



UNITED Scientific
Group

A Non-profit Organization
(501 (c) 3 Pending)



International Conference on

Biopolymers and Bioplastics

March 04-06, 2019



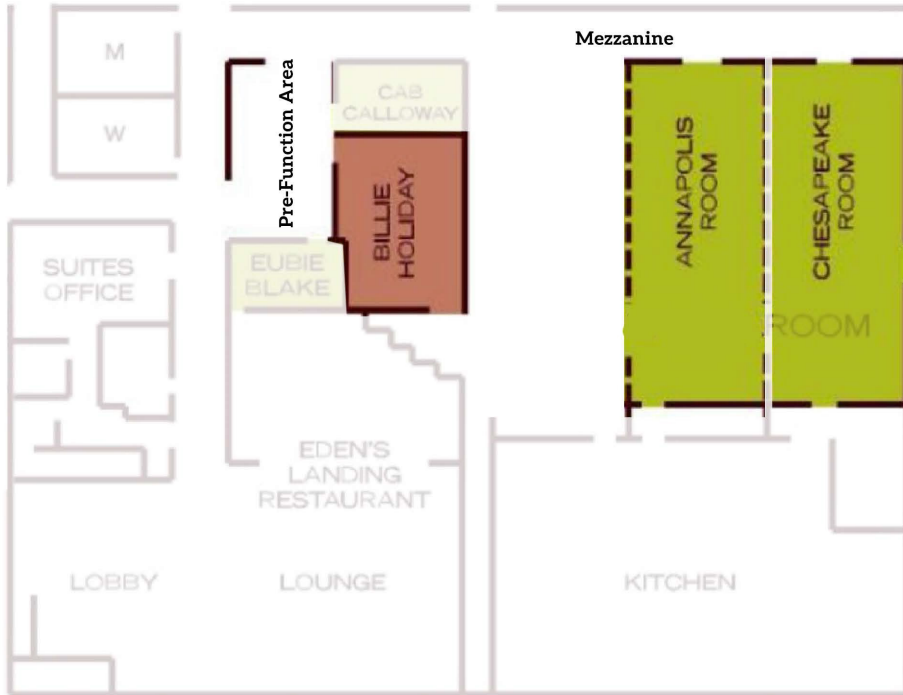
Venue

DoubleTree by Hilton Baltimore - BWI Airport

890 Elkridge Landing Rd, Linthicum Heights

MD 21090, USA

Venue Floor Plan



We are excited to use Whova as our event platform.
Attendees please download Whova event app.



The event invitation code is: **biots**

Day 1

March 04
2019

09:00-09:30 Conference Registrations @ Pre-Function Area

Keynote Session

@ Chesapeake Room

09:30-10:15 **Alternative Natural Rubber: Need, Applications and Scaling Up**
Katrina Cornish, The Ohio State University, OH

10:15-11:00 **Bio-Based Thermoset Polymers for Composite, Coating, and Adhesive Applications**
Giuseppe Palmese, Drexel University, PA

11:00-11:20 Coffee Break and Networking @ Mezzanine

11:20-12:05 **New Nanofiber Scaffold Spinning Methods for Tissue Engineering Application**
Sergiy Minko, University of Georgia, GA

12:05-12:50 **Modification of Low Molecular Polylactic Acid by CaF₂ nanoparticles – A New Approach to Change its Material Properties**
Erhard Kemnitz, Humboldt University of Berlin, Germany

12:50-14:00 Lunch Break and Networking @ Annapolis Room

14:00-14:45 **Cellulose-Based Functional Materials for Energy Harvesting**
Xudong Wang, University of Wisconsin-Madison, WI

14:45-15:30 **Application of PHB as Hydrocarbon Adsorbent Material**
Maximilian Lackner, Vienna University of Technology, Austria

15:30-15:50 Coffee Break and Networking @ Mezzanine

15:50-17:00 **Workshop on "Bioplastics"**
Ramani Narayan, Michigan State University, MI

Day 2

March 05
2019

Keynote Session

@ Chesapeake Room

- 09:00-09:40 **Designing Materials Which Determine Cell Functionality Via Control of ECM Protein Morphology**
Miriam Rafailovich, Stony Brook University, NY
- 09:40-10:20 **New Nanosized Macro-Molecular Systems and Their Interaction with Biopolymers and Living Objects**
Mikhail I. Shtilman, D. Mendeleev University of Chemical Technology of Russia, Russian Federation

Invited Session

- 10:20-10:45 **Enhancement of Mechanical Toughness for Poly (Lactic acid)**
Masayuki Yamaguchi, JAIST, Japan

10:45-11:00 Coffee Break and Networking

@ Mezzanine

11:00-12:15 Workshop

“Electrospinning Biopolymer Scaffolds for Regenerative Medicine and More”

James Dolgin, Dipole Materials Inc, MD

Alex Meltzer, Dipole Materials Inc, MD

Adam Van Dyke, Dipole Materials Inc, MD

12:15-12:30 Questionnaire

12:30-13:30 Lunch Break and Networking

@ Annapolis Room

Session 1 Biopolymers

@ Chesapeake Room

Chairs: **Masayuki Yamaguchi, JAIST, Japan**
Antonella Esposito, University of Rouen, France

13:30-13:55 **Injectable and Highly Stretchable Hydrogels**
Hai Feng, Drexel University, PA

13:55-14:20 **Polymer Blends on the Nanoscale: Topology as a Surface-Active Agent**
Giuseppe Pellicane, University of Kwazulu-Natal, South Africa

14:20-14:45 **Synthesis and Applications of Biopolymers**
Ana Vera Machado, University of Minho, Portugal

14:45-15:10 **Effects of Viscoelasticity to the Development of Personal Care Formulation**
Wilson Lee, Estee Lauder Companies, NY

15:10-15:30 Coffee Break and Networking @ Mezzanine

15:30-15:55 **Ras Inhibitor Based Multi-Functional Carrier for Positron-Emission Tomography Imaging Guided Drug Co-Delivery**
Jingjing Sun, University of Pittsburgh, PA

15:55-16:20 **Measuring Bioplastic Degradation**
Andrej Holobar, ECHO, DOO, Slovenia

16:20-16:45 **Automatic Respirometry System for Biodegradation Measurements by ECHO Instruments**
Tine Zlebnik, ECHO, DOO, Slovenia

16:45-17:10 **Sequence Determination of Phase-Separated Assemblies of Biopolymers in Living Cells**
Ming-Tzo Wei, Princeton University, NJ

17:10-17:45 Posters Session @ Annapolis Room

P-01 **Physical and Chemical Gelation of Gelatin Methacryloyl for Biomedical Applications**
Heon E. Park, University of Vermont, VT

P-02 **Nitrilotriacetic Acid -End-Functionalized Polymers for Bio-applications**
Hyun-Jong Paik, Pusan National University, South Korea

P-03 **BioPapers: An Innovative Approach to 3D Cell Scaffolds**
Alex Meltzer, Dipole Materials Inc, MD

P-04 **Bio-based Benzoxazine Monomers Derived from Di-Furan-Amine, Vanillin, and Phenol**
Mengwen Yu, Drexel University, PA

P-05 **Tetra-Functional Furan-Based Epoxy-Amine Thermosetting Systems with Superior Characteristics**
Xi Chu, Drexel University, PA

17:30-18:30 Reception @ Annapolis Room

Day 3

March 06
2019

Session 2 **Biopolymers** @ Chesapeake Room

Chair **Miriam Rafailovich, Stony Brook University, NY**

09:00-09:30 **Novel Approach for Coating Encapsulated Stem Cells in 3D with Biopolymers**

Kalle Levon, NYU Tandon School of Engineering, NY

09:30-10:00 **Design, Electrochemical Synthesis, and Characterization of Conjugated Polymers for Interfacing Biomedical Devices with Living Tissue**

David C. Martin, The University of Delaware, DE

10:00-10:30 **A Biodegradable Photo-Crosslinked Fibrous Elastomer for Cardiac Tissue Engineering Applications**

Somayeh Zamani, Cornell University, NY

10:30-11:00 **Regulation of Cell and Matrix Moduli by Enzymatically Inactive lecithin Retinol Acyl Transferase**

Marcia Simon, Stony Brook University, NY

11:00-11:30 **Nitrilotriacetic acid -End-Functionalized Polymers for Bio-applications**

Hyun-Jong Paik, Pusan National University, South Korea

11:30-12:00 **How can Molecular Mobility Unveil the Limits and Potentialities of Biopolymers?**

Antonella Esposito, University of Rouen, France

12:00-12:30 **Biomass Delignification Effect on Hemicellulose Solubilization**

Michel Breinzo, University of Sao Paulo State, Brazil

12:30- **Lunch & Departures**

@ Billie Holiday



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