-Bello, J., Cruz-Maya, I., Suaste-Olmos, F., González-Alva, P., Altobelli, R., **Ambrosio, L.**, Medina L.A., Guarino V., Alvarez-Perez, M. A. "In vivo regeneration of mineralized bone tissue in anisotropic biomimetic sponges". *Frontiers in bioengineering and biotechnology*, 2020, 587. <https://doi.org/10.3389/fbioe.2020.00587>.
 21. Ansari, Z., Kalantar, M., Soriente, A., Fasolino, I., Kharaziha, M., **Ambrosio, L.**, Raucci, M. G. "In-situ synthesis and characterization of chitosan/hydroxyapatite nanocomposite coatings to improve the bioactive properties of Ti6Al4V substrates". *Materials*, 2020, 13(17), 3772.
 22. Zhang, L., D'Amora, U., Ronca, A., Li, Y., Mo, X., Zhou, F., Yuan M., **Ambrosio L.**, Wu J., Raucci, M. G. "In vitro and in vivo biocompatibility and inflammation response of methacrylated and maleated hyaluronic acid for wound healing". *RSC Advances*, 2020, 10(53), 32183-32192.
 23. V Goranov, Tatiana Shelyakova, R De Santis, Y Haranava, A Makhaniok, A Gloria, Anna Tampieri, Alessandro Russo, E Kon, M Marcacci, **L. Ambrosio**, VA Dediu. "3D patterning of cells in magnetic scaffolds for tissue engineering. *Scientific reports*, 2020, 10(1), 1-8.
 24. Zuppolini, S., Maya, I. C., Diodato, L., Guarino, V., Borriello, A., **Ambrosio, L.**, "Self-associating cellulose-graft-poly (ϵ -caprolactone) to design nanoparticles for drug release". *Materials Science and Engineering: C*, 2020, 108, 110385.
 25. Marcella S., Oscurato, S. L., D'Albore, M., Guarino, V., Zeppetelli, S., Maddalena, P., Ambrosio A., **Ambrosio, L.** "Quantitative study of morphological features of stem cells onto photopatterned azopolymer films". *Journal of Functional Biomaterials*, 2020, 11(1), 8.
 26. Gloria, A., Russo, T., D'Amora, U., Santin, M., De Santis, R., **Ambrosio, L.**, "Customised multiphasic nucleus/annulus scaffold for intervertebral disc repair/regeneration". *Connective Tissue Research*, 2020, 61(2), 152-162.
 27. Guida, P., Piscitelli, E., Marrese, M., Martino, V., Cirillo, V., Guarino, V., Angeli E., Cocola E., Pelucchi P., Repetto L., Firpo G., Karnavas T., Gotte M., Gritzapis A., D'Albore M., Repetto D., Pezzuoli D., Missitzis I., Porta G., Bertalot G., Bellipanni G., Zucchi I., **Ambrosio L.**, Valbusa U., Reinbold, R. A., "Integrating microstructured electrospun scaffolds in an open microfluidic system for in vitro studies of human patient-derived primary cells". *ACS Biomaterials Science & Engineering*, 2020, 6(6), 3649-3663.
 28. Petta, D., D'amora, U., **Ambrosio, L.**, Grijpma, D. W., Eglin, D., D'este, M. "Hyaluronic acid as a bioink for extrusion-based 3D printing". *Biofabrication*, 2020, 12(3), 032001.
 29. Guarino, V., Iannotti, V., Ausanio, G., **Ambrosio, L.**, Lanotte, L. "Nanocomposite tubes for magneto-active devices". *eXPRESS Polymer Letters*, 2020, 14(7).
 30. Yang, L., Chen, S., Shang, T., Zhao, R., Yuan, B., Zhu, X., Raucci, M.G., Yang X., Zhang X., Santin M., **Ambrosio, L.**, "Complexation of injectable biphasic calcium phosphate with phosphoserine-presenting dendrons with enhanced osteoregenerative properties". *ACS Applied Materials & Interfaces*, 2020, 12(34), 37873-37884.
 31. Rollo, G., Ronca, A., Cerruti, P., Gan, X. P., Fei, G., Xia, H., Gorokhov G., Bychanok D., Kuzhir P., Lavorgna M., **Ambrosio, L.**, "On the synergistic effect of multi-walled carbon nanotubes and graphene nanoplatelets to enhance the functional properties of SLS 3D-printed elastomeric structures". *Polymers*, 2020, 12(8), 1841.
 32. Rau, J. V., Fosca, M., Fadeeva, I. V., Kalay, S., Culha, M., Raucci, M. G., Fasolino I., **Ambrosio L.**, Antoniac I.V., Uskoković, V., "Tricalcium phosphate cement supplemented with boron nitride nanotubes with enhanced biological properties". *Materials Science and Engineering: C*, 2020, 114, 111044.
 33. Fasolino, I., Soriente, A., **Ambrosio, L.**, & Raucci, M. G., "Osteogenic and anti-inflammatory behavior of injectable calcium phosphate loaded with therapeutic drugs".

34. Della Sala, F., Biondi, M., Guarnieri, D., Borzacchiello, A., **Ambrosio, L.**, Mayol, L., "Mechanical behavior of bioactive poly (ethylene glycol) diacrylate matrices for biomedical application". *Journal of the Mechanical Behavior of Biomedical Materials*, 2020, 110, 103885.
35. Ansari, Z., Kalantar, M., Kharaziha, M., **Ambrosio, L.**, Raucci, M. G., "Polycaprolactone/fluoride substituted-hydroxyapatite (PCL/FHA) nanocomposite coatings prepared by in-situ sol-gel process for dental implant applications". *Progress in Organic Coatings*, 2020, 147, 105873.
36. Redaelli, D. F., Abbate, V., Storm, F. A., Ronca, A., Sorrentino, A., De Capitani, C., Biffi E., **Ambrosio L.**, Colombo G., Frascini, P., "3D printing orthopedic scoliosis braces: A test comparing FDM with thermoforming". *The International Journal of Advanced Manufacturing Technology*, 2020, 111(5), 1707-1720.
37. Guarino, V., Cruz-Maya, I., Reineck, P., Abe, H., Ohshima, T., Fox, K., Greentree A.D., Gibson B.C., **Ambrosio, L.** "Fluorescent Nanodiamonds Embedded in Poly-ε-Caprolactone Fibers as Biomedical Scaffolds". *ACS Applied Nano Materials*, 2020, 3(11), 10814-10822.
38. Silva da Conceição, D. K., Nunes de Almeida, K., Nhuch, E., Raucci, M. G., Santillo, C., Salzano de Luna, M., **Ambrosio L.**, Lavorgna M., Giuliani G., Di Carlo G., Staccioli M.P., Falcade T., Schrekker, H. S. "The synergistic effect of an imidazolium salt and benzotriazole on the protection of bronze surfaces with chitosan-based coatings". *Heritage Science*, 2020, 8(1), 1-14.
39. Saracino E., Zuppolini S., Guarino V., Benfenati B., Borriello A., Zamboni R. **Ambrosio L.**, "Polyaniline nano-needles into electrospun bio active fibres support in vitro astrocyte response". *RSC Advances*, 2021, 11, 11347-11355. DOI: 10.1039/D1RA00596K.
40. Soriente, A., Amodio, S. P., Fasolino, I., Raucci, M. G., Demitri, C., Engel, E., **Ambrosio, L.** "Chitosan/PEGDA based scaffolds as bioinspired materials to control in vitro angiogenesis". *Materials Science and Engineering: C*, 2021, 118, 111420.
41. Luca Maiolo, Vincenzo Guarino, Emanuela Saracino, Annalisa Convertino, Manuela Melucci, Michele Muccini, **Luigi Ambrosio**, Roberto Zamboni and Valentina Benfenati. "Glial Interfaces: Advanced Materials and Devices to Uncover the Role of Astroglial Cells in Brain Function and Dysfunction". *Adv. Healthcare Materials*. 2021, 10, 2001268. DOI: 10/1002/adhm202001268.
42. Nappi F., Nenna A., Larobina D., Martuscelli G., Singh S.S.A., Chello M., **Ambrosio, L.** "The Use of Bioactive Polymers for Intervention and Tissue Engineering: The New Frontier for Cardiovascular Therapy". *Polymers*, 2021, 13(3), 446.
43. Nenna A., Nappi F., Larobina D., Verghi E., Chello M., Ambrosio, L., "Polymers and nanoparticles for statin delivery: current use and future perspectives in cardiovascular disease". *Polymers*, 2021, 13(5), 711.
44. Scialla S., Martuscelli G., Nappi F., Singh S. S. A., Iervolino A., Larobina D., **Ambrosio L.**, Raucci, M. G., "Trends in managing cardiac and orthopaedic device-associated infections by using therapeutic biomaterials". *Polymers*, 2021, 13(10), 1556.
45. Ambrosio, L., Raucci, M. G., Vadalà, G., **Ambrosio, L.**, Papalia, R., Denaro, V. "Innovative Biomaterials for the Treatment of Bone Cancer". *International Journal of Molecular Sciences*, 2021, 22(15), 8214.
46. Della Sala, F., di Gennaro, M., Lista, G., Messina, F., **Ambrosio, L.**, Borzacchiello, A., "Effect of Hyaluronic Acid on the Differentiation of Mesenchymal Stem Cells into Mature Type II Pneumocytes". *Polymers*, 2021, 13(17), 2928.
47. Higuera, G. A., Ramos, T., Gloria, A., Ambrosio, L., Di Luca, A., Pechkov, N., De Wijn J.R., van Blitterswijk C.W., Moroni L. "PEOT/PBT Polymeric Pastes to Fabricate Additive Manufactured Scaffolds for Tissue Engineering". *Frontiers in bioengineering and biotechnology*, 2021, 827.
48. Zavan, B., Gardin, C., Guarino, V., Rocca, T., Cruz Maya, I., Zanotti, F., Ferroni F., Brunello G., Juan-Carlos Chachques J.C., **Ambrosio L.**, Gasbarro, V. "Electrospun

PCL-based vascular grafts: In vitro tests". *Nanomaterials*, 2021, 11(3), 751.

49. Ines Fasolino, Alessandra Soriente, Maria Caporali, Manuel Serrano-Ruiz, Maurizio Peruzzini, **Luigi Ambrosio**, Maria Grazia Raucci, "2D exfoliated black phosphorus influences healthy and cancer prostate cell behaviors". *Scientific reports*, 2021, 11 (1), 1-13.
50. Bigham A., Salehi A.O.M., Rafienia M., Salamat M.R., Rahmati S., Raucci M.G., **Ambrosio L.**, "Zn-substituted Mg₂SiO₄ nanoparticles-incorporated PCL-silk fibroin composite scaffold: A multifunctional platform towards bone tissue regeneration". *Materials Science and Engineering C*, Volume 127, August 2021, 112242.
51. Sharifi, E., Bigham, A., Yousefiasl, S., Trovato, M., Ghomi, M., Esmaeili, Y., Samadi P., Zarrabi A., Ashrafizadeh M., Sharifi S., Sartorius R., Moghaddam F.D., Maleki A., Song H., Agarwal T., Maiti T.K., Nikfarjam N., Burvill C., Mattoli V., Raucci M.G., Zheng K., Boccaccini A.R., **Ambrosio L.**, Makvandi, P., "Mesoporous Bioactive Glasses in Cancer Diagnosis and Therapy: Stimuli-Responsive, Toxicity, Immunogenicity, and Clinical Translation". *Advanced Science*, 2022, 9(2), 2102678.
52. Soriente A., Fasolino I., Gomez-Sánchez A., Prokhorov E., Buonocore G.G., Luna-Barcenas G., **Ambrosio L.**, Raucci M.G., "Chitosan/hydroxyapatite nanocomposite scaffolds to modulate osteogenic and inflammatory response". *Journal of Biomedical Materials Research Part A*, 2022, 2, 110, 266-272;1-7, DOI: 10.1002/jbm.a.37283.
53. Della Sala, F., Silvestri, T., Borzacchiello, A., Mayol, L., **Ambrosio, L.**, Biondi, M. "Hyaluronan-coated nanoparticles for active tumor targeting: influence of polysaccharide molecular weight on cell uptake". *Colloids and Surfaces B: Biointerfaces*, 2022, 210, 112240

Book

- Editor of "Biomedical Composite" Book, Woodhead Publishing Limited & CRC Press, 2010, ISBN978-1-84569-436-4.
- Co-Editor of "Biomaterials for spinal surgery", Book, (L. Ambrosio and KE. Tanner eds.), Woodhead Publishing Limited, 2012, ISBN: 978-1-84569-986-4.
- Co-Editor of "Le Key Enabling Technologies, Un'occasione per la competitività del sistema industriale italiano" Book (Sesto Viticoli and Luigi Ambrosio eds.). Edizioni Angelo Grerini e associati, Milano, February 2014.
- Editor of "Biomedical Composites – Second Edition", Book, Woodhead Publishing Limited, 2017. ISBN: 978-0-08-100752-5 (print), 978-0-08-100759-4 (online).
- Co-Editor of "Electrofluidodynamic technologies (EFDTs) for Biomaterials and Medical Devices - Principles and Advances" Book, (Vincenzo Guarino and Luigi Ambrosio, eds.). Woodhead Publishing Limited, 2018. ISBN: 978-0-08-101745-6 (print), 978-0-08-101746-3 (online).

Book chapters

- 1.V. Guarino, R. Altobelli, F. Della Sala, A. Borzacchiello, **L. Ambrosio**, "Alginate processing routes to fabricate bioinspired platforms for tissue engineering and drug delivery". In *Alginates and their Biomedical Applications*. (HA Rehm, MF Modarali Eds.). 101-120, Springer 2018; doi.org/10.1007/978-981-10-6910-9_4.
- 2.V. Guarino, V. Benfenati, I. Cruz Maya, R. Zamboni, **L. Ambrosio**, "Natural proteins for 3D scaffolds in tissue engineering". In *3D Tissue Engineering Scaffolds: Materials Technologies and Applications*. (Y. Deng, J. Kuiper, Eds.). Elsevier 2018.DOI:10.1016/B978-0-08-100979-6.00002-1.
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- 4.R. De Santis, V. Guarino, **L. Ambrosio**, "Composite biomaterials for bone repair". In *Bone repair biomaterials -Regeneration and Clinical Applications*. Woodhead Publishing Series in Biomaterials, 273-299. doi.org/10.1016/B978-0-08-102451-5.00010-X.
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GRANTS/FUNDING

- "The development of improved biocompatible materials for urological and other Medical Devices". Brite-Euram, BRE2-CT92-033. 1992-1996. Role: Partner & Principal Investigator.
- "Sostituzioni Funzionali, Organi Artificiali e Trapianti di Organo", "Nuovi poliuretani per ventricoli artificiali e relative tecnologie di preparazione". Istituto Superiore di Sanità, 1996-1998. Role: Partner & Principal Investigator.
- "Bioactive phospholipid-based osteointegrative orthopaedic biomaterials". Brite-Euram, BRPR-CT97-0494. 1997-2001. Role: Partner & Principal Investigator.
- "Design, preparation and characterization of composite tendon and ligaments". Progetto Finalizzato MSTA II, sottoprogetto Biomateriali, Ortopedia. 1997-2001, Role: Partner & Principal Investigator.
- "Improvement of dental implant osteointegration by surface modification and design of composites structures". Progetto Finalizzato MSTA II, sottoprogetto Biomateriali, Odontoiatria. 1997-2001. Role: Coordinator & Principal Investigator.
- "Hybrid bio-artificial ligament and tendon reconstruction devices prepared by combining synthetic and natural materials with tissue engineering techniques". Brite-Euram, BRP-CT98-0653. 1998-2002. Role: Partner & Principal Investigator.
- "Synthesis and Characterization of vitreous substitute". Bilateral research project CNR(Italy)-CSIC (Spain). 1999-2000. Role: Partner & Principal Investigator.
- "Composites hydrogels for orthopaedic applications". P.O.P., Azione5.4.2, Annualità 1998, Regione Campania. 1999-2001. Role: Principal Investigator.
- "Hyaluronic acid – Collagen composite scaffolds for tissue regeneration" Legge Regionale

31.12.94, n.41, 1999. *Role: Principal Investigator.*

- "Biomaterials and related applications", Ministero della Ricerca Scientifica. 2000-2003. *Role: Principal Investigator.*
- "Composite scaffolds for bone tissue engineering". MIUR, FIRB RBAU01N79B. 2001-2005. *Role: Principal Investigator.*
- "Structural materials for biomedical applications". MIUR-Fondo special per lo sviluppo della ricerca di interesse strategico. 2001-2004. *Role: Partner & Principal Investigator.*
- "Novel intervertebral disc prostheses" FP5, G5RD-CT-2000-00267, 2001-2005. *Role: Coordinator & Principal Investigator.*
- "Innovative materials and technologies for a bio-engineered meniscus substitute", FP5, GRD1-CT-2002-00703, 2002-2007. *Role: Partner & Principal Investigator.*
- "Bioactive candies and chew-gums". Indaco S.p.A., Caivano, Napoli. 2005-2006. *Role: Principal Investigator.*
- "Development of composites calcium-phosphates based biomaterials". FinCeramica s.r.l., Faenza. 2005-2006. *Role: Principal Investigator.*
- "A System Approach to Tissue Engineering Processes and Products" (STEPS). FP6- IP, NMP3-CT-2005-500465. 2005-2009. *Role: Partner & WP leader.*
- "Injectable Macrosporous Biomaterials based on Calcium Phosphates Cements for Bone Regeneration". FP6- STREPS, SMARTCaP. NMP3-CT-2005-013912, 01/05/2005-30/04/2008. *Role: Partner & Principal Investigator.*
- "Mechano-active tissue engineering of tendon and heart valves". Bilateral research project IMCB-CNR (Italy) - GIST (South Korea), Ministry of Foreign Affairs. 2007-2010. *Role: Principal Investigator.*
- "Rete Nazionale di Ricerca TissueNet", MUR-FIRB RBPR05RSM2. 2007-2012. *Role: Coordinator & Principal Investigator.*
- "Bioactive chew-gums loaded with vegetal biomolecules". Indaco S.p.A., Caivano, Napoli. 2007. *Role: Principal Investigator.*
- "Novel biofunctional highly porous polymer scaffolds and techniques controlling angiogenesis for the regeneration and repair of the degenerated intervertebral disc" (Disc Regeneration) - CP-IP 213904, 2008-2012. *Role: Coordinator & Principal Investigator.*
- "Scaffolds multifunzionali per la rigenerazione dei tessuti connettivi complessi", MERIT - Medical Research in Italy, MIUR-RBNE08HM7T-001. 2011-2014. *Role: Coordinator & Principal Investigator.*
- "Sviluppo di innovative strutture superassorbenti a basso impatto ambientale destinate ad applicazioni igienico-sanitarie per il benessere, la salute e la cura della persona". MISE - Industria 2015-Bando Made in Italy. MI01_00062 - BAS. 2010-2013. *Role: Principal Investigator.*
- "Sviluppo e caratterizzazione chimica, chimico-fisica e strutturale di prototipi di biomateriali a base di idrossiapatite o derivati calcio-fosfatici destinati alla rigenerazione ossea con particolare riferimento a cementi ossei destinati all'utilizzo nelle procedure chirurgiche a carico della colonna vertebrale, in particolare vertebroplastica e cifoplastica, in seguito a fratture vertebrali di natura traumatica o di natura osteoporotica". FinCeramica s.r.l., Faenza, Italy, 2011-2012. *Role: Principal Investigator.*
- "Sviluppo e caratterizzazione chimica, chimico-fisica e strutturale di biomateriali a base di Acido ialuronico". Fidia Farmaceutici S.p.A. Abano Terme, Italy. 2011-2012. *Role: Principal Investigator.*
- "Nanosistemi avanzati per una nuova oncologia molecolare (NEWTON)". MIUR-RBAP11BYNP. 2011-2015. *Role: Partner & Principal Investigator.*
- "Medicina rigenerativa ed ingegneria tissutale: Approcci innovativi per la riparazione di tessuti danneggiati". PON01_02342 REPAIR, MIUR. 2011-2014. *Role: Partner & Principal Investigator.*
- "Materials and processes BEYOND the NANO-scale (Beyond-Nano)". PONa3_00362, MIUR. 2011-2014. *Role: Partner & Principal Investigator.*
- "Nanostructured hydrogels for controlled release of engineered therapeutic proteins against Parkinson's disease-related neurodegeneration". (NANOBRAIN). Fondazione CARIPLO. 2012-2015. *Role: Partner & Principal Investigator.*

- "Invecchiamento: Innovazioni tecnologiche e molecolari per il miglioramento della salute dell'anziano". PNR-CNR-Aging Program 2012-2014, 2014-2018. *Role: Partner & Principal Investigator.*
- "Bio-hybrid Materials by using Ionic Liquid for Tissue Engineering Applications". Universidad Federal do Rio Grande do Sol, Porto Alegre, Brasil. Program de Ciencia sem Fronteiras - MEC/MCTI/CAPES/CNPq/FAPES N. 71/2013. 2013-2016. *Role: Principal Investigator.*
- "Development of Biomaterial-based Delivery Systems for Ischemic Conditions: An Integrated Pan-European Approach". AngioMatTrain – GA 317304 - FP7-PEOPLE-2012-ITN Marie Curie. 2013-2017. *Role: Partner & Principal Investigator.*
- "Metodologie chimiche innovative per biomateriali intelligenti". PRIN 2010L9SH3K_008. 2013-2016. *Role: Partner & Principal Investigator.*
- Methodology, Work plan and roadmap for cross-cutting KETs activities in Horizon 2020. Tender No. 214/PP/ENT/CIP/12/C/N01C012. 2012-2014. *Role: Partner & Principal Investigator.*
- "A common European approach to the regulatory testing of nanomaterials - NANoREG". CP-IP, NMP.2012.1.3-3. Regulatory testing on nanomaterials.2012-2016. *Role: Partner & Principal Investigator.*
- "Sviluppo di piattaforme scientifiche e tecnologiche e di librerie molecolari ad alto contenuto innovativo applicate a malattie rare e trascurate". Regione Lazio. 2014-2016. *Role: Partner & Principal Investigator.*
- "The Alliance for materials way to the creation of Materials Common House- MATCH". CSA - NMP-33-2014. 2015-2018. *Role: Partner & Principal Investigator.*
- "Nanomaterials for the restauration of works art - NANORESTART". IA - NMP-21-2014., 2015-2018. *Role: Partner & Principal Investigator.*
- "Graphene and perovskite hybrid materials for energy and environment applications" (GRAPE-MAT), Progetto di Grande Rilevanza, MAECI - Programma Esecutivo di Cooperazione Scientifica Italia-Cina, Sector 3: Nanosciences and Advanced Materials. PGR0667. 2016-2018. *Role: Coordinator & Principal Investigator.*
- "Additive Manufacturing e automazione processo per materiali Ibridi e Compositi - AMICO", PNR 2015 – 2020, di cui al Decreto Direttoriale del 13 luglio 2017, n. 1735, MIUR. *Role: Partner & Principal Investigator.*
- "Open Lab - A System of Open Research Facilities" ("Open Lab 2") a valere sulla Quota Premiale FOE 2015 - D.M. 4 agosto 2016 n. 615. *Role: Partner & Principal Investigator.*
- "Campania Imaging Infrastructure for Research in Oncology" – CIRO. Progetti di sviluppo/potenziamento di infrastrutture di ricerca strategica regionali per la lotta alle patologie oncologiche". PNIR 2014 – 2020. Regione Campania. *Role: Partner & Principal Investigator.*
- "A system approach for identifying connective tissue degeneration in diabetic analogues (SAPIENT)". PRIN: PROGETTI DI RICERCA DI RILEVANTE INTERESSE NAZIONALE – Bando 2017 (prot. 2017CBHCWF). *Role: Coordinator & Principal Investigator.*
- "Meniscal functionalised scaffold to prevent knee Osteoarthritis onset after meniscectomy", MEFISTO. H2020-NMBP-TR-IND-2018-2020, NMBP-22-2018, SEP-210491621. *Role: Partner & Principal Investigator.*
- "Nanotecnologie per l'immunoterapia dei tumori" PON ARS01_00906 "TITAN", 2021-2024. *Role: Partner & Principal Investigator.*

AWARDS AND HONOURS

- Archi.Med Award for the most innovative research in biomaterials and medical devices. University of Bari e Fiera del Levante, 24 Febbraio, 2000.
- Fellow of the American Institute for Medical and Biological Engineering (FAIMBE), 1/03/2001
- Fellow of Biomaterials Science and Engineering. (FBSE) of the IUS-BSE (International Union of Societies for Biomaterials Science & Engineering). 1/03/2004.
- Honorary Member, The Romanian Society for Biomaterials, Nov. 2006
- Best Paper 2007 Award, Journal of Materials Science: Materials in Medicine, May 2008.

"Tissue engineered intervertebral disc repair in pig using injectable polymers., (2007) 18:303–308".

- Highlights CNR 2009 as collection of best CNR papers 2008-2009 for a contribution on "innovative scaffolds for bone regeneration".
- Best Paper Award) "BioExtruder: study of the influence of process parameters on PCL scaffolds properties" 4th International Conference on Advanced Research in Virtual and Rapid Prototyping (VR@P), 6th-10th October 2009, Leiria, Portugal.
- Il Saraceno d'oro Award, for the high contribution to a better society. XIV Edizione, Ass. Culturali, Vico Equense, 18 April, 2010.
- APA Distinguished Award, for the high contribution to the development of advanced polymer for health. 19 February 2014. International Conference "Vision & Scenario". APA 2014 - 19- 21 February 2014, New Delhi, India.
- ESB "G. Winter Award", for the high worldwide contribution to the Biomaterials Science. European Society for Biomaterials, March 2015.
- In Top Italian Scientist - Materials & NanoSciences 2016, 12 place. http://via-academy.org/VIA/index.php?title=Top_Italian_Scientists_Materials%26_Nano_Sciences.
- SIB -"Premio alla Carriera", for the high contribution of to the Biomaterials Science. Società Italiana Biomateriali. 13 July 2016, Ischia, Italy.
- Best Abstract Presentation, "Engineering Bioactive Scaffolds for Intervertebral Disc Repair/Regeneration", BioSpine 6th International Congress on Biotechnologies for Spinal Surgery. 26-28 April 2017, Berlin, Germany.
- China-Italy Science and Technology Innovation Cooperation Contribution Award, China-Italy Technology Transfer Center, 14 November 2017, Beijing, China.
- Fellow of the European Alliance for Medical and Biomedical Engineering & Science (2018).
- In Top Italian Scientist - Materials & NanoSciences 2018, 9th place. http://www.topitalianscientists.org/TIS_HTML/Top_Italian_Scientists_Material_Nano_Sciences.htm.
- Member of the European Academy of Sciences (2019).

1. "Biocomposites as Driving Model for Future Therapy". XVII Workshop Pharmabiometallics - Biomet 2018. 16 February 2018, Naples, Italy.
2. "Cell instructive nanofibers based platforms for tissue regeneration/repair", Advanced Functional Polymers for Medicine 2018. May 16-18, 2018. Montpellier, France.
3. "A systems approach to designing personalized structures for tissue engineering". Mexico-Italy Workshop-Trends in Polymeric Materials for Biotechnology Applications. 28 July 2018, Guadalajara, Mexico.
4. "Advanced biomaterials for tissue engineering". Eurasia Conference on Chemical Sciences, 5-8 September 2018, Rome, Italy
5. "Personalized advanced structures for tissue repair/regeneration". The 17th Western China International Fair-2018 China-Italy Biomaterials & New Materials Forum. 24 September 2018, Chengdu, China.
6. "Advanced polymers based scaffolds for tissue engineering". 6th International Conference on Biofoams, 25-28 September 2018, Chengdu, China.
7. "Advanced biomaterials for minimally invasive surgery". Biomaterials and Novel Technologies for Healthcare-Biomah2018. 8-11th October 2018. Frascati, Rome, Italy.
8. "Advanced therapeutic biomaterials for specific tissue repair/regeneration". 30 Years Anniversary of Instituto de Engenharia Biomedica, 14 January 2019. Porto, Portugal.
9. "Smart materials and bio interfaces", University of Lübeck, 28 February 2019. Lübeck, Germany.
10. "Design and modifications of biopolymers, and their use in capsule technology and drug delivery systems". University of Florence, 8 March 2019, Florence, Italy.
11. "Functional biomaterials for minimally invasive surgery". Workshop on NanoBioMedicine in Naples: The next future of theranostics, CNR Area NA, 22 March 2019, Naples, Italy.
12. "Advanced biomaterials and technologies for future health". Azerbaijan-Italy Scientific Seminar on Innovative Polymers, National Academy of Sciences, Institute of Catalysis and Inorganic Chemistry. 8 April 2019, Baku, Azerbaijan.
13. "Sensing Biomaterials and Bio-interfaces". 7th China-Europe Symposium on Biomaterials in Regenerative Medicine (CESB 2019), May 10-13, 2019, Guangzhou, China.
14. "Engineering biomaterials and interfaces for the advancement in healthcare". 2019 Chinese Biomaterials Congress and International Symposium on Advanced Biomaterials (CSBM2019). 22 – 25 August 2019, Dalian, China.
15. "Materiali e tecnologie innovative per la protezione dei beni culturali". La diagnostica per il restauro delle opere d'arte: esperienze, ricerca, innovazione. Università degli Studi Suor Orsola Benincasa. 20-21 luglio 2020. Virtual Conference.
16. "Nano-biocomposites: from tissue repair/regeneration to therapeutic behaviors". NanoInnovation 2020 Conference. 15-18 September 2020, Rome, Italy. Virtual Conference
17. "Personalized polymers templates for tissue regeneration". X Congreso Internacional BIOBIZ Innovación y Economía del Conocimiento en el Ámbito de la Salud y Biotecnología en México. 27-29 October 2020. Virtual Conference.
18. "Natural Based Biosensing Bioinks for Regenerative Medicine". Virtual International Workshop on Biosensing with Emphasis on Nanomanufacturing. 8-9 December 2020. Virtual Conference.
19. "Engineering biomaterials and interfaces for the advancement in healthcare" Queen Mary University of London. 7 April 2021. London, UK. Virtual Lecture.
20. "Sustainability and Polymers". Workshop on Sustainability and Polymers. 1-3 September 2021, Lampedusa, Agrigento, Italy
21. "Nano-biocomposites: from tissue repair/regeneration to therapeutic behaviors". 31st Conference of the European Society for Biomaterials, ESB-BIOMAT Joint Symposium in tribute to Charle Baquey: What Will be the Future Biomaterials Implanted in Humans? 5-9 September, 2021, Porto, Portugal.
22. "Biomaterials for osteoarticular tissues regeneration: from basic research to the clinics". 47 ESAO Congress. Symposium: Tissue Engineering V: Biomaterials, stem cells and enabling technologies for osteoarticular tissue regeneration. 7-11 September 2021. London, UK. Virtual Conference.

23. "Injectable Bioactive Biomaterials for Bone Repair/Regeneration". 29th Annual Meeting European Orthopaedic Research Society. 15-17 September 2021, Rome, Italy
24. "Engineering Biomaterials and Bio-Interfaces". NanolInnovation 2021 Conference. Symposium: Development of Micro and Nanotechnologies for Predictivity, Diagnosis, Therapy and Regenerative Treatments of Pathological of Bone and Osteo-Articular Alterations. 21-24 September 2021, Rome, Italy.
25. "Advanced Biomaterials and Interfaces". XI Latin American Congress of Artificial Organs and Biomaterials. Symposium A: Biomaterials for Biological Applications. 8 December, 2021. Virtual Conference.

ADDITIONAL INFORMATION

Il D.Lgs. 30/6/2003, n. 196 "*Codice in materia di protezione dei dati personali*" regola il trattamento dei dati personali, con particolare riferimento alla riservatezza, all'identità personale e al diritto di protezione dei dati personali; l'interessato deve essere previamente informato del trattamento.

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Signature
Luigi Ambrosio

