

# The Future of Chitosans

Agenda – September 20, 2017

<b>9:30</b>	Welcome and introduction	A. Podile (University of Hyderabad, India)
<b>9:45</b>	Chitosans - High-Tech Functional Biomaterials for the Bio-Economy  Nano3Bio Chitosans - Improved Performance through NanoBioTechnology	B. Moerschbacher (University of Münster, Germany)
<b>10:30</b>	<b>Coffee break</b>	
<b>11:00</b>	Deciphering chitin biosynthesis: fundamentals and potential applications	E. Rzesutek, S. Díaz-Moreno, O. Ampomah, V. Bulone (Royal Institute of Technology, Sweden)
<b>11:30</b>	The Promise of Enzymes: Natural Chitosans through Biotechnology	L. Hembach, S. Cord-Landwehr, J. Wattjes, A. Niehues, J. Hoßbach, S. Naqvi, N.E. El Gueddari, B.M. Moerschbacher (University of Münster, Germany)
<b>12:00</b>	The transglycosylation route for synthesis of bio-active chitoooligosaccharides	A. Podile, J. Madhuprakash (University of Hyderabad, India)
<b>12:30</b>	Opportunities for young researchers	Dr. Harish (Department of Science and Technology, Government of India)
<b>12:45</b>	<b>Lunch break and poster session</b>	
<b>14:00</b>	Enzyme engineering for the production of chitosans with defined acetylation pattern	A. Planas, X. Biarnés, H. Aragunde, C. Alsina, L. Grifoll, S. Pascual, A. Aranda (University Ramon Llull, Spain)
<b>14:30</b>	Expanding the metabolic engineering toolset to develop tailor-made microbial cell factories: microbial production of pure and well-defined chitoooligosaccharides	M. De Mey (University of Gent, Belgium)
<b>15:00</b>	Electrospun and electrosprayed chitosan nanofibers and particles for biomedical applications	A. Mendes, I. Chronakis (Technical University of Denmark)
<b>15:30</b>	Chitosan-based nanoparticles and their promising role in tomorrow's medical therapies	F. Goycoolea (University of Leeds, UK / University of Münster, Germany)
<b>16:00</b>	<b>Coffee break</b>	
<b>16:30</b>	Biomining of thermo-sensitive chitosan hydrogels for bone tissue regeneration	M. Tardajos, P. Dubruel (University of Gent, Belgium)
<b>17:00</b>	Intravascular accumulation and retention of chitosan-nanocapsules	C. Gorzelanny (Heidelberg University, Germany)
<b>17:30</b>	Life cycle assessment of chitosans and chitoooligosaccharides production	I. Muñoz (2.-0 LCA consultants, Denmark) F. Möller (Greendelta GmbH, Germany)
<b>18:00</b>	Conclusions	



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