

**KIFEE Symposium**  
**Kyoto, March 7-10, 2017**  
**Session Program for Advanced Biological Materials**



<b>March 8 13:30~18:00 Ryoshinkan Room405</b>		
Chair: Prof. Shinichi Kitamura (Osaka Pref. Univ.)		
13:30-14:05	KN1	Prof. Birte Svensson (DTU, Denmark) “Discovery, occurrence, characterization and exploitation of surface binding sites of carbohydrate-active enzymes”
14:05-14:25	OP1	Dr. Kouji Ohdan (Glico Co.) “Enzymatic conversion of carbohydrate biomass to $\alpha$ -glucans”
14:25-14:45	OP2	Dr. Makoto Takemasa (Waseda Univ.) “Essential differences in DP61 and DP62 of large-ring cyclodextrin in the mixture with HMHEC – seeking new horizons of polysaccharide functionalization”
14:45-15:00		Break
Chair: Prof. Kazunari Akiyoshi (Kyoto Univ.)		
15:00-15:20	OP3	Shizuka Takebe (Osaka Pref. Univ.) “Structure and Intestinal Immunostimulating Activity of Different Molecular Weight Fucoidan from <i>Cladosiphon novae-caledoniae</i> ”
15:20-15:40	OP4	Prof Berit L Strand (NTNU) “Mechanical properties of composite hydrogels of alginate and cellulose nanofibrils”
15:40-16:00	OP5	Dr Marianne Dalheim (NTNU) “Chemically modified alginates – macromolecular properties after lateral functionalization by reductive amination”
16:00-16:20	OP6	Prof. Yoshihiro Sasaki (Kyoto Univ.) “Nanogel-hybrid materials for biomedical applications”
16:20-16:30		Break

16:30-18:00 Poster session

Kambai-kan, B1F Conference Room A

	PP1	Ingrid Vikøren Mo (NTNU) “Preparation of Oligosaccharide-Dihydrazide Hybrids”
	PP2	Keita Tateiwa (Osaka Pref. Univ.) “The dispersion of CNTs with glucuronoxylan and its application to the preparation of CNT-polymer nanocomposites”
	PP3	Gaston Courtade (NTNU) “Interactions of a fungal lytic polysaccharide monooxygenase with $\beta$ -glucan substrates and cellobiose dehydrogenase”
	PP4	Daiki Kawamoto (Kindai Univ.) “A family GH19 chitinase mutant completely lacking loop structures”
	PP5	Tomoya Takashima (Kindai Univ.) “Structure and function of a two-domain GH19 chitinase allergen from Japanese cedar pollen”
	PP6	Jun Tanaka (Kindai Univ.) “Enzymatic properties of a rice GH19 chitinase lacking a major loop structure involved in chitin binding”
	PP7	Yusuke Morimoto (Kindai Univ.) “ <i>N,N,N</i> -trimethyl-D-glucosaminyl (TMG) chitotriomycin: An inhibitor toward GH20 $\beta$ - <i>N</i> -acetylglucosaminidases”
	PP8	Kimihiko Satoh (Koyo Chemical Co.) “How to utilize chitin polysaccharides as renewable biological materials?”
	PP9	Natasa Zurzul (NTNU) “Development of a sensor based on molecule responsive hydrogels with an interferometric readout”
	PP10	Ryosuke Takahashi (Osaka Pref. Univ.) “Establishment of online two-dimensional HPLC system targeting lipid compounds molecular species”

	PP11	Masanori Fujita (Osaka Pref. Univ.) “Neural stem/progenitor cells cultured on the Matrigel-immobilized polyacrylate-grafted polyamide mesh”
	PP12	Sinsuke Fukui (Osaka Pref. Univ.) “Growth of Adhesive Cells on Amphiphilic Polymer Particles and its Function in Three-Dimensional Culture System”
18:30-	<b>Banquet (General Participants)</b> <b>Student Get Together (Registered StudentParticipants)</b>	

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<b>March 9 13:00~17:30 Ryoshinkan Room405</b>		
Chair: Prof. Tamo Fukamizo (Kindai Univ.)		
13:00-13:30	KN2	Prof. Finn L. Aachmann (NTNU) “Lytic Polysaccharide Monooxygenase – from the NMR point of View”
13:30-14:00	KN3	Prof. Kiyohiko Igarashi (Univ. of Tokyo) “How to translate the molecular information of cellulases into the actual biomass saccharification? Beyond trillionths differences”
14:00-14:20	OP7	Dr. Kazuhiko Ishikawa (AIST) “Hyperthermophilic Cellulases from Extremophile”
14:20-14:40	OP8	Yoshihito Kitaoku (Kindai Univ.) “NMR solution structures and chitin binding abilities of LysM domains from <i>Volvox carteri</i> ”
14:40-14:55		Break
Chair: Prof. Masayuki Hara (Osaka Pref. Univ.)		
14:55-15:15	OP9	Prof Bjørn T Stokke (NTNU) “Droplet based microfluidic synthesis of Ca-alginate gel beads”
15:15-15:35	OP10	Dr. Yoshiaki Yuguchi (Osaka Electro-Commun. Univ.) "Gelation of polysaccharides observed by SAXS"
15:35-15:55	OP11	Prof. Tamotsu Zako (Ehime Univ.) “Ultrasensitive detection of biomolecules using aggregation of functionalized gold nanoparticles”
15:55-16:15	OP12	Prof. Mikael Lindgren (NTNU) “Novel thiophene-based pentamer ligands for multiphoton microscopy of amyloid aggregates”
16:15-16:30		Break

Chair: Prof. Bjorn Stokke (NTNU)		
16:30-16:50	OP13	Prof Kurt I Draget (NTNU) “Gelatin gels containing bioactives; challenges and opportunities”
16:50-17:10	OP14	Prof. Masahiro Yasuda (Osaka Pref. Univ.) “Adsorption and immobilization of lipase on charged polymer particle having graft reactive polymer chain”
17:10-17:30	OP15	Prof. Masayuki Hara (Osaka Pref. Univ.) “Studies on the wool hair keratin as the substrate for cell culture”
18:30-	The NorAlmni (Invited participants only)	