

**EUROPASS  
CURRICULUM VITAE  
EUROPEAN FORMAT**



**PERSONAL INFORMATION**

|                           |                       |
|---------------------------|-----------------------|
| <b>Name</b>               | <b>LUIGI AMBROSIO</b> |
| <b>Office Address</b>     |                       |
| <b>Telephone (Office)</b> |                       |
| <b>Mobile phone</b>       |                       |
| <b>E-mail</b>             |                       |
| <b>Nationality</b>        | <b>Italian</b>        |
| <b>Date of birth</b>      |                       |
| <b>Office</b>             |                       |
| <b>Occupation</b>         |                       |

**EDUCATION AND TRAINING**

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

**WORK EXPERIENCE**

|                                 |                                                                                                                                                         |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>31/12/2018 - Today</b>       | Director at Institute of Polymer, Composites & Biomaterials, (IPCB-CNR), National Research Council, Naples, Italy                                       |
| <b>30/03/2017 – Today</b>       | 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).         |
| <b>18/11/2012–17/11/2016</b>    | Director of Chemical Science & Materials Technology Department, National Research Council of Italy. Rome, Italy.                                        |
| <b>01/04/2012 – 19/11/2012</b>  | Member and Coordinator of "Comitato Ordinatore" of Chemical Science & Materials Technology Department, National Research Council of Italy, Rome, Italy. |
| <b>01/04/2011 to 31/03/2012</b> | Acting Director of Molecular Design Department, National Research Council of Italy. Rome, Italy.                                                        |

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

**PERSONAL SKILLS AND EXPERTISES**

**MOTHER TONGUE** ITALIAN

**OTHER LANGUAGES**

|                  |                |
|------------------|----------------|
|                  | <b>ENGLISH</b> |
| • 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 EXPERTISES**

- 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-Consorzio 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-Consorzio 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. (Sept.2017 – Today).
- 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 Polymer International Journal
- 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.

## 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** - ORCID ID: [orcid.org/40-0002-8367-2405](https://orcid.org/40-0002-8367-2405)

**Google Scholar**

**H-Index:** 73

**Citing Total** 15.260

**i10-index** 285

## Books and Articles

Publications include over 300 papers on international scientific journals and book, 25 patents, 5 books, 79 Book Chapters. over 400 presentations at international and national conferences and over 170 invited lectures. From 2015, the list of publications is reported below:

1. V. Guarino, M. Galizia, M.A. Alvarez Perez, G. Mensitieri, **L. Ambrosio**. "Improving surface and transport properties of macroporous hydrogels for bone regeneration". *Journal of Biomedical Materials Research Part A*, 2015, 3, 103, 1095-1105.
2. L.R. Pires, D.N. Rocha, **L. Ambrosio**, A.P. Pêgo. "The role of the surface on microglia function: implications for central nervous system tissue engineering". *Journal of the Royal Society Interface*, 2015,12, 20141224.
3. A. Borzacchiello, L. Russo, B. M. Malle, K. Schwach-Abdellaoui, **L. Ambrosio**, "Hyaluronic Acid based hydrogels for regenerative medicine applications". *BioMed Research International*, 2015,1-12.
4. V. Guarino, V. Cirillo, R. Altobelli, **L. Ambrosio**. "Polymer based platforms by electric field assisted techniques for tissue engineering and cancer therapy". *Expert Review of Medical Devices*, 2015, 12(1), 113-29.
5. F. Veronesi, V. Guarino, M. G. Raucci, M. Sandri, A. Tampieri, **L. Ambrosio**, M. Fini, "Bioactivity and bone healing properties of biomimetic porous composite scaffold: in vitro and in vivo studies". *Journal of Biomedical Materials Research Part A*, 2015, 103(9), 2932-41.
6. L. Russo, T. Russo, C. Battocchio, F. Taraballi, A. Gloria, U. D'Amora, R. De Santis, G. Polzonetti, F. Nicotra, **L. Ambrosio**, L. Cipolla, "Galactose grafting on poly ( $\epsilon$ -caprolactone) substrates for tissue engineering: a preliminary study". *Carbohydrate Research*, 2015, 405, 39-46.
7. V. Guarino, R. Altobelli, V. Cirillo, A. Cummaro, **L. Ambrosio**. "Additive electrospraying: a new route to process electrospun scaffolds for controlled molecular release". *Polymers for Advanced Technologies*, 2015, 26, 1359-1369.
8. R. De Santis, A. Russo, A. Gloria, U. D'Amora, T. Russo, S. Panseri, M. Sandri, A.

- Tampieri, M. Marcacci, V. A. Dediu, C. J. Wilde, **L. Ambrosio**, "Towards the Design of 3D Fiber-Deposited Poly(-caprolactone)/Iron-Doped Hydroxyapatite Nanocomposite Magnetic Scaffolds for Bone Regeneration". *Journal of Biomedical Nanotechnology*, 2015, 11(7), 1236-1246.
9. V. Venditto, M. Pellegrino, R. Califano, G. Guerra, C. Daniel, **L. Ambrosio**, A. Borriello, "Monolithic Polymeric aerogels with VOCs sorbent nanoporous crystalline and water sorbent amorphous phases". *ACS Applied Materials & Interfaces*, 2015, 7, 1318-1326.
  10. M.G. Raucci, D. Giugliano, M.A. Alvarez-Perez, **L. Ambrosio**, "Effects on growth and osteogenic differentiation of mesenchymal stem cells by the strontium-added sol-gel hydroxyapatite gel materials". *Journal of Materials Science: Materials in Medicine*, 2015, 2, 26, 1-11.
  11. T. Russo, M. Tunesi, C. Giordano, A. Gloria, **L. Ambrosio**, "Hydrogels for central nervous system therapeutic strategies". *Proc IMech Part H: J. Engineering in Medicine*, 2015, 229(12), 905-916.
  12. M.G. Raucci, M.A. Alvarez-Perez, C. Demitri, D. Giugliano, V. De Benedictis, A. Sannino, **L. Ambrosio**, "Effect of citric acid crosslinking cellulose-based hydrogels on osteogenic differentiation". *J Biomed Mater Res A*. 2015, 103(6), 2045-56.
  13. R. De Santis, A. Gloria, T. Russo, U. D'Amora, D.F. Lopes Rodrigues, F. Colella, D. Ronca, **L. Ambrosio**, "An analysis on the inserts for piezoelectric bone surgery: the effect of cutting and sterilization processes". *International Journal of Engineering and Innovative Technology*, 2015, 4, 174-180.
  14. V. Guarino, T. Caputo, R. Altobelli, **L. Ambrosio**. "Degradation properties and metabolic activity of alginate and chitosan polyelectrolytes for drug delivery and tissue engineering applications". *AIMS Materials Science*, 2015, 2(4): 497-501.
  15. R. Tsaryk, A. Gloria, T. Russo, L. Anspach, R. De Santis, S. Ghanaati, R.E. Unger, **L. Ambrosio**, C.J. Kirkpatrick, "Collagen-low molecular weight hyaluronic acid semi-interpenetrating network loaded with gelatin microspheres for cell and growth factor delivery for nucleus pulposus regeneration". *Acta Biomaterialia*, 2015, 20, 10-21.
  16. F. Paladini, M. Pollini, A. Sannino, **L. Ambrosio**, "Metal-based antibacterial substrates for biomedical applications". *Biomacromolecules*. doi.5b00773, 2015.
  17. R. De Santis, U. D'Amora, A. Russo, A. Ronca, A. Gloria, **L. Ambrosio**, "3D fibre deposition and stereolithography techniques for the design of multifunctional nanocomposite magnetic scaffolds". *J. Materials Science: Materials in Medicine*, 2015, 26, 3-9.
  18. M. Biondi, A. Borzacchiello, L. Mayol, **L. Ambrosio**, "Nanoparticle-Integrated Hydrogels as Multifunctional Composite Materials for Biomedical Applications". *Gels*, 2015, 1(2), 162-178.
  19. E. Jäger, R.K. Donato, M. Perchacz, A. Jäger, F. Surman, A. Höcherl, R. Konefal, K. Donato, C.G. Venturini, V. Bergamo, H. S. Schrekker, A. Meneghello Fuentesfria, M. G. Raucci, **L. Ambrosio**, P. Stepanek, "Biocompatible succinic acid-based polyesters for potential biomedical applications: fungal biofilm inhibition and mesenchymal stem cells growth". *RSC Advances* 2015, 5, 85756-85766.
  20. K.Z. Donato, R. K. Donato, M. Lavorgna, **L. Ambrosio**, L. Matějka, R.S. Mauler, H. S. Schrekker, "Ionic liquids as dynamic templating agents for sol-gel silica systems: synergistic anion and cation effect on the silica structured growth". *Journal of Sol-Gel Science and Technology*, 2015, 76(2), 414-427.
  21. V. Guarino, V. Cirillo, **L. Ambrosio**, "Bicomponent electrospun scaffolds to design ECM tissue analogues", *Expert Review Medical Devices*, 2016, 13(1), 83-102.
  22. L.R. Pires, V. Guarino, M.J. Oliveira, C.C. Ribeiro, M.A. Barbosa, **L. Ambrosio**, A. P. Pêgo, "Ibuprofen-loaded poly(trimethylene carbonate-co-e-caprolactone) electrospun fibres for nerve regeneration." *Journal of Tissue Engineering and Regenerative Medicine*, 2016, 10(3), E154-E166.
  23. S. Giarra, C. Serri, L. Russo, S. Zeppetelli, G. De Rosa, A. Borzacchiello, M. Biondi, **L. Ambrosio**, L. Mayol, "Spontaneous Arrangement of a Tumor Targeting Hyaluronic Acid Shell on Irinotecan Loaded PLGA Nanoparticles". *Carbohydrate Polymers*, 2016, 140, 400-407.
  24. M. G. Raucci, M. Alvarez-Perez, D. Giugliano, S. Zeppetelli, **L. Ambrosio**. "Properties of Carbon Nanotubes dispersed Sr-hydroxyapatite injectable material for bone defects". *Regenerative Biomaterials*, 2016, 3, 13-23.
  25. V. Guarino, R. Altobelli, **L. Ambrosio**. "Chitosan Microgels and Nanoparticles Via

- Electrofluidodynamic Techniques for Biomedical Applications". *Gels* 2016, 2(1), 2.
26. V. Guarino, F. Veronesi, M. Marrese, G. Giavaresi, M. Sandri, A. Tampieri, M. Fini, **L. Ambrosio**. "Needle-like MgCHA crystals in PCL composite scaffolds for bone regeneration". *Biomedical Materials*, 2016, 11, 15-18.
27. C. Demitri, M.G. Raucci, A. Giuri, V.M. De Benedictis, D. Giugliano, P. Calcagnile, A. Sannino, **L. Ambrosio**. "Cellulose based scaffolds for bone tissue engineering applications: Assessment of hMSCs proliferation and differentiation". *Journal of Biomedical Materials Research Part A*, 2016, 104A, 726-733.
28. A. Salerno, V. Guarino, O. Oliviero, **L. Ambrosio**, C. Domingo, "Bio-safe processing of polylactic-co-caprolactone and polylactic acid blends to fabricate fibrous porous scaffolds for in vitro mesenchymal stem cells adhesion and proliferation". *Materials Science and Engineering: C*, 2016, 63, 512-521.
29. N. Yan, F. Capezzuto, M. Lavorgna, G. Buonocore, F. Tescione, H. Xia, **L. Ambrosio**. "Borate cross-linked graphene oxide-chitosan as robust and high gas barrier films". *Nanoscale*, 2016, 8, 10783-10791.
30. V. Guarino, S. Zuppolini, A. Borriello, **L. Ambrosio**, "Electro-Active Polymers (EAPs): a promising route to design bio-organic/bioinspired platforms with on demand functionalities". *Polymers* 2016; 8(5), 185.
31. M. Fernández-Gutiérrez, S. Fusco, L. Mayol, J. San Román, A. Borzacchiello, **L. Ambrosio**, "Stimuli-responsive chitosan/poly (N-isopropylacrylamide) semi-interpenetrating polymer networks: effect of pH and temperature on their rheological and swelling properties". *Journal of Materials Science: Materials in Medicine*, 2016, 27, 109, 1-8.
32. V. Guarino, **L. Ambrosio**, "Electrofluidodynamics: exploring a new toolbox to design biomaterials for tissue regeneration and degeneration". *Nanomedicine*, 2016, 11(12), 1515-18.
33. V. D'Antò, M.G. Raucci, V. Guarino, S. Martina, R. Valletta, **L. Ambrosio**. "Behaviour of human mesenchymal stem cells on chemically synthesized HA-PCL scaffolds for hard tissue regeneration". *Journal of Tissue Engineering and Regenerative Medicine*, 2016, 10, E147–E154.
34. D. Altamura, S.G. Pastore, M.G. Raucci, D. Siliqi, F. De Pascalis, M. Nacucchi, **L. Ambrosio**, C. Giannini, "scanning small-and wide-angle x-ray scattering microscopy selectively probes ha content in gelatin/hydroxyapatite scaffolds for osteochondral defect repair". *ACS Applied Materials & Interfaces*, 2016, 8(13), 8728-36.
35. E. Bischoff, D.A. Simon, H.S. Schrekker, M. Lavorgna, **L. Ambrosio**, S.A. Liberman, R.S. Mauler, "Ionic liquid tailored interfaces in halloysite nanotube/heterophasic ethylene-propylene copolymer nanocomposites with enhanced mechanical properties". *European Polymer Journal*, 2016, 82, 82–92.
36. C. M. L. Schrekker, Y.C. A. Sokolovicz, M.G. Raucci, B. S. Selukar, J.S. Klitzke, William Lopes, Claudio A. M. Leal, Igor O. P. de Souza, G. B. Galland, J. H. Z. dos Santos, Raquel S. Mauler, M. Kol, S. Dagorne, **L. Ambrosio**, M.L. Teixeira, Jonder Morais, Richard Landers, Alexandre M. Fuentesfria, H.S. Schrekker, "Multitask Imidazolium Salt Additives for Innovative Poly(l-lactide) Biomaterials: Morphology Control, *Candida* spp. Biofilm Inhibition, Human Mesenchymal Stem Cell Biocompatibility, and Skin Tolerance". *ACS-Applied Materials & Interfaces*. 2016, 8 (33), 21163–21176.
37. R. Altobelli, V. Guarino, **L. Ambrosio**. "Electrofluidodynamics: Micro and nanocarriers for cell and molecular therapies". *Process Biochemistry*, 51, (2016) 2143–2154.
38. V. Guarino, M. D'Albore, R. Altobelli, **L. Ambrosio**, "Polymer bioprocessing to fabricate 3D scaffolds for tissue engineering". *International Polymer Processing*, 2016, 31, 587-597.
39. R. Avolio, M. D'Albore, V. Guarino, G. Gentile, M. Cocca, S. Zeppetelli, M.E. Errico, M. Avella, **L. Ambrosio**, "Pure titanium particle loaded nanocomposites: study on the polymer/filler interface and HMSC biocompatibility". *Journal of Materials Science: Materials in Medicine*, 2016, 27, 153-157.
40. K.Z. Donato, M. Lavorgna, R.K. Donato, M. G. Raucci, G. G. Buonocore, **L. Ambrosio**, H.S. Schrekker, R. S. Mauler, "High Amorphous vinyl alcohol-silica bionanocomposites: tuning interface interactions with ionic liquids". *ACS Sustainable Chemistry & Engineering*, 2016,5(1), 1094-1105.
41. M. Marrese, V. Guarino and **L. Ambrosio**, "Atomic Force Microscopy: A powerful tool to address scaffold design in tissue engineering". *Journal of Functional Biomaterials*, 2017, 8, 7. doi:10.3390/jfb8010007.

42. E. Bischoff, G.P.O. Gonçalves, D.A. Simon, H.S. Schrekker, M. Lavorgna, **L. Ambrosio**, S.A. Liberman, R.S. Mauler, "Unrevealing the effect of different dispersion agents on the properties of ethylene-propylene copolymer/halloysite nanocomposites". *Materials & Design*, 2017, 131, 232-241.
43. M.G. Raucci, D. Giugliano, A. Longo, S. Zeppetelli, G. Carotenuto, **L. Ambrosio**. "Comparative facile methods for preparing graphene oxide-hydroxyapatite for bone tissue engineering". *Journal of Tissue Engineering and Regenerative Medicine*. 2017, 11(8), 2204-2216.
44. M. A. Szychlinska, M. J. Stoddart, Ugo D'Amora, **L. Ambrosio**, M. Alini, G. Musumeci, "Mesenchymal stem cell-based cartilage regeneration approach and cell senescence: can we manipulate cell aging and function?", *Tissue Engineering Part B: Reviews*, 2017, 23(6), 529-539.
45. I. Fasolino, V. Guarino, V. Cirillo, **L. Ambrosio**, "5-Azacytidine-mediated hMSC behavior on electrospun scaffolds for skeletal muscle regeneration". *Journal of Biomedical Materials Research Part A*, 2017, 105A, 2551-2561.
46. U. D'Amora, M. D'Este, D. Eglin, F. Safari, C.M Sprecher, A. Gloria, R. De Santis, Mauro Alini, **L. Ambrosio**, "Collagen density gradient on 3D printed poly ( $\epsilon$ -caprolactone) scaffolds for interface tissue engineering". *Journal of Tissue Engineering and Regenerative Medicine*. 2017, 12, 1-9.
47. D.A. Simon, E. Bischoff, G.G. Buonocore, P. Cerruti, M.G. Raucci, H. Xia, H.S. Schrekker, M. Lavorgna, **L. Ambrosio**, R. S. Mauler, "Graphene-based masterbatch obtained via modified polyvinyl alcohol liquid-shear exfoliation and its application in enhanced polymer composites". *Materials & Design*, 2017, 134, 103-110.
48. A. Papa, V. Guarino, V. Cirillo, O. Oliviero, **L. Ambrosio**. "Optimization of bicomponent electrospun fibers for therapeutic use: post-treatments to improve chemical and biological stability". *Journal of Functional Biomaterials*, 2017, 8(4),47.
49. G. Ausanio, V. Iannotti, V. Guarino, **L. Ambrosio**, L. Lanotte. "Magneto-piezoresistive elastomers optimization in prospect of NEMS applications". *Sensors and Actuators A*, 2017, 265, 253-260.
50. I. Fasolino, V. Guarino, M. Marrese, V. Cirillo, M. Vallifuoco, M. L. Tamma, V. Vassallo, A. Bracco, F. Calise, **L. Ambrosio**. "HepG2 and human healthy hepatocyte in vitro culture and co-culture in PCL electrospun platforms". *Biomedical Materials*, 2017, 13(1).
51. S. Zuppolini, A. Borriello, M. Pellegrino, V. Venditto, **L. Ambrosio**, L. Nicolais. "Potential contact and intraocular lenses based on hydrophilic/hydrophobic sulfonated syndiotactic polystyrene membranes". *Journal of King Saud University-Science*, 2017, 29 (4), 487-493.
52. U. D'Amora, T. Russo, A. Gloria, V. Riveccio, V. D'Antò, G. Negri, **L. Ambrosio**, R. De Santis. "3D additive-manufactured nanocomposite magnetic scaffolds: Effect of the application mode of a time-dependent magnetic field on hMSCs behavior". *Bioactive Materials* 2017, 2, 138-145.
53. I. Fasolino, I. Bonadies, **L. Ambrosio**, M. G. Raucci, C. Carfagna, F. M. Caso, Francesca Cimino, Alessandro Pezzella, "Eumelanin Coated PLA Electrospun Micro Fibers as Bioinspired Cradle for SH-SY5Y Neuroblastoma Cells Growth and Maturation". *ACS Applied Materials & Interfaces*, 2017, 9(46), 70-76.
54. A. Ronca, F. Maiullari, M. Milan, V. Pace, A. Gloria, R. Rizzi, R. De Santis, **L. Ambrosio**, "Surface functionalization of acrylic based photocrosslinkable resin for 3D printing applications". *Bioactive Materials*, 2017, 2, 131-137.
55. A. Ronca, **L. Ambrosio**, "Polymer based scaffolds for tissue regeneration by Stereolithography". *Advanced Biomaterials and Devices in Medicine*, 2017, 4, 1-15.
56. D. Lepore, R. De Santis, M. M. Pagliara, A. Gloria, O. Oliviero, C. Nucci, G. Improta, M. Triassi, **L. Ambrosio**, "Effect of topical antiinflammatory drugs on mechanical behavior of rabbit cornea". *Journal of Applied Biomaterials & Functional Materials*. 2017, 15(2), 142-148.
57. V. Guarino, **L. Ambrosio**. "Exploring Process Technologies to Fabricate Fibrous Scaffolds and Bio-Textiles for Biomedical Applications". *Advances in Science & Technology*, 2017, 100, 31-37.
58. C. Demitri, A. Giuri, V. Maria De Benedictis, M.G. Raucci, D. Giugliano, A. Sannino, **L. Ambrosio**, "Microwave-induced porosity and bioactivation of chitosan-PEGDA scaffolds: morphology, mechanical properties and osteogenic differentiation". *Journal of Tissue Engineering and Regenerative Medicine*, 2017, 11(1), 86-98.

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- "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.*
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- "Biomaterials and related applications", Ministero della Ricerca Scientifica. 2000-2003. *Role: Principal Investigator.*
- "Composite scaffolds fo 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 Frontieras - 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 restoration 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.*

#### **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](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](http://www.topitalianscientists.org/TIS_HTML/Top_Italian_Scientists_Material_Nano_Sciences.htm).

## Invited Speaker

From 2015, Invited lectures are listed below:

1. "Gli Enti di Ricerca a supporto delle PMI per l'utilizzo delle risorse europee", *I Fondi Strutturali per la Regione Lombardia: FESR e FSE*. Campus Polo Territoriale di Lecco, Politecnico di Milano, 17 March 2015, Italy.
2. "Riciclabilità e innovazione degli imballaggi in plastica: il ruolo della ricerca", *Un Cluster d'Eccellenza Nazionale: il Riciclo della Plastica*. Palazzo Rospigliosi, 1 Aprile 2015, Roma, Italy.
3. "Internazionalizzazione della ricerca, strumenti di creatività ed efficienza della ricerca", *MIT Technology Review, Edizione Italiana -Research, Innovation, Entrepreneurship Forum*. 20-21 Aprile 2015, Padua, Italy.
4. "Designing complex biomaterials for the skeletal system", *International Symposium "Life at the Interface", Centenary of the Institute of Pathology in Mainz (1914-2014)*. 21-22 May, 2015, Mainz, Germany.
5. "Biomaterials & scaffolds for bone regeneration", *Biomaterials and Regenerative Medicine for the Musculoskeletal System - III ISMuLT Scientific Workshop*. Istituto Ortopedico Rizzoli, 24 Maggio 2015, Bologna, Italy.
6. "Composite biomaterials for regenerative medicine", *Annual Meeting 2015*, Centre for Regenerative Medicine, University of Brighton, 1 July 2015, Brighton, U.K.
7. "Advanced biomaterials for skeletal tissue repair/regeneration", *The Second CIRP Conference on Biomanufacturing*. Manchester Conference Centre, July 29-31 2015, United Kingdom.
8. "Advanced biomaterials for skeletal tissue repair/regeneration" *AO Foundation Transforming Surgery-Changing Lives*. 4 August 2015, Davos, Switzerland.
9. "Nanostructured platforms for skeletal tissue regeneration", *Nanoforum, XI Edition*. Politecnico di Milano, Campus Bovisa, 29 September - 2 October, Milan, Italy.
10. "European view and experience of interdisciplinarity", *European Preparatory Meeting for the Global Research Council 2016 Summit*. National Research Council of Italy, 5-6 November 2015, Rome, Italy.
11. "Advanced biomaterials & technologies for skeletal tissue regeneration" *10th Anniversary Conference of the Hellenic Society for Biomaterials*. 26-28 November 2015, Athens, Greece.
12. "Advanced materials & technologies for conservation and preservation of cultural heritage". *Science and Innovation for the study and Conservation of Works of Art Workshop*. UNSAM Exhibition Centre, 1-2 December 2015, Buenos Aires, Argentina.
13. "L'Ingegneria dei tessuti: dai biomateriali alla stampa tridimensionale nei tessuti scheletrici", *2° Workshop su Riabilitazione Rigenenrativa e Tissue Engineering: dai Nuovi Materiali al Bioprinting. Come cambierà l'approccio riabilitativo*. U.O. Fondazione San Raffaele, 10 December 2015, Ceglie, Brindisi, Italy.
14. "Advanced materials and nanotechnology", *Italy-USA Cooperation on Science and Technology, 12th Joint Commission Meeting*, Italian Ministry of Foreign Affairs and International Cooperation, 14 January 2016, Rome, Italy.
15. "Advanced biomaterials and technologies for tissue regeneration", *Sichuan University*, 26 April 2016 Chengdu, China.
16. "A system approach to the repair/regeneration of IVD compartments", *Settimana della Ricerca UCBM. New trend in advanced therapies for intervertebral disc regeneration workshop*. Università Campus Bio-medico, 4 July 2016, Rome, Italy.
17. "L'impatto futuro dei materiali avanzati sulla società", *Innovation Forum-Driving Change for US and Italian Innovation Systems: finding the better ways to learn from each other*. Regione Friuli Venezia Giulia, 28 July 2016, Trieste, Italy.
18. "Advanced technologies to design cell instructive platforms for tissue repair/regeneration", *Asian Polymer Association - Intenational Conference on Advanced Polymers, Biomaterials, Bioengineering and Nano-Drug Delivery*. 5 – 7 September 2016, Flic-en-Flac, Mauritius.
19. "Smart polymer based templates and additive technologies for tissue regeneration", *Chimica Fisica 2016 - XLIV Congresso della Divisione di Chimica Fisica della SCI*. 20-23 September 2016, Napoli, Italy.
20. "Integrazione delle conoscenze per una innovazione dinamica della società moderna", *79° Congresso Nazionale SIMLII (Società Italiana di Medicina del Lavoro ed Igiene*



- Industriale), 21-23 September 2016. Rome, Italy.
21. "New frontiers in rapid prototyping of nanocomposites for tissue engineering". *NanolInnovation 2016 Conference & Exhibition*, 20-23 September 2016, Rome, Italy.
  22. "Multifunctional templates and advanced technologies for tissue regeneration", *Nanomedicine 2016*, 21-23 September 2016, Viterbo, Italy.
  23. "Advanced biomaterials and technologies for tissue repair/regeneration", *Nanoscience & Nanotechnology 2016*, 21-29 September 2016, Frascati, Italy.
  24. "Advanced structures and technologies for tissue regeneration", *1st Biennial Conference on: Biomaterials for Tissue and Genetic Engineering and the Role of Nanotechnology*, 17-20 October 2016. Rome, Italy.
  25. "Polymer based advanced materials and additive technologies", *Virginia Polytechnic Institute and State University*, 17 November 2016. Blacksburg, Virginia, USA.
  26. "Biomaterials in vertebral surgery: past, present and future", *Biomateriali e Biotecnologie in Chirurgia Vertebrale*. Istituto Ortopedico Rizzoli, 17 February 2017, Bologna, Italy.
  27. "Engineering bioactive scaffolds for intervertebral disc repair/regeneration", *BioSpine 6<sup>th</sup> International Congress on Biotechnologies for Spinal Surgery*. 26-28 April 2017, Berlin, Germany.
  28. "Nanotechnologies and biomaterials for delivery of nutraceuticals", *International Conference on Deciphering the biomolecular mechanisms of gut microbiome action on metabolism. Dietary implications, new functional foods and therapeutic drugs*. 3-5 May 2017, Naples, Italy.
  29. "Biomaterials and mesenchymal stem cells", *VII Meeting on Stem Cells Research Italy*. 25-27 May 2017, Chieti, Italy.
  30. "Advanced biomaterials and technology to design cell instructive platforms for tissue repair/regeneration", *CINVESTAV Unidad Queretaro*, 13 June 2017, Queretaro, Mexico.
  31. Biomaterials and additive technologies for tissue repair/regeneration", *NanoMaterials and BioMaterials for the Next Decade*. July, 5 - 7, 2017, Pantelleria, Italy.
  32. "Engineering biopolymers for the advancement in healthcare". *41<sup>st</sup> Anniversary, CIATEJ Unidad Zapopan*. 25 August 2017, Zapopan, Jalisco, Mexico.
  33. "Engineering biocomposites for the advancement in healthcare". G. Winter Award Lecture – *28<sup>th</sup> Annual Conference of the European Society for Biomaterials*, 4 – 8 September 2017, Athens, Greece.
  34. "Biocomposites and additive technologies for the advancement in healthcare". *National Engineering Research Center for Biomaterials, Sichuan University*. 29 September, 2017, Chengdu, China.
  35. "Smart polymer based biomaterials and additive technologies for bone tissue repair/regeneration". *School of Nanomedicine, Polytechnic University of Bari*, 11-13 Ottobre 2017, Bari, Italy.
  36. "Biomateriali Funzionali e Tecnologie Additive per la Riparazione/Rigenerazione del Tessuto Osseo". *Biomateriali e Impianti in Ortopedia: Dalla Ricerca al Paziente*, Università Cattolica del Sacro Cuore, 06/12/2017, Rome, Italy.
  37. "Biocomposites as Driving Model for Future Therapy". *XVII Workshop Pharmabiometallics - Biomet 2018*. 16 February 2018, Naples, Italy.
  38. "Cell instructive nanofibers based platforms for tissue regeneration/repair", *Advanced Functional Polymers for Medicine 2018*. May 16-18, 2018. Montpellier, France.
  39. "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.
  40. "Advanced biomaterials for tissue engineering". *Eurasia Conference on Chemical Sciences*, 5-8 September 2018, Rome, Italy
  41. "Personalized advanced structures for tissue repair/regeneration". *The 17<sup>th</sup> Western China International Fair-2018 China-Italy Biomaterials & New Materials Forum*. 24 September 2018, Chengdu, China.
  42. "Advanced polymers based scaffolds for tissue engineering". *6<sup>th</sup> International Conference on Biofoams*, 25-28 September 2018, Chengdu, China.
  43. "Advanced biomaterials for minimally invasive surgery". *Biomaterials and Novel Technologies for Healthcare-Biomah2018*. 8-11th October 2018. Frascati, Rome, Italy.
  44. "Advanced therapeutic biomaterials for specific tissue repair/regeneration". *30 Years*

- Anniversary of Instituto de Engenharia Biomedica*, 14 January 2019. Porto, Portugal.
45. "Smart materials and bio interfaces", *University of Lübeck*, 28 February 2019. Lübeck, Germany.
  46. "Design and modifications of biopolymers, and their use in capsule technology and drug delivery systems". *University of Florence*, 8 March 2019, Florence, Italy.
  47. "Functional biomaterials for minimally invasive surgery". *Workshop on NanoBioMedicine in Naples: The next future of theranostics*, CNR Area NA, 22 March 2019, Naples, Italy.
  48. "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.
  49. "Sensing Biomaterials and Bio-interfaces". *7th China-Europe Symposium on Biomaterials in Regenerative Medicine (CESB 2019)*, May 10-13, 2019 Guangzhou, China.

## **ADDITIONAL INFORMATION**