

Program Overview

Oral Sessions : COEX Conference Center Room 330

Poster Session : In front of Room 330

Time	Sun / June 4	Mon / June 5	Tue / June 6	Wed / June 7
08:00		Registration	Registration	
08:30		Opening		
09:00		Oral Session I	Oral Session V	Oral Session VIII
10:30		Coffee Break		
11:00		Oral Session II	Oral Session VI	Oral Session IX
12:30		Lunch at O'Kims Braeuhaus in COEX		
14:00		Oral Session III	Poster Session Novozymes' Coffee Break	CITY TOUR
15:30		Coffee Break		
16:00		Oral Session VI	Oral Session VII	
17:00		Registration starts at 17:00		
18:00	in Hotel ibis	Poster Setup	Break	
19:00	Welcome Dinner at Phoenix, POSCO	Dinner at COEX Conference Center, Room 321	Dinner at Genji, POSCO Compliments of Novozymes Korea	Conference Banquet at N Seoul Tower City Night View

ORAL SESSION
DAY 1 : Monday, June 5

4th International Conference on Textile Biotechnology
Seoul, South Korea June 4-7, 2006
www.INTB.org



08 : 30	Opening : Conference Chair of INTB06 Welcoming Address : <i>Dr. Key H. Kim</i> , President of KITECH <i>Prof. Tae Jin Kang</i> , President of the Korean Fiber Society		
09:00	Session I (Chair: Herman Lenting)		
09:00	1	Artur Cavaco- Paulo	Learning lessons from nature for fibre bioprocessing and bioengineering
09:30	2	<i>Jinsong Shen</i>	Development of enzymatic shrink-resist process based on modified proteases for wool machine washability
09:50	3	<i>Rita Araujo</i>	Genetic engineering of subtilisin for wool finishing
10:10	4	<i>Joao Cortez</i>	The modification of wool properties through the grafting of peptides via transglutaminases
10:30	Coffee break		
11:00	Session II (Chair: Jinsong Shen)		
11:00	5	Georg Guebitz	Mechanistic aspects of enzymatic surface hydrolysis of polyamide and polyester
11:30	6	<i>Ki Hoon Lee</i>	Immobilization of enzyme on silk protein fibers and beads
11:50	7	<i>M. Schroeder</i>	Modification of enzymes with polyethylene glycol for fibre processing
12:10	8	<i>A. Catarina Queiroga</i>	Catalytic activities of novel microbial enzymes aimed at applications in the wool industry
12:30	Lunch		
14:00	Session III (Chair: Juergen Andreaus)		
14:00	9	Giovanni Sannia	Laccase-mediated remazol brilliant blue R decolorization in a fixed-bed bioreactor
14:30	10	<i>T. Keshavarz</i>	Effect of mannan oligosaccharide elicitor and ferulic acid on enhancement of laccases production in liquid cultures of basidiomycetes
14:50	11	<i>G. C. Varese</i>	Biosorption of simulated dyed effluents by living and inactivated fungal biomasses
15:10	12	<i>Sangyong Kim</i>	Zero emission of dye wastewater by membrane bioreactor
15:30	Coffee break		
16:00	Session IV (Chair: Artur Cavaco-Paulo)		
16:00	13	<i>Teresa Matama</i>	Enzymatic modification of acrylic fibers
16:20	14	<i>Sonja Heumann</i>	A new polyamidase from <i>Nocardia farcinica</i>
16:40	15	<i>J. Marek</i>	Enzymes are breaking through the barriers of synthetic textile substrate modification
17:00	16	<i>Thidarat Nimchua</i>	Modification of the properties of synthetic polyester fibres with microbial cutinases
17:20	17	<i>V. A. Nierstrasz</i>	Surface modification of poly(ethylene terephthalate) using cutinases
17:40	18	<i>Juergen Andreaus</i>	Advances in the biomodification of polyesters and oligomers of terephthalic acid

End at 18:00

ORAL SESSION
DAY 2 : Tuesday, June 6

4th International Conference on Textile Biotechnology
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09:00	Session V (Chair: S.K. Obendorf)		
09:00	19	Jian Chen	Application of biotechnology in textile industries in China
09:30	20	<i>Klaus Opwis</i>	Strategies for the immobilization of enzymes on textile carrier materials
09:50	21	<i>Holger Fischer</i>	Enzymatic modification of hemp fibres for sustainable production of high quality materials: Effects on chemical fibre composition
10:10	22	<i>Su-yeon Kim</i>	Enzymatic polymerization on the surface of functionalized cellulosic fiber
10:30	Coffee break		
11:00	Session VI (Chair: Ian R. Hardin)		
11:00	23	S. K. Obendorf	Performance of lipase in fabric care products: microscopy study of lipid soil distribution on fabrics with different chemical accessibility after laundering
11:30	24	<i>Sho Yeung Kang</i>	Effect of enzymes present in laundry detergents on color of naturally colored cotton
11:50	25	<i>Guifang Wu</i>	Bleaching textiles with carbohydrate oxidase
12:10	26	<i>Emilia Csiszar</i>	Oxidative enzymes in biopreparation of cotton and linen fabrics
12:30	Lunch		
14:00	<p>POSTER Session (Standing Hour) - open till 11: 00 a.m. Wednesday, June 7</p> <p>Novozymes Korea's Coffee break</p>		
16:30	Session VII (Chair: Georg Guebitz)		
16:30	27	Herman Lenting	Enzyme-based and integrated cotton pretreatment process concept for continuous production
17:00	28	<i>Qiang Wang</i>	Adsorption and degradation properties of pectinase in cotton bioscouring
17:20	29	<i>Antonov V</i>	Enzymes – new chance for flax and hemp
17:40	30	<i>H.-J. Shin</i>	Bio-scouring of cotton fabrics by extracellular pectinase from <i>Aspergillus</i> sp.,

Ends at 18:00

ORAL SESSION
DAY 3 : Wednesday, June 7

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09:00	Session VIII (Chair: Eun Kyung Choe)		
09:00	31	<i>Herman Lenting</i>	Drug delivery systems: history, recent developments and chances for biotechnology and textiles
09:30	32	<i>Bhupender S. Gupta</i>	Performance of polymers, fibers, and textiles in medicine
09:50	33	<i>Dong Won Jeon</i>	Depolymerization of chitosans by chitosanase from <i>Aureobacterium</i> sp. YL
10:10	34	<i>Sung Hoon Jeong</i>	Antibacterial finishing on textiles with nanosized silver complex
10:30	Coffee break		
11:00	Session IX (Chair: Sung Hoon Jeong)		
11:00	35	<i>Ian R. Hardin</i>	The effect of seed coat fragment chemistry on biopreparation
11:30	36	<i>Juhea Kim</i>	Possibility of the bio-scouring and dyeing in one-bath
11:50	37	<i>Xuerong Fan</i>	Study on the enzymatic scouring of linen/cotton fabrics
12:10	38	<i>Prontip Saebae</i>	A kinetic for enzymatic cotton scouring

Ends at 12:30

I. Enzymology		
P1	Zhaozhe Hua	Enhanced biosynthesis of catalase used for cleaner production in bleaching
P2	Guocheng Du	Screening of PVA-degrading enzymes producing microorganism and the application of PVA-degrading enzyme in desizing
P3	Fernanda de Sousa	A new protease from <i>Bacillus cereus</i> with high specificity for wool cuticule scales
II. Synthetic fibers		
P4	Juheha Kim	The effect of enzymatic treatment of PLA fabric
P5	Anita Eberl	Enzymatic surface modification of polytrimethyleneterephthalate
III. Cellulosic fibers		
P6	Hyun Kyung Lee	Effect of high temperature pre- and after-treatments on scouring performance of cotton
P7	Klaus Opwis	Combined use of enzymes in the pretreatment of cotton
P8	Zhaozhe Hua	A pilot-plant study on the production of catalase used in cotton bleaching
P9	Guocheng Du	Cutinase production and its application in cotton scouring
P10	Jian Chen	Stability of alkaline pectinase applied in cotton scouring
P11	Wang Ping	A study on pretreatment of naturally colored cotton fabric with enzyme
P12	A. Catarina Queiroga	Enzymatic treatment versus conventional processing of cotton
P13	Xuerong Fan	Cold pad-batch preparation for cotton fabrics with enzymes
P14	Xuerong Fan	Enzymatic preparation of cotton woven fabrics: pre-oxidation process
P15	Qiang Wang	Scouring of cotton knitted fabrics with β -cyclodextrin and pectinase
P16	Xuerong Fan	Analysis on influence factors of cotton wettability
P17	Hae-Sung Lee	Effect of UV irradiation on enzyme degradation of cellulose acetate containing titanium dioxide
P18	Petra Forte Tavčer	The influence of cellulases on terry cloth
P19	Pavla Križman	Activated peracetic bleaching
P20	Weidong Gao	Effect of pretreatment of enzyme on cotton fabric wettability
P21	Jadwiga Sójka-Ledakowicz	Bio-scouring of linen fabrics with laccase complex from <i>Cerrena unicolor</i>
P22	Yanbo Liu	Enzymatic bio-polishing of polyester and polyester/cotton blended fabric

III. Cellulosic fibers (ctd.)

P23	<i>Juhe Kim</i>	Property changes of organic coloured cotton by various pre-treatments
P24	<i>Young Un Kim</i>	Effect of enzyme pretreatments on the silket finishing of cotton yarns
P25	<i>Marc Schroeder</i>	Laccase induced coupling of functional phenolics on lingocellulosic materials

IV. Protein fibers

P26	<i>Suzana Jus</i>	A comparative study of wool fiber modification using proteases
P27	<i>Guocheng Du</i>	Microbial transglutaminase(MTG) production from streptomyces hygroscopicus WSH03-13 and its application on the processing of wool textiles
P28	<i>Y. J. Cho</i>	Production of Gardenia blue dye for dyeing protein fibers
P29	<i>M. Parvinzadeh</i>	Some physical properties of protease treated polyester/wool blend fabrics
P30	<i>Amir. Kiumarsi</i>	Dyeing wool fabric using red yeast rice pigment
P31	<i>Yoon Jung Kwon</i>	Effect of earthworm protease on the dyeing properties of protein fibers
P32	<i>M. Parvinzadeh</i>	Effect of proteolytic enzyme on dyeing of wool with madder
P33	<i>Isabel C. Gouveia</i>	Dyeing wool fibres pre-treated with cellulases, hemicellulases and pectinases: effect on vegetable matter degradation
P34	<i>Carlos Basto</i>	Sono-enzymatic coloration of wool
P35	<i>V. A. Nierstrasz</i>	The performance of cutinase and pectinase in cotton bioscouring. A novel and fast low temperature bioscouring process
P36	<i>Taesung Han</i>	A study on the enzyme treatment of wool
P37	<i>Amir Kiumarsi</i>	Dyeing silk yarns with pistacia atlantica leaves

V. Effluent treatment

P38	<i>S. Ledakowicz</i>	Kinetics of enzymatic decolorization of textile dyes by laccase
P39	<i>Jadwiga Sójka-Ledakowicz</i>	Integration of membrane and biological methods in textile wastewater treatment
P40	<i>Chulhwan Park</i>	Mechanism for decolorization of synthetic dyes by fungi
P41	<i>Vanja Kokol</i>	Decolorization of textile dyes by whole cultures of <i>Ischnoderma resinsum</i> and by purified laccase and Mn-peroxidase
P42	<i>S. Vanhulle</i>	Sustainable process for the treatment and detoxification of dye contaminated industrial effluents
P43	<i>S. Vanhulle</i>	Biodecolourization of three anthraquinonic dyes with close chemical structures by <i>pycnoporus sanguineus</i> (PS7)
P44	<i>Kumarasamy Murugesan</i>	Decolourization of reactive dyes by extracellular laccase produced from <i>ganoderma lucidum</i> under solid state fermentation

V. Effluent treatment (ctd.)

P45	<i>Andrea Zille</i>	Enzymatic degradation of azo dyes under long time oxidative conditions
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VI. Chemistry & Analysis

P46	<i>Qiang Wang</i>	FT-IR ATR spectroscopy and microscopy characterization of bioscoured cotton fabrics
P47	<i>Qiang Wang</i>	Optimizing bioscouring conditions of cotton knitted fabrics with an alkaline pectinase from bacillus subtilis WSHB04-02 by using response surface methodology
P48	<i>E. K. Choe</i>	Correlation of FT-IR peaks with absorbency of cotton fabrics for quality control of scouring process
P49	<i>Mojca Bozic</i>	Enzymatic redox reactions of vat dyes

VII. Future prospects

P50	<i>Andreia Vasconcelos</i>	Detergent formulations for wool domestic washings containing immobilized enzymes
P51	<i>Minsung Kang</i>	Cell proliferation on electrospun fibrous membranes
P52	<i>Anna Anghileri</i>	Tyrosinase-catalyzed grafting of sericin peptides onto chitosan and production of protein-polysaccharide bioconjugates
P53	<i>Minsung Kang</i>	Electrospun silk nanofibers with carbon nanotubes
P54	<i>Eun Hwan Jeong</i>	Electrospinning of cationic polyurethane nanofiber mats for antimicrobial applications
P55	<i>Hyun Jeong Jeon</i>	Synthesis of highly isotactic poly(vinyl alcohol) for biomedical applications
P56	<i>Ji Hye Hong</i>	Biodegradable polyurethanes derived from poly(ϵ -caprolactone-co- β -butyrolactone)
P57	<i>Wen-Ji Jin</i>	Antimicrobial poly(vinyl alcohol) nanofibers containing silver nanoparticles
P58	<i>Wen-Ji Jin</i>	A simple one-step method for preparing antimicrobial polymer nanofiber mats
P59	<i>Jian Chen</i>	Biodegradation of poly vinyl alcohol(PVA) by a mixed microbial culture
P60	<i>Hyun-Sook Bae</i>	Functional modification of sanitary nonwoven fabrics by chitosan treatment (Part II) - change of physical properties -
P61	<i>Cheol Soo Yoon</i>	Preparation and characterization of PLLA/PEG blends for bioabsorbable suture
P62	<i>Cheol Soo Yoon</i>	In vivo degradation and biocompatibility of PLLA/PEG blend filament
P63	<i>Dong Won Jeon</i>	Antibacterial activity of water-soluble chitin against MRSA and antibacterial activity of polyurethane foam type wound care containing water-soluble chitin and chitosan
P64	<i>Han Jin Oh</i>	Development of continuous membrane reactor using enzyme immobilized silk nanofibers
P65	<i>Nguyen Thanh Nga</i>	Overview of biotechnology application in Vietnamese textile industry and forecast the future trend in biotechnology application in Vietnam