

Tuesday September 22 -The Auditorium, NINA-building		
Chair: Kjell Morten Vårum		
09:00 – 09:40	KN1 O1	<u>Tamo Fukamizo and Shoko Shinya,</u> Chitosan-binding module: crystal and NMR solution structures revealed amino acid residues important for ligand binding
09:40 – 10:00	O2	<u>Georg Kopplin, Yiming Feng, Kimihiko Sato, Kjell M. Vårum</u> Chitosan oligomers as crosslinkers in alginate gels
10:00 – 10:20	O3	<u>Sindre H. Bjørnøy, David C. Bassett, Stefan Mandaric, Berit Løkensgard Strand, Jens-Petter Andreassen, Seniz Ucar and Pawel Sikorski</u> Mineralisation of alginate hydrogels
10:20 – 10:40		Break
Chair: Shinichi Kitamura		
10:40 – 11:00	O4	<u>Yuki Ozaki, Yusuke Takagi, Hideki Mori, Shigenori Murata and Masayuki Hara</u> Porous hydrogel of wool hair keratin
11:00 – 11:20	O5	<u>Ingrid Vikøren Mo</u> Towards Polysaccharide Origami: Preparation of Chitooligosaccharide-Dihydrazide Hybrids
11:20 – 11:40	O6	<u>Paige Luck, E. Allen Foegeding and Kjell M. Vårum</u> Charge-related astringency of chitosans
11:40–13:00		Lunch
Chair: Kazunari Akiyoshi		
13:00-13:40	KN2 O7	<u>Terje Espevik</u> The double edge sword of the inflammatory response
13.40-14.00	O8	<u>Shinichi Kitamura, Shiho Suzuki, Yoshiaki Yuguchi, Kazumi Funane</u> Conformation and physical properties of cycloisomaltooligosaccharides in aqueous solution
14.00-14.20	O9	<u>Masahiro Yasuda, Wilhelm R. Glomm, and Shin Aizawa</u> Effects of Anticancer Drug against to K562 cell Supported by Stromal Cells in Three-Dimensional Culture System
14.20 -14.40		Break

Chair: Bjørn E.Christensen		
14:40 – 15:00	O10	<i>Armend G. Håti, David C. Bassett, Nina Arnfinnsdottir, Jonas M. Ribe, Pawel Sikorski, Marit Sletmoen, Gianluca Etienne, David A. Weitz, and Bjørn T. Stokke</i> A microfluidic approach for the synthesis of cell loaded alginate microparticles
15.00-15.20	O11	<i>David C. Bassett, Armend G. Håti, Berit L. Strand, Sabrina Ehnert, Andreas Nüssler, Bjørn T. Stokke and Pawel Sikorski</i> Structuring alginate in three dimensions across multiple length scales for biological applications.
15:20 – 15:40	O12	<i>Yoshiaki Yuguchi, Kyoko Yamamoto, Shiho Suzuki and Shinichi Kitamura</i> Structural formation of some polysaccharides as observed by time-resolved small angle X-ray scattering
16:00 – 18:00	Poster session	
	P1	<i>Hatsuho Takemitsu, Yoshihiro Sako, Hiroshi Yamaguchi, Hiroshi Inui and Shinichi Kitamura</i> A superheated steam rice cooking machine: the taste and freshness of cooked rice with lower energy consumption
	P2	<i>Yiming Feng, Elise Van de Vyver, Kåre Andre Kristiansen, Finn Lillelund Aachmann, Kimihiko Sato, Kjell Morten Vårum</i> Attempts to isolate chitin-protein fragments
	P3	<i>Shizuka Takebe, Shiho Suzuki, Bjørn E. Christensen, Yoshiaki Yuguchi and Shinichi Kitamura</i> Preparation of a series of different molecular weight fucoidan samples using a wet pulverizing system
	P4	<i>Yoshiaki Yuguchi, Masanori Kawabata</i> Structural formation of xyloglucan by addition of polyphenols
	P5	<i>Akira DAIYASU, Masahiro YASUDA, Hiroyasu OGINO</i> Green Technology for Agriculture: Development of CO ₂ and Nitrogen Oxide Recycling System Supported by NO _x Removing Technique
	P6	<i>Takako Takitoh, Masahiko Bessho, Motohiro Hirose, Hajime Ohgushi, Hideki Mori, Masayuki Hara</i> In vitro osteogenic differentiation of rat mesenchymal stem cells on two types of collagen gels with and without collagen fibrils.

	P7	Rita S. Dias Monte Carlo simulations of biophysical systems. A coarse-grain approach
	P8	Marianne Ø. Dalheim, Line Aa. Omtvedt, Finn L. Aachmann and Berit L. Strand. Hydrogels with modified alginate: Gels with tunable mechanical properties
	P9	Line Aa. Omtvedt, Marianne Ø. Dalheim, Thorbjørn T. Nielsen, Kim L. Larsen, Berit L. Strand, and Finn L. Aachmann Partially Oxidized Alginate Grafted with β -CyD: A Potential Release System for Biomedical Molecules
	P10	Abba E. Coron, Gudmund Skjåk-Bræk and Berit L. Strand Alginate microbeads – strategies for stabilizing alginate gels with intermediate G content
19:30	Workshop dinner at Kalas & Canasta, Nedre Bakklandet 5	
Evening program: Dinner		

Wednesday, September 23		
Chair: Bjørn T. Stokke		
09:00 – 09:40	KN3 O13	<u>Kazunari Akiyoshi</u> Polysaccharide nanogel tectonics for advanced biomaterials
09:44 – 10:00	O14	<u>Eleonóra P. Jonášová</u> and Bjørn T. Stokke Understanding DNA responsive hydrogels
10:00 – 10:20	O15	<u>Sravani K Ramisetty</u>, Petter Langlete and Rita S Dias Synergy of DNA-bridging protein and macromolecular crowding in DNA condensation
10:20 – 10:40	Break	
10:40 – 11:00	O16	<u>Makoto Takemasa</u>, Masahiro Fujita, and Mizuo Maeda Single molecular analysis of biomolecules using a solid state nanopore
11:00 – 11:20	O17	<u>Line Aa. Omtvedt</u>, Marianne Ø. Dalheim, Thorbjørn T. Nielsen, Kim L. Larsen, Berit L. Strand, and Finn L. Aachmann Alginate Grafted with Cyclodextrin: A Potential Release System for Biomedical Molecules
11:20 – 11:40	O18	<u>Berit L. Strand</u>, Marianne Ø. Dalheim, Julie Vanacker, Finn L. Aachmann¹ Gudmund Skjåk-Bræk and Bjørn E. Christensen Functionalisation of alginates for tissue engineering applications
11:40 – 12:00	O19	<u>Julie Nilsen-Nygaard</u>, Magnus N. Hattrem and Kurt I. Draget Propylene glycol alginate (PGA) gelled foams: A systematic study of surface activity and gelling properties as a function of degree of esterification
12:00 – 13:00	Lunch	