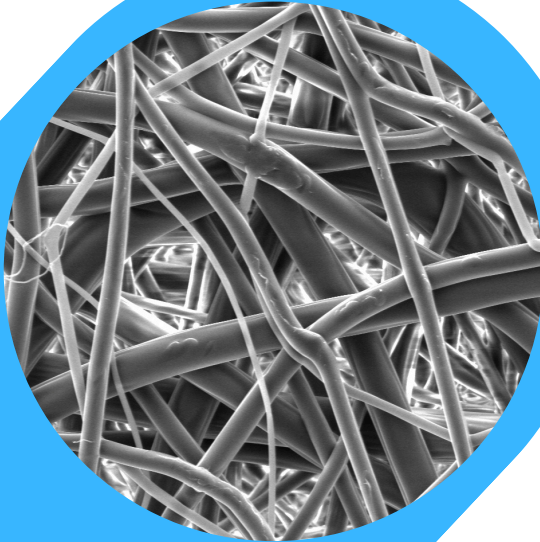


Scientific & Organizing Committee

Prof. Brigida Bochicchio, University of Basilicata
Prof. Antonietta Pepe, University of Basilicata
Prof. Antonio Laezza, University of Basilicata
Prof. Grazia M.L. Messina, University of Catania
Prof. Giovanna Calabrese, University of Messina
Prof. Giovanna De Luca, University of Messina
Dr. Licia Viggiani, University of Basilicata



PhD SUMMERSCHOOL "Biomaterials Development for Medical Devices: From Bench to Market"



INFO & CONTACTS

c/o University of Basilicata
Via dell'Ateneo Lucano, 10
85100 Potenza
tel. +39 0971 205481

email: best.dress25@gmail.com
website: <https://sites.google.com/view/bestdress25/home/summerschool>

June 12-14, 2025

University of Basilicata, Via Dell'Ateneo Lucano, 10
Potenza, ITALY



UniMe
1548



UNIVERSITÀ
DEGLI STUDI DELLA
BASILICATA



UNIVERSITÀ
degli STUDI
di CATANIA

PROGRAM

12 JUNE (Aula A11)

10:00 Registration

12:00 Opening Ceremony - Prof. B. Bochicchio, Prof. A. Pepe

12:30 Lunch

Session 1- Biomaterials for tissue engineering

(Chairpersons: Profs. Giovanna Calabrese, Giovanna De Luca)

14:00 IL 1 - Prof. Luigi Ambrosio, (IPCB-CNR, Naples, IT)

"Bioactive Biomaterials for Enhancing Bone Regeneration"

15:00 IL 2 - Prof. Antonella Motta, (University of Trento, Trento, IT)

"Insights on the direction and future of biomaterials in sustainable regenerative medicine"

16:20 O1 - Serena Munaò (University of Messina, IT)

"Osteogenic differentiation stimulation of osteoprogenitor cells on 3D printed bioactive scaffold"

16:20-17.10 Coffee break with Poster Session

17:10 IL 3 - Dr. Filippo Naso, (Biocompatibility Innovation Srl, Este, IT)

"Title to be defined"

18:10 O2- Stefano Putaggio (University of Messina, Messina, IT)

"Evaluation of the effect of PVA-based bioplastics and functionalized with baicalein on human erythrocytes "

13 JUNE (Aula A17)

Session 2- Engineering Functionalization of Biomaterials

(Chairpersons: Profs. Antonio Laezza, Grazia M.L. Messina)

9:00 IL4 - Prof. Giovanni Marletta, (University of Catania, Catania, IT)

"The key role of interfaces"

10:00 O3 - Dr. Paola Campione, (University of Catania, Catania, IT)

"Biomimetic electrospun scaffold as sustainable wound dressing materials "

10:20 O4 - Dr. Luana Vittoria Bauso (University of Messina, Messina, IT)

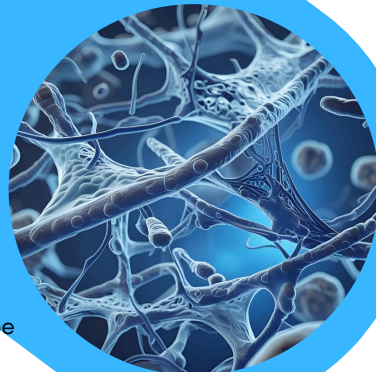
"Application of a neuroprosthetic conjugated polymer-based device to improve the spontaneous neuronal differentiation of SH-SY5Y cells. "

10:40 Coffee break with Poster Session

11:30 IL5 - Dr. Margherita Vara, "Analytical Method Validation: from development to routine use in a Quality Control Laboratory", (Altergon Italia srl, Morra de Santis, IT)

12:00 IL6 Dr. Sara Vinciguerra, "Quality Control Laboratory Role in a Pharmaceutical Industry" (Altergon Italia srl, Morra de Santis, IT)

12:30 IL7 - Prof. Grazia Maria Lucia Messina, (University of Catania, Catania, IT)
"Smart active biointerfaces"



13:30 Lunch

Session 3- Development of Advanced Biomaterials for medical device: from bench to market

(Chairpersons: Profs. Brigida Bochicchio, Antonietta Pepe)

15:00 IL8 - Prof. Christian Schmelzer, Fraunhofer Institute for Microstructure of Materials and Systems IMWS, Halle (Saale), Germany

"Mechanistic Insights into Elastin Fiber Formation for Tailored Biomedical Applications"

16:00 O5 - Giuseppina Biscari, (University of Palermo, Palermo, IT)

"ECM bio-inspired Hydrogels based on Gellan Gum and Elastin for wound healing"

16:20 O6 - Gabriele Obino, (MERLN institute, NL and University of Sassari, IT)

"Marine-Derived Sulfated Polysaccharides Enhance Hemocompatibility and Endothelialization of Nanofibrous PCL for Vascular Grafts applications"

16:40-17:30 Coffee break with Poster Session

17:30 IL9 - Dr. Antonio Laezza, (University of Basilicata, Potenza, IT)

"Biomaterials in a spin: electrospinning polysaccharides"

20.30 Social Dinner

14 JUNE (Aula A17)

Session 4- Nanomaterials and Their Biomedical Applications

(Chairpersons: Profs. Brigida Bochicchio, Grazia M.L. Messina)

9:00 IL 10 - Dr. Ileana Ielo, (University of Messina, Messina, IT)

"The role of nanotechnology in biomaterials fabrication"

10:00 O7 - Alessia Lo Re (University of Palermo, Palermo, IT)

"Development of pH-responsive, photothermal-enhanced electrospun nanofibrous scaffolds for localized post-operative colorectal Cancer therapy"

10:20 Coffee break

Session 5- In Vitro and In Vivo Biomedical Applications of Biomaterials

(Chairpersons: Profs. Brigida Bochicchio, Antonietta Pepe, Grazia M.L. Messina)

10:50 O8 - Alessia Cannizzaro/Antonino Salvatore Fiore (University of Palermo)

"Advancement in plastic and reconstructive surgery: The role of 3D printing in enhancing precision and personalization"

11:10 IL 11 - Prof. Giovanna Calabrese (University of Messina, Messina, IT) &

Prof. Luigi Di Rosa (University of Palermo, Palermo, IT)

"Osteoprogenitor cells, growth factors and biomaterials: A perfect match for bone regeneration / 3D Printing Technologies: design and practical uses in clinical environment"

12:10 Awards (Best Oral & Poster Presentations)

12:30 Closing remarks