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2nd World Congress on

Biopolymers

August 04-05, 2016 Manchester, UK

Scientific Program



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Rosewood Room

conference**series.com** 09:30-09:55

Opening Ceremony

Keynote Forum

- 09:55-10:00 **Introduction**
- 10:00-10:25 **Title: New concept of resorbable biopolymer hybrids for implant applications**
Xiang Zhang, University of Cambridge, United Kingdom
- 10:25-10:50 **Title: Novel approaches in hydrogel design from chemically-modified polysaccharides**
Rachel Auzely Velly, University Grenoble Alpes, France
- 10:50-11:15 **Title: Radiation processed textile sludge for preparing eco-friendly bricks**
Mubarak Ahmad Khan, Bangladesh Atomic Energy Commission, Bangladesh

Networking and Refreshment Break 11:15-11:30 @ Outside Room

Sessions:

Advanced Biopolymers | Natural Polymers | Biopolymers in Biofibers & Microbial Cellulose

Session Chair: Maria Cristina Righetti, National Research Council, Italy

Session Introduction

- 11:30-11:50 **Title: Biosynthesis of block copolymer for poly(3-hydroxyalkanoate)**
Takahiko NAKAOKI, Ryukoku University, Japan
- 11:50-12:10 **Title: Magnetism in metal-free phthalocyanine and graphite-like nanostructures**
Armen Kocharian, California State University, USA
- 12:10-12:30 **Title: Constrained amorphous interphase and mechanical properties of bio-based polyesters**
Maria Cristina Righetti, National Research Council, Italy
- 12:30-12:50 **Title: Effect of additives on properties of bio-based polymers and their blends**
Patrizia CINELLI, National research Council, Italy
- 12:50-13:10 **Title: Understanding the microphase morphology of concentrated cellulose solutions from their rheological behavior**
Yumei Zhang, College of Material Science and Engineering, China

Group Photo @ Rosewood Room

Lunch Break 13:10-14:10 @ Source Grill

- 14:10-14:30 **Title: Controlled simple green synthesis of smaller sized aqueous quasi-spherical polymer-capped silver nanoparticles**
Samuel Oluwatobi Oluwafemi, University of Johannesburg, South Africa
- 14:30-14:50 **Title: Preparation and characterization of organic montmorillonite- polyvinylalcohol-co-polyacrylic nanocomposite hydrogel for heavy metal uptake in water**
Ehsan A. H. A. Goma, Ain Shams University, Egypt
- 14:50-15:10 **Title: Organic modification and functionalization of biobased aromatics and their use in industrial polymer formulations**
Elena Benedetti, AEP Polymers Srl, Italy
- 15:10-15:30 **Title: Dissolution of cellulose in ionic liquids via polyelectrolyte interaction**
Ye Chen, College of Material Science and Engineering, China
- 15:30-15:50 **Title: Fabrication of reduced graphene oxide/chitosan-based conductive hydrogel for biomedical applications**
Neslihan Alemdar, Marmara University, Turkey

Networking and Refreshment Break 15:50-16:05 @ Outside Room

- 16:05-16:25 **Title: The effect of magnetic field on biophysical properties of different water samples**
Amani Samy Hegazy, Ain Shams University, Egypt
- 16:25-16:45 **Title: Immittance responses study of dodecyltrimethylammonium bromide effect on 2-hydroxyethyl cellulose solid biopolymer electrolytes**
Mohd Ikmar Nizam Bin Haji Mohamad Isa, Universiti Malaysia Terengganu, Malaysia

16:45-17:00 **Title: Lignin phenol formaldehyde resole resin: Synthesis and characteristics**
Masoumeh Ghorbani, University of Natural Resources and Life Sciences, Austria

17:00-17:15 **Title: Composition dependence of the synergistic effect of nucleating agent and plasticizer in poly(lactic acid)**
Seyed Mohammad Kazem Fehri, University of Pisa, Italy

Day 2 August 05, 2016

Rosewood Room

Keynote Forum

09:05-09:30 **Title: Superior thermoplastics prepared entirely from lipids: Synthesis, structure and properties**

Suresh S. Narine, Trent University, Canada

09:30-09:55 **Title: Developing environment-sensitive molecular probes for target binding-activated fluorescence imaging**

Yi Pang, The University of Akron, USA

Sessions:

Biopolymers as Materials | Green Composites in Biopolymers

Session Chair: **Lovely Mathew**, Mahatma Gandhi University, India

Session Introduction

09:55-10:15 **Title: Study on curing condition of furan resin for matrix of green composites**
Masatoshi Kubouchi, Tokyo Institute of Technology, Japan

10:15-10:35 **Title: Bioactive nanofibrous systems based on natural materials**
Elisa Mele, University Loughborough, United Kingdom

10:35-10:55 **Title: Alcayota films: Effect of crosslinking**
Martin AMasuelli, Stanford University, USA

Networking and Refreshment Break 10:55-11:10 @ Outside Room

11:10-11:30 **Title: Development and characterization of bio nano cellulose reinforced polyamide nanocomposites prepared by electron spinning method**
Lovely Mathew, Mahatma Gandhi University, India

11:30-11:50 **Title: The physical principles underpinning the emergence of structure in plants, and their application in the development of new biopolymer based materials**
Philip Turner, Edinburgh Napier University, United Kingdom

11:50-12:10 **Title: Bionanocomposites derived from natural hydrogel matrices: An application for water purification**
Shivani Bhardwaj Mishra, University of South Africa, South Africa

12:10-12:30 **Title: Maximum utilization of plant resources to produce edible nanocomposite bioplastics**
Luiz Henrique Capparelli Mattoso, National Nanotechnology Laboratory for Agribusiness, Brazil

12:30-12:50 **Title: Thermo sensitive gelling film mediated drug rectal delivery in the treatment of colorectal cancer**
Lulu Wang, Institute of Materia Medica, China

12:50-13:10 **Title: Conversion of lipids into biopolymers and conjugates**
Aman Ullah, University of Alberta, Canada

Lunch Break 13:10-14:10 @ Source Grill

Poster Presentations 14:10-15:00 @ Outside Room

WCBP-01 **Conformational transitions of uracil transporter-uraa from escherichia coli: A molecular simulation study**
Xi Zhao, Jilin University, China

WCBP-02 **Title: Development and in vivo evaluation of a Copper IUD coated with a biodegradable polymer**
Abi Santhosh Aprem, HLL Lifecare Ltd, India

WCBP-03 **Title: Furfuryl low-molecular-weight chitosan derivative as anti-adhesion after tendon regeneration surgery**
Tae-Il Son, Chung-Ang University, Republic of Korea

WCBP-04 **Title: Isolation and characterisation of pha-producing bacteria from the environment.**
Aisha Alwuhaib, University of Portsmouth, UK

WCBP-05 **Title: Investigations of takeout proteins' ligand binding and release mechanism using molecular dynamics simulation**
Xu-ri Huang, Jilin University, China

WCBP-06 **Title: Biopolymer chitosan/montmorillonite/nano γ -Al₂O₃ nanocomposites: Preparation and characterization**
Nahid Shajari, Islamic Azad University, Iran

- WCBP-07** Title: **Tearing resistance of blown biodegradable films based on PLA**
Norma Mallegni, University of Pisa, Italy
- WCBP-08** Title: **Multiscale simulations of a peptide - Zinc oxide composite**
Immanuel Schäfer, University of Stuttgart, Germany
- WCBP-09** Title: **Radiation copolymerization of different monomers and polymers producing hydrogels applied in water treatment processes**
Reem Mohammed, Ain Shams University, Egypt
- WCBP-10** Title: **Isolation and characterization of polyvinyl alcohol (PVA) degrading fungal strains from soils**
Somayeh Mollasalehi, University of Manchester, United Kingdom

Sessions:

Biopolymer Feed Stock Challenges & Opportunities | Biopolymers for Tissue Engineering | Future & Scope of Biopolymers

Session Chair: Florent Allais, ABI – AgroParisTech, France

15:00-15:20 Title: **Chemo-enzymatic synthesis and polymerizations of bio-based bisphenols derived from lignin: An access to novel 100% renewable alternating aromatic/aliphatic polymers**

Florent Allais, ABI – AgroParisTech, France

15:20-15:40 Title: **Biodegradable and renewable polymers: How to contribute to a sustainable future**

Andreas Kunkel, BASF SE, Germany

15:40-16:00 Title: **Preparation and characterization of silk/diopside composite nanofibers via electrospinning for tissue engineering applications**

Abbas Teimouri, Payame Noor University, Iran

Networking and Refreshment Break 16:00-16:15 @ Outside Room

16:15-16:35 Title: **Preparation and characterization of bacterial cellulose-based biomaterial as scaffolds for articular cartilage tissue engineering**

Huaping Wang, Donghua University, China

16:35-16:55 Title: **Biopolymers – Key actors in the medicine of the future**

Francisco M Goycoolea, University of Leeds, UK

16:55-17:15 Title: **A tunable and scalable biomaterial for 3D cell development: applications in cartilage engineering and tumor engineering**

Brigitte Deschrevel, University of Rouen, France

Panel Discussion

Award & Closing ceremony



Bookmark your dates

4th World Congress on

Biopolymers

September 07-09, 2017 Paris, France

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