Advanced Functional Polymers For Medicine 2022
Program

AFPM
Advanced Functional Polymers for Medicine 2022
1-3 June 2022
CEMEF
Nice, France

Wednesday June 1st

11:00	**Registration open**	Foyer
12:00-13:15	**Get-together lunch**	Foyer
13:15-13:30	**Welcome and introduction to AFPM 2022** Dr. Sytze Buwalda Mines Paris – PSL University, France	Lecture room Mozart
13:30-14:30	**Oral session 1: Tissue/biomaterial interactions** Session chair: Dr. Sytze Buwalda	Lecture room Mozart
13:30-14:00	Prof. Julien Gautrot Queen Mary University of London, UK	*Mesenchymal stem cells sense the toughness of interfaces*
14:00-14:30	Prof. Laurent Corté Mines Paris & ESPCI – PSL University, France	*Hydrogel-tissue adhesion: slippery when wet*
14:30-15:30	**Oral session 2: Poster pitching session** Session chairs: Coraline Chartier & Marion Negrier 100 second-pitches by poster presenters	Lecture room Mozart
15:30-16:00	**Coffee break & Poster session**	Foyer
16:00-18:00	**Oral session 3: Natural and synthetic functional polymers for medicine** Session chair: Prof. Tina Vermonden	Lecture room Mozart
16:00-16:30	Prof. Jukka Seppälä Aalto University, Finland	*Functionalized polysaccharides as antimicrobial agents*
16:30-17:00	Prof. Christine Jérôme University of Liège, Belgium	*Non-isocyanate polyurethane networks: new opportunities for biomaterials*
17:00-17:30	Prof. Robert Luxenhofer University of Helsinki, Finland	*Novel thermogelling and inverse thermogelling polymers for drug delivery and 3D (bio)printing*
17:30-18:00	Prof. Benjamin Nottelet University of Montpellier, France	*Development of a macromolecular platform to yield functional degradable networks with actuation, self-healing and/or bioadhesion properties*
19:00-21:00	**Dinner**	Hotel Omega (5 min. walk from CEMEF)

Thursday June 2nd

09:00-10:30	**Oral session 4: Polymeric biomaterials for advanced therapeutic delivery** Session chair: Prof. Andreas Lendlein		Lecture room Mozart
09:00-09:30	Prof. Cameron Alexander University of Nottingham, UK	*Polymer therapeutics and formulations for applications in brain tumours*	
09:30-10:00	Dr. Yang Shi RWTH Aachen University, Germany	*Therapeutic polymer systems based on self-assembly: from non-covalent to covalent*	
10:00-10:30	Prof. Nicola Tirelli Italian Institute of Technology, Italy	*ROS-scavenging polymers for stealth-responsive conjugation*	
10:30-11:00	**Coffee break & Poster session**		Foyer
11:00-11:30	**Oral session 5: Advanced functional polymers for medicine – an industrial perspective** Session chair: Prof. Dirk Grijpma		Lecture room Mozart
11:00-11:30	Dr. Johan Rixte Seqens, France	*Derisking the GMP polymer supply chain for APIs and RNA encapsulation*	
11:30-12:30	**Oral session 6: Tissue/biomaterial interactions** Session chair: Prof. Dirk Grijpma		Lecture room Mozart
11:30-12:00	Prof. Maria Vicent Polymer Therapeutics Lab, Spain	*Polypeptide-based multivalent nanoconjugates as modulators of tumor microenvironment*	
12:00-12:30	Prof. Elisabeth Engel Institute for Bioengineering of Catalonia, Spain	*Role of biomaterials in endogenous tissue regeneration*	
12:30-14:00	**Lunch break & Poster session**		Foyer
14:00-15:30	**Oral session 7: Processing of polymeric biomaterials for medicine** Session chair: Prof. Andreas Lendlein		Lecture room Mozart
14:00-14:30	Prof. Alvaro Mata University of Nottingham, UK	*From biological organization principles to supramolecular biofabrication*	
14:30-15:00	Prof. Sandra van Vlierberghe Ghent University, Belgium	*On the interaction between polymers and light: from chemical design towards medical device*	
15:00-15:30	Prof. Aleksandr Ovsianikov Technical University of Vienna, Austria	*The third strategy in tissue engineering enabled by high resolution 3D printing*	

15:30-16:00	**Coffee break & Poster session**	Foyer
16:00-17:00	**Oral session 8: Natural and synthetic functional polymers for medicine** Session chair: Dr. Tatiana Budtova	Lecture room Mozart
16:00-16:30	Prof. Andreas Lendlein University of Potsdam, Germany	*Inverse shape-memory effect in hydrogels*
16:30-17:00	Dr. Maria Chiara Arno University of Birmingham, UK	*Living polymerisation of water-soluble monomers towards the fabrication of soft cellular scaffolds*
17:00-18:00	**Bus trip to Nice**	
19:30-22:30	**Gala dinner**	Grand Hotel Aston La Scala, Nice
22:30-23:00	**Bus trip back to CEMEF in Sophia Antipolis**	

Friday June 3rd

09:00-10:30	**Oral session 9: Natural and synthetic functional polymers for medicine** Session chair: Prof. Nicola Tirelli		Lecture room Mozart
09:00-09:30	Dr. Patrick van Rijn University of Groningen, The Netherlands	*Nanogels as a versatile multi-modal biomedical nanomaterial*	
09:30-10:00	Prof. Giovanni Vozzi University of Pisa, Italy	*Fabrication of a 3D in vitro model of the human gut microbiota*	
10:00-10:30	Prof. Tina Vermonden Utrecht University, The Netherlands	*Thermosensitive shrinking hydrogels for high resolution 3D-printing*	
10:30-11:00	**Coffee break & Poster session**		Foyer
11:00-12:00	**Oral session 10: Natural and synthetic functional polymers for medicine** Session chair: Prof. Nicola Tirelli		Lecture room Mozart
11:00-11:30	Dr. Carlos Alberto Garcia-Gonzalez University of Santiago de Compostela, Spain	*2D- and 3D-printing of aerogels for biomedical applications*	
11:30-12:00	Prof. Dirk Grijpma University of Twente, The Netherlands	*Hybrid hydrogels based on natural and synthetic polymers*	
12:00-13:30	**Lunch break & Poster session**		Foyer
13:30-14:30	**Oral session 11: Polymeric biomaterials for advanced therapeutic delivery** Session chair: Dr. Sytze Buwalda		Lecture room Mozart
13:30-14:00	Prof. Sébastien Lecommandoux University of Bordeaux, France	*Biomimetic polymers as smart functional therapeutics*	
14:00-14:30	Dr. Tatiana Budtova Mines Paris – PSL University, France	*Bio-aerogels: prospects for biomedical applications*	
14:30-15:00	**Poster prizes & closing of AFPM 2022**		Lecture room Mozart
15:00-16:00	**Goodbye coffee**		Foyer