

Polymers / Composites / 3Bs MaterialsTech 2025
Joint International Conferences Preliminary Program
16 - 18 April 2025, Albufeira - Portugal

Wed. 16 April 2025		
08:00 - 12:00 Conference Registration / Welcome Coffee Break / Posters Installation		
Polymers / Composites / 3Bs Materials 2025 Session I. A		
Santa Cruz Conference Room		
Session's Chairs:		
10:00 - 10:30	Towards 100% circularity of plastics, a road map G. Mitchell	Prof. Geoffrey Mitchell , Polytechnic Institute of Leiria, Portugal
10:30 - 11:00		
11:00 - 11:30	Mechanical Behavior of PLA/Fe ₃ O ₄ -Np Nanofibrous Materials Prepared by Electrospinning and Solution Blow Spinning N. Nikolić and J. González-Benito	Prof. Javier Gonzalez-Benito , University Carlos III de Madrid, Spain
11:30 - 12:00	GRAM®, the winding technology for space structures G. Pommatau and D. Macieira	Dr Gilles Pommatau , Thales Alenia Space France, France
12:00 - 14:00 Lunch Break		
Polymers 2025 Session I. B: Synthesis, Processing and Characterization		
Session's Chairs:		
14:00 - 14:30	Characterization of polymer-based materials M;L: Di Lorenzo	Prof. Maria Laura Di Lorenzo , CNR- Institute for Polymers, Composites and Biomaterials, Italy
14:15 - 14:30	Processing and Mechanical Characterization of ASA/PET Blend with Compatibilizing Agents for Large Format Additive Manufacturing B.G. Silva-García , P. Burgos, D.L. Sales and S.I. Molina	Mrs. Blanca G. Silva-García , University Cádiz, Spain
14:30 - 14:45	Development of infrared polymer optical filters based on sulfur and cross-linking agents M. Guerchoux , O. Muller, C. Bruder, V. Allheily, B. Lallemand, A-S. Schuller, C. Delaite and L. Merlat	Mrs. Morgane Guerchoux , French-German Research Institute of Saint-Louis, France
14:45 - 15:00	Validation of the Karrenberg/Wortberg Melting Model for Polyamide in Polymer Injection Molding S. Schaufler , S. Kleindel, U. Stritzinger, D. Altmann, T. Köpplmayr and G. Berger-Weber	Ms. Sarah Schaufler , Johannes Kepler University Austria
15:00 - 15:15	Structure-property relationships in coil coatings: Assessing the capability of molecular dynamics simulation for the prediction of glass transition temperature Z. Thebault	Mr. Zahir Thebault , Imperial College London, UK
15:15 - 15:30	Poly(3-octylthiophene-2,5-diyl) – based composite material as high-capacity layer in potentiometric sensor – synthesis and application N. Lenar , R. Piech and B. Paczosa-Bator	Dr. Nikola Lenar , AGH University of Krakow, Poland
15:30 - 15:45	Analysis of Consumption Data and Migration calculations for ensuring Safety in Recycled Polystyrene Food Packaging D. Mittermayr and J. Fischer	Mr. David Mittermayr , Johannes Kepler University, Austria
15:45 - 16:00		
16:00 - 16:30 Afternoon Coffee Break / Posters Session		
16:30 - 16:45	Real-time X-rays investigation on the structural evolution of polyethylene during tenter-frame biaxial stretching I. Squillante , F. Gentile, R. Pantani, A. Guida, F. Auriemma and G. Portale	Ms. Ilaria Squillante , University of Groningen, The Netherlands,

16:45 - 17:00	Modeling the Drying Kinetics of Polymer Volatile Systems Using Thermogravimetric Analysis Data E. G. Viehböck , T. Ehrmann, G. R. Berger-Weber, A. Hammer and C. Paulik	Mr. Ernst Georg Viehböck , Competence Center CHASE GmbH, Austria
----------------------	---	--

Composites Session I. C: Synthesis, Processing and Characterization**Conference Room****Session's Chairs:**

14:00 - 14:30	Hybrid toughening techniques for enhancing interlaminar fracture toughness and mechanical performance of thermoplastic composites A. Ivankovic , Y. Chen, V. Prasad, M. Yasar and N. Murphy	Prof. Alojz Ivankovic , University College Dublin, Ireland
14:30 - 15:00	Experiments and analysis of fatigue delamination in UD Layered composites J. Botsis	Prof. John Botsis , EPFL, Switzerland
15:00 - 15:15	Preliminary Design of SOFC: Material Enhancement, Structural Design, and Manufacturing Process L. Bouhala , A.i Laachachi and S. Klein	Dr. Lyazid Bouhala , Luxembourg Institute of Science and Technology, Luxembourg
15:15 - 15:30	Folding of flax/polypropylene composites based on comingled fabric: Feasibility study S. Provost-Mattmann, V. Dos-Santos-Martins , V. Person and F. Hennebelle	Dr. Valérie Dos Santos Martins , Bourgogne Europe University, France
15:30 - 15:45	Human Robot Collaborative Draping of Carbon Fibre Composite Parts: Results of Three Case Studies C. Eitzinger , D. Zielinski and C. Frommel	Dr. Christian Eitzinger , Profactor GmbH, Austria
15:45 - 16:00	Segmentation Aware Attention Mechanism for Defect Classification of both Virgin and Recycled Carbon Fiber Fabric A. Kolli, M. Carpentieri, D. Krajnc and C. Eitzinger	Mr. Denis Krajnc , Profactor GmbH, Austria
16:00 - 16:30	Afternoon Coffee Break / Posters Session	
Session's Chairs:		
16:30 - 16:45	Defects analysis and microstructural characterization of 3D-printed sintered parts of ceramic matrix composites (cordierite-graphene) Á. García Juárez, I. Esguerra Arce , J. García-Martínez, J. Hidalgo García, L. Illán Andrés, R. Giménez Pérez, A. Pastor Muro, C. Berges Serrano, G.H. Sánchez-Cosgalla and M. García-Martínez	Mrs. Ingrid Esguerra Arce , National Institute of Aerospace Technology, Spain
16:45 - 17:00	Material characteristics of reused carbon fibre-reinforced polymers from wind turbine blades S. Gerdes , I. Möllmann and C. Lauter	Mr. Sönke Gerdes , PHWT Private University of Applied Sciences, Germany
17:00 - 17:15	Determination of the Aging State of Resin Systems in Wind Turbine Blades at the End of Lifetime with IR-Spectroscopy I. Möllmann , S. Gerdes, A. Brunner and, C. Lauter	Ms. Imke Rita Moellmann , PHWT Private University of Applied Sciences, Germany
17:15 - 17:30	Optimizing Recycling: Fragmentation and Sorting of GFRP Components in Battery Housings - Impact on Recyclate Properties J. E. Grimmenstein , T. Krampitz and H. Lieberwirth	Mr. Julius Grimmenstein , TU Bergakademie Freiberg, Germany
17:30 - 17:45	Challenges on Multilyer Composites Desintegration and Materials Recovering for Waste Printed Circuit Boards G. Denafas , G. Miliauskas , E. Andriukonis, E. Griškoniš, I. Pitak, V. Makarevičius, A. Baltušnikas, R. Kriukienė, A. Šleiniūtė, R. Ivanauskas, D. Goljandin and E. Blumbergs	Prof Gintaras Denafas , Kaunas University of Technology, Lithuania

Wed. 16 April 2025

3Bs Materials Session I. D: Synthesis, Processing and Characterization

Conference Room

Session's Chairs:

14:00 - 14:30	Extrusion-based 3D printing of multifunctional bioceramics for biomedical applications P.M.C. Torres and S.M. Olhero	Prof. Susana M. Olhero , University of Aveiro, Portugal
14:30 - 15:00	A bone substitute for dental use functionalized with hydroxylapatite ZnAl and gallic acid prevents osteoclast formation in vitro M.L. Belladonna , C. Suvieri, M. Bastianini, M.Sisani and L.Canton	Prof. Maria Laura Belladonna , University of Perugia, Italy
15:00 - 15:15	Chitosan derived from <i>Hermetia illucens</i> as a novel biomaterial for the production of nanofibrous scaffolds for wound healing M. Giani , B. Vigani, G. Sandri, A. Guarnieri, P. Falabella and S. Rossi	Dr. Micaela Giani Alonso , University of Pavia, Italy
15:15 - 15:30	Rheology-driven designing of high-performance bioinks for effective implementation of 3D-bioprinting in tissue engineering L. Di Muzio , V.C. Carriero, B. Bigi, S. Cesa, S. Petralito, P. Paolicelli and M.A. Casadei	Dr. Laura Di Muzio , Sapienza University of Rome, Italy
15:30 - 15:45	Fabrication of Magnetite-nanoparticle-containing Hydrogel Composites for Cartilage Tissue Engineering Applications A.Vadakken Gigimon , H. Machrafi and C. S. Iorio	Ms. Anet Vadakken Gigimon , Université Libre de Bruxelles, Belgium
15:45 - 16:00	Sandalwood-Reinforced Composites for Personalised 3D-printed Arm Fracture Fixation Braces Using Finite Element Analysis Y. Zheng , C. Vallés and C. Abeykoon	Ms. Yashi Zheng , University of Manchester, UK
16:00 - 16:30	Afternoon Coffee Break / Posters Session	
16:30 - 16:45	3D printing technology for bone tissue engineering: biomimetic apatites as osteoinductive ingredient for nanocomposite inks design E. Campodoni, G. Vicinelli, A. Elsebahy, K. Mustafa, M. Muraro, I. Martin and M. Sandri	Dr. Monica Sandri , CNR-ISSMC-Faenza, Italy
16:45 - 17:00	PLGA based electrospun membrane for accelerated wound healing A. Scarciglia , G. Ferrauto, E. Di Gregorio, P. E. Porporato, P. Bracco and C. Cecone	Mr. Angelo Scarciglia , University of Turin, Italy
17:00 - 17:15	Isolation and characterization of polysaccharides from Colombian agro-industrial by-products as biomaterials from 3D Bioprinting M. Osorio , D. Muñoz, J. Moreno, D. Artunduaga, E. Correa, T. Naranjo, M. Martinez, C. Páramo, R. Valencia, A. Rodríguez, M. Ochoa, N. Montoya, O. Ochoa, C. Gómez and J. Velásquez-Cock	Prof Marlon Osorio , Pontificia Bolivariana University, Colombia
17:15 - 17:30	Exploring the structure and composition of Black Soldier Fly pupal shells throughout chitin extraction A. Falgayrac , V. Pellerin, C.Terrol, S. Faucher, P. Moonen, C. Courrèges, L. Rubatat and S.C.M. Fernandes	Mr. Alexis Falgayrac , IPREM/CNRS, France
17:30 - 17:45		

Thu. 17 April 2025

Polymers / Composites / 3Bs Materials 2025 Session II. A

Santa Cruz Conference Room

Session's Chairs:

09:00 - 09:45	Biomass Functional biomaterials for value-added applications: Synergistic strategies for a sustainable future A. Bishayee	Prof. Anupam Bishayee , Lake Erie College of Osteopathic Medicine, USA
09:45 - 10:30	The Reinforcement of Polymer Nanocomposites with Carbon-Based Nanofillers R.J. Young	Prof. Robert J Young , University of Manchester, UK

10:30 - 11:00 Morning Coffee Break / Posters Session

11:00 - 11:30	From macro- to nano- scales: preparation and effect of fibrillary celluloses on performance of starch composites L. Yu, J. Fu, Y. Yang, Q. Duan and X. Dong	Prof. Long Yu , Henan Academy of Sciences, China
11:30 - 12:00	Novel eco-friendly composites with mineral particles derived from ocean shells and eggshells on a matrix of biobased poly(ethylene terephthalate) S. Kuciel and K. Rusin-Żurek	Prof. Stanislaw Kuciel , Cracow University of Technology, Poland

12:00 - 14:00 Lunch Break

Group Photo at 13:45

Polymers / Composites 2025 Session II. B

Conference Room

Session's Chairs:

14:00 - 14:30		
14:30 - 14:45	Incorporation of carbons into PP/PBE blend for obtaining 3D-printable conductive polymer composites S. Ursescu, S. Grugeon, A. Ferri, A. Da Costa and L. Dupont	Mr. Sebastian Ursescu , Picardie Jules Verne University, France
14:45 - 15:00	Improving Process Stability in Mechanical Recycling of Thermoplastic Composites with a Lab-Scale Dosing System T. Mayrhofer, J. Birtha, C. Marschik, G.R. Berger-Weber and K. Straka	Ms. Tina Mayrhofer , Johannes Kepler University, Austria
15:00 - 15:15	Novel composites reinforced with different types of fibers (basalt, quartz, aramid and polyimide) on a biobased polyethylene terephthalate matrix K. Rusin-Żurek and S. Kuciel	Ms. Karina Rusin-Zurek , Cracow University of Technology, Poland
15:15 - 15:30		
15:30 - 15:45		
15:45 - 16:00		

16:00 - 16:30 Afternoon Coffee Break / Posters Session

16:30 - 16:45		
16:45 - 17:00	The effect of the reinforcement of ceramic tile waste powders on the microstructure and mechanical properties of composites based on epoxy vitrimer P. Kozera, S. Furgoń, J. Kamińska, K. Dydek and D. Kielkiewicz	Dr. Paulina Kozera , Warsaw University of Technology, Poland

Thu. 17 April 2025

**3Bs Materials Session II. C:
Biomaterials Synthesis, Processing and Characterization
Biobased and Biomimetic Materials / Bio interfaces / Biomaterials applications**

Conference Room

Session's Chairs:

14:00 - 14:30	Biomass Functional biomaterials for value-added applications: Synergistic strategies for a sustainable future M. C. Garrigós Selva	Prof. María del Carmen Garrigós Selva , University of Alicante, Spain
14:30 - 15:00	Engineering New Forms of Electrospun Nanofiber Materials for Biomedical Applications J. Xie	Prof Jingwei Xie , University of Nebraska Medical Center-Omaha, USA
15:00 - 15:30	Electroactive micropatterned materials for advanced biointerfaces M. Bianchi	Prof. Michele Bianchi , University of Modena and Reggio Emilia - Unimore, Italy
15:30 - 15:45	Development of Biomimetic Bi-Layered Hybrid Patches for Chronic Wound Management: Integrating Antimicrobial and Regenerative functions E. Campodoni , S. Bernardoni, G. Vicinelli, M. Saqawa, F. Bonvicini, G.A. Gentilomi, A. Grimaldi, M. Montesi and M. Sandri	Dr. Elisabetta Campodoni , CNR-ISSMC, Italy
15:45 - 16:00	Development of Clays/Chitosan Nanocomposites for Microneedles Preparation D. Ianev , T. Rodríguez, B. Vigani, M. Mori, C. Valentino, M. Ruggeri, G. Sandri, C. Aguzzi and S. Rossi	Dr. Daiana Ianev , University of Pavia, Italy
16:00 - 16:30	Afternoon Coffee Break / Posters Session	
Session's Chairs:		
16:30 - 17:00	Composite scaffold based on Poly(lactic acid) and Chitosan/Hydrolyzed Collagen for the treatment of peripheral nerve injury C. Valentino , B. Vigani, M. Ruggeri, G. Sandri	Dr. Caterina Valentino , University of Pavia, Italy
17:00 - 17:15	Enhanced Targeting of Pancreatic Cancer Using N6L-Functionalized Lipid Nanocarriers Encapsulating Paclitaxel L. Larue , C. Chesneau, C. Houpe, B. Brissault, J. Penelle, I. Cascone and S. Belbekhouche	Mrs. Laura Larue , ICMPE/CNRS-UPEC, France
17:15 - 17:30	Silencing AP-1 Signaling Accelerates Ischemic Wound Healing in the Elderly L. Zhang and P. Yu	Dr. Luke Zhang , The University of Texas, USA

Thu. 17 April 2025

Polymers / Composites/ 3Bs Materials Session II. D: Biobased Materials/ Biopolymers/ Biocomposites

Conference Room

Session's Chairs:

14:00 - 14:30	Amine functionalized polymers and compounds for protective coatings in safe applications M.B. Coltelli , V.Gigante, L. Aliotta and A. Lazzeri	Prof. Maria Beatrice Coltelli , University of Pisa, Italy
14:30 - 14:45		Dr. Filomena Freitas , NOVA Lisbon, Portugal
14:45 - 15:00	P. Celeste da Silva Ferreiran	Prof. Paula Celeste da Silva Ferreiran University of Aveiro, Portugal
15:00 - 15:15		
15:15 - 15:30		
15:30 - 15:45		
15:45 - 16:00	Brewers spent grain as main by-product for development of novel, high-performance bio-based polymers, polymer blends, and co-polymers C. D'Aleo , I. Canesi and D. Spinelli	Mrs. Carlotta D'Aleo , Next Technology Tecnotessile, Prato, Italy
16:00 - 16:30	Afternoon Coffee Break / Posters Session	
16:30 - 16:45	Increasing the resistance of PLA-starch composites V. Goetjes , J-C. Zarges and H-P. Heim	Mrs. Victoria Goetjes , University of Kassel, Germany
16:45 - 17:00	Chemical Resistance of Regenerated Cellulose Fiber-Reinforced Bio-Polyamide 5.10 C.K. Falkenreck , J-C. Zarges and H-P.Heim	Mrs. Celia K. Falkenreck , University of Kassel, Germany

Fri. 18 April 2025

Polymers / Composites 2025 Session III. A: Energy and Environmental Applications

Conference Room

Session's Chairs:

09:00 - 09:30		
09:30 - 09:45	Electromagnetic shielding efficiency of composite laminates M. Srivastava and S. Basu	Mr. Mukul Srivastava , Indian Institute of Technology Kanpur, India
09:45 - 10:00	Carbon dioxide Conversion to Fuels and Chemicals using Polymer-Photocatalyst composites O. Sacco , A. Mancuso, V. Venditto and V. Vaiano	Dr. Olga Sacco , University of Salerno, Italy
10:00 - 10:30	Morning Coffee Break	
10:30 - 10:45	A Sustainable Approach to Phenol Production: Photocatalytic Benzene Hydroxylation Using Visible-Light-Active Photocatalyst/Polymer Aerogel Composites A. Mancuso , O. Sacco, V. Venditto and V. Vaiano	Dr. Antonietta Mancuso , University of Salerno, Italy
10:45 - 11:00	Lignins extracted from banana pseudostem: oxidation and evaluation on the removal of heavy metals from effluents A.F. Abreu, J.S. de Souza, T.C. Taha, F.D. Silva, A.C.R. da Silva, R.A. Maia, P. Benar, A.R. Gonçalves	Dr. Adilson Roberto Gonçalves , São Paulo State University, Brazil
11:00 - 11:15	Functionalized SBA-15 for Enhanced Copper and Cobalt Sorption in Contaminated Environments M. Dulski , A. Strach, R. Zaleski, M. Gorgol, K. Pawlik, P. Pawlik, M. Laskowska, A. Viskna, V. Grebnevs and Ł. Laskowski	Dr. Mateusz Dulski , University of Silesia, Poland

Fri. 18 April 2025

3Bs Materials 2025 Session III. B: Biomaterials / Biomimetics Materials / Biobased Materials applications

Conference Room

Session's Chairs:

09:00 - 09:30	Development of functional biopackaging from pomegranate wastes S. Cesa , F. Cairone, I.Arpante, M.Antonetti, S. Petralito, P. Paolicelli, L. Di Muzio	Prof. Stefania Cesa , "La Sapienza" University of Rome, Italy
09:30 - 09:45		
09:45 - 10:00		
10:00 - 10:30	Morning Coffee Break	
10:30 - 12:00		

Polymers / Composites / 3Bs Materials 2025 Posters Sessions

16 and 17 April 2025 (No posters sessions on 18 April 2025)

N.	Poster Title	Author, Affiliation, Country
1.	Recycling of mixed plastic waste: the effect of melt blending temperature on the structure and mechanical properties I. Rasilainen , V. Lahtela and T. Kärki	Ms. Ida Rasilainen , Lappeenranta-Lahti University of Tech., Finland
2.	Synthesis of new polymeric materials for use as coatings of a “homemade” SPME fiber for the analysis of toxic and hazardous compounds I. Jakubowska, B. Przybyła and P. Marć	Ms. Bogumiła Przybyła , Military University of Technology, Poland
3.	Polymethylacrylate with High Molecular Weight Obtained via Radical Polymerization with Iron Hydrometallation Initiation A. Vignali , B. Palucci, F. Bertini and S. Losio	Dr. Adriano Vignali , Institute for Chemical Sciences and Technologies, Italy
4.	Synthesis of Bio-based and Biodegradable polymers from monomers from renewable Biowastes via Biocatalysis and Green Chemistry L. P. Fonseca	Prof. Luis Fonseca , Lisbon University, Portugal
5.	Bio-based Thermosetting Resins from modified Epoxidized Soybean Oil S. Silvano, A. Vignali, F. Zaccheria, L. Boggioni and F. Bertini	Dr. Fabio Bertini , CNR-Institute of Chemical Science and Technologies, Italy
6.	Is the adsorption of styrene on clay enhanced by polymer? E. Scholtzova	Mrs. Eva Scholtzova , Institute of Inorganic Chemistry, Slovakia
7.	Numerical Simulation of Mechanical Properties of Hybrid Composites E. Stankutė and R. Janulionis	Ms. Emilija Stankute , Lithuanian Energy Institute, Lithuania
8.	Enabling nanocomposite synthesis from nanoparticle-based bimetallic reactive systems N.A. Isaac , S. Biswas, J. Rangaraj, J. Pezoldt and H.O. Jacobs	Mr. Nishchay Angel Isaac , TU Ilmenau, Germany
9.	Eco-Friendly Biocomposites from Chestnut Waste: Production, Optimization, and Characterization O.M. Freitas , S.B. Silva, P. Esfandiari, J. F. Silva and V.F. Domingues	Prof. Olga M. Freitas , ISEP-Polytechnic of Porto, Portugal
10.	Driving Sustainability in the Automotive Industry: Hybrid Yarns for Thermoplastic Biocomposites C. Oliveira , I. Costa, S. Silva, M. Silva and F. Oliveira	Mrs. Cristina Oliveira , Technology Centre for Textile and Clothing, Portugal
11.	Bacterial cellulose-based antioxidant biodegradable composite films for food-sustainable packaging C. M. Kuo , S. Q. Huang, B. C. Shi, Y. R. Chang and Y. T. Chen	Dr. Chiu-Mei Kuo , Chung Yuan Christian University, Taiwan
12.	Bacterial Nanocellulose Based Materials for Oral Tablet Formulation in Colon Targeted Delivery of 5-Fluoruracil E. Martínez , A. Guarín, V. Villada, M. Osorio, Y. Vélez, M.E. Morales and C. Castro	Ms. Estefanía Martínez , Pontificia Boivariana University, Colombia
13.	Application of multi-detection GPC Chromatography for detailed structural characterization of biodegradable synthetic polymers T. Baković , I. Šoljić Jerbić, L. Mandić and F. Faraguna	Ms. Tatjana Baković ; Pliva Croatia Ltd., Teva Pharmaceuticals Ltd., Croatia
14.	Development and Characterization of Crocin-Loaded Hyaluronic Acid/ κ -Carrageenan Hydrogels for Enhanced Topical Therapy in Chronic Wounds N. Genicio , A. Martins, E. Niza, L. Diego, A. Ribeiro, L. Pastrana, J. Gallo, S. Sillankorva and M. Bañobre-López	Mrs. Nuria Genicio INL - International Iberian Nanotechnology Laboratory, Portugal
15.	Development of Bacterial Cellulose-Based Cell Culture Platforms Incorporating Bifunctional Peptides for Enhanced Biological Properties and Biomedical Applications P. A. Fernandes , A. R. Aragão, M.L. Fontes, N.A. Santos Filhos and H. S. Barud	Ms. Paula de Abreu Fernandes , University of Araraquara, Brazil
16.	Intratumoral Therapy of Prostate Cancer with Docetaxel Nanomedicines in Nude Mice E. Rivero-Buceta A. Bernal-Gómez, C. Vidaurre-Agut, J. María Benlloch, C.D. Vera Donoso and P. Botella	Dr. Pablo Botella , Polytechnic University València, Spain
17.	Sonosensible liposomes development for transport and release of Gd-piclenol A.Mangia , M. Gagliardi and E. Terreno	Dr. Alberto Mangia , University of Turin, Italy

18.	The Influence of Nitrocarburization on the Functional Properties of Implants used in Thoracic Surgery A. Kajzer , W. Kajzer and G. Wielgus	Prof. Anita Kajzer , Silesian University of Technology, Poland
19.	Micro-Computed Tomography in the Qualitative Assessment of a Ceramic Prosthetic Crown Manufactured by the Pressing Method and CAD/CAM A. Ziębowicz , J. Oskroba, J. Juszczyk and J. Górski	Prof. Anna Ziębowicz , Silesian University of Technology, Poland
29.	3D Artificial Skin Model as a Novel Strategy for the Detection of Inflammation-cascade Activation to Predict Amyotrophic Lateral Sclerosis E. Scarpa , U. D'Amora, I. Bonadies, N. De Cesare, R. Dubbioso, M. Nolano and I. Fasolino	Dr. Enrico Scarpa , CNR IPCB, Italy
21.	Epitope Mapping and DNA-Scaffold Sensors for Improved Diagnosis of Infectious Diseases M. Cambra-Pellejà , Q. Yang, L. Karadurmus, J. Marrugo, L. Baptista-Pires, C. Delgado, M. Vilaplana, J. Muñoz, J. Gandasegui and C. Parolo	Ms. Maria Cambra , Barcelona Institute for Global Health, Spain