

# Biopolymers

August 04-05, 2016 Manchester, UK

## Scientific Program



**Hosting Organizations: Conference Series LLC**

2360 Corporate Circle., Suite 400 Henderson, NV 89074-7722, USA

Ph: +1-702-508-5200 Ext: 8035, Fax: +1-650-618-1417, Toll free: +1-800-216-6499

**Conference Series Ltd**

Heathrow Stockley Park Lakeside House, 1 Furzeground Way, Heathrow, UB11 1BD, UK, Tel: +1-800-216-6499

Email: [biopolymercongress@insightconferences.com](mailto:biopolymercongress@insightconferences.com); [biopolymercongress@conferenceseries.com](mailto:biopolymercongress@conferenceseries.com)

## Rosewood Room

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

## Opening Ceremony

## Keynote Forum

09:55-10:00	<b>Introduction</b>
10:00-10:25	<b>Title: New concept of resorbable biopolymer hybrids for implant applications</b> Xiang Zhang, University of Cambridge, United Kingdom
10:25-10:50	<b>Title: Novel approaches in hydrogel design from chemically-modified polysaccharides</b> Rachel Auzely Velly, University Grenoble Alpes, France
10:50-11:15	<b>Title: Radiation processed textile sludge for preparing eco-friendly bricks</b> 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 &amp; Microbial Cellulose

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

## Session Introduction

11:30-11:50	<b>Title: Biosynthesis of block copolymer for poly(3-hydroxyalkanoate)</b> Takahiko NAKAOKI, Ryukoku University, Japan
11:50-12:10	<b>Title: Magnetism in metal-free phthalocyanine and graphite-like nanostructures</b> Armen Kocharian, California State University, USA
12:10-12:30	<b>Title: Constrained amorphous interphase and mechanical properties of bio-based polyesters</b> Maria Cristina Righetti, National Research Council, Italy
12:30-12:50	<b>Title: Effect of additives on properties of bio-based polymers and their blends</b> Patrizia CINELLI, National research Council, Italy
12:50-13:10	<b>Title: Understanding the microphase morphology of concentrated cellulose solutions from their rheological behavior</b> 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	<b>Title: Controlled simple green synthesis of smaller sized aqueous quasi-spherical polymer-capped silver nanoparticles</b> Samuel Oluwatobi Oluwafemi, University of Johannesburg, South Africa
14:30-14:50	<b>Title: Preparation and characterization of organic montmorillonite- polyvinylalcohol-co-polyacrylic nanocomposite hydrogel for heavy metal uptake in water</b> Ehsan A. H. A. Goma, Ain Shams University, Egypt
14:50-15:10	<b>Title: Organic modification and functionalization of biobased aromatics and their use in industrial polymer formulations</b> Elena Benedetti, AEP Polymers Srl, Italy
15:10-15:30	<b>Title: Dissolution of cellulose in ionic liquids via polyelectrolyte interaction</b> Ye Chen, College of Material Science and Engineering, China
15:30-15:50	<b>Title: Fabrication of reduced graphene oxide/chitosan-based conductive hydrogel for biomedical applications</b> Neslihan Alemdar, Marmara University, Turkey

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

16:05-16:25	<b>Title: The effect of magnetic field on biophysical properties of different water samples</b> Amani Samy Hegazy, Ain Shams University, Egypt
16:25-16:45	<b>Title: Immittance responses study of dodecyltrimethylammonium bromide effect on 2-hydroxyethyl cellulose solid biopolymer electrolytes</b> 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  $\gamma$ - $\text{Al}_2\text{O}_3$  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**

**6<sup>th</sup> World Congress on**

# **Biopolymers**

**September 07-09, 2017 Paris, France**

e-mail: [biopolymercongress@insightconferences.com](mailto:biopolymercongress@insightconferences.com); [biopolymers@conferenceseries.net](mailto:biopolymers@conferenceseries.net)

Website: [biopolymers.conferenceseries.com](http://biopolymers.conferenceseries.com)

**Conference Series LLC**  
2360 Corporate Circle, Suite 400  
Henderson, NV 89074-7722, USA  
Ph: +1-888-843-8169  
Fax: +1-650-618-1417  
[america@conferenceseries.com](mailto:america@conferenceseries.com)

**Conference Series Ltd.**  
Traian Str., No.61, Constanta 900720,  
Romania, Tel: 0805-080048  
Heathrow Stockley Park Lakeside  
House, 1 Furzeground Way, Heathrow,  
UB11 1BD, United Kingdom  
[europe@conferenceseries.com](mailto:europe@conferenceseries.com)

**OMICS International**  
6<sup>th</sup> Floor, North Block, Divyasree  
Building, Raidurg Hyderabad,  
Telangana, INDIA-500032  
Tel: +91-40-33432300  
[asiapacific@conferenceseries.com](mailto:asiapacific@conferenceseries.com)

**Toll free**  
USA & Canada: +1-800-216-6499  
Australia: +1-800-651-097  
Europe: 0805-080048