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<tbody>
<tr>
<td>09.00</td>
<td>Welcome, Auditorium</td>
<td>Welcome, Auditorium</td>
<td>PL2 - Plenary session, Auditorium</td>
<td>PL3 - Plenary session, Auditorium</td>
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<tr>
<td>10.00</td>
<td>C1 - Chitosoligosaccharides, Auditorium</td>
<td>F1 - Food, Textile and Diverse applications, Hall Teatro</td>
<td>C3 - Chitosoligosaccharides, Auditorium</td>
<td>P2 - Physico-chemical, Hall Teatro</td>
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<tr>
<td>11.00</td>
<td>Coffee break</td>
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<tr>
<td>12.00</td>
<td>B1 - Biomedical applications, Auditorium</td>
<td>P1 - Physico-chemical, Hall Teatro</td>
<td>B3 - Biomedical applications, Auditorium</td>
<td>F2 - Food, Textile and Diverse applications, Hall Teatro</td>
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<tr>
<td>13.00</td>
<td>Lunch break</td>
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<td>14.00</td>
<td>PO1 - Poster session</td>
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<td>PO3 - Poster session</td>
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<td>15.00</td>
<td>C2 - Chitosoligosaccharides, Auditorium</td>
<td>E1 - Enzymatic, Hall Teatro</td>
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<td>B5 - Biomedical applications, Auditorium</td>
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<td>E3 - Enzymatic, Hall Teatro</td>
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<td>Registration</td>
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<td>18.00</td>
<td>B2 - Biomedical applications, Auditorium</td>
<td>F2 - Food, Textile and Diverse applications, Hall Teatro</td>
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<td>End of the Conference, Hall Teatro</td>
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<td>19.00</td>
<td>Welcome Party</td>
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# 9th International Conference of the European Chitin Society

**Venice, Italy, 23-26 May 2009**

**Sunday May 24, 2009, Morning**

**Plenary session - Auditorium**

9.00-09.15  **F. Rustichelli - Welcome**

9.15-10.00  **PL1 - L. Illum - A Nose for Chitosan**
Chairperson: **F. Rustichelli**

**Parallel Sessions**

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<thead>
<tr>
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<th>Hall Teatro</th>
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</table>
| **C1 Chitooligosaccharides**  
Chairperson: **M. Peter**  
10.00-10.25  **C1-1 I. Tikhonovich - Role of chitin-like compounds in microbe-plant signalling**  
10.25-10.45  **C1_2 J. Fernandes - Evaluation of the cytotoxicity and genotoxicity of chitooligosaccharides upon human lymphocytes**  
| **F1 Food, textile and diverse applications**  
Chairperson: **G. Payne**  
10.00-10.25  **F1-1 K. Varum - Tailoring of chitosans**  
10.25-10.45  **F1-2 F. Renault - Chitosan for flocculation processes - An eco-friendly approach**  |
| **B1 Biomedical applications**  
Chairpersons: **L. Illum/S. Strand**  
11.15-11.40  **B1-1 G. Di COLO - Chitosans as permeation enhancers**  
11.40-12.00  **B1-2 F. M. Goycoolea - Chitosan-based nanocapsules: characterization and application in drug delivery**  
12.00-12.20  **B1-3 V. Varlamov - Preparation of nanoparticles based on N-acylchitosan derivatives in the presence of tripolyphosphate**  
12.20-12.40  **B1-4 S. Barbieri - Chitosan/Lecithin autoassembled nanoparticles: a new carrier for oral delivery of tamoxifen**  
12.40-13.00  **B1-5 E. Basaran - Research proposal for the ocular application of cyclosporine a: chitosan nanoparticles versus restasis®**  
13.00-13.20  **B1-6 B. Luppi - Chitosan/pectin polyelectrolyte complexes for nasal delivery of antipsychotic drug.**  
| **P1 Physico-chemical**  
Chairperson: **G. Roberts**  
11.15-11.40  **P1-1 L. David - From chitosan solutions to hydrogels: role of sub-micrometric heterogeneities.**  
11.40-12.00  **P1-2 A. Tourrette - Influence of chitosan characteristics on the properties of stimuli-responsive poly(n-isopropylacrylamide)/chitosan microgels**  
12.00-12.20  **P1-3 S. Mikhailov - Dialdehyde derivatives of nucleosides and nucleotides: novel effective crosslinking reagents**  
12.20-12.40  **P1-4 S. Vilchez - Chitosan hydrogels crosslinked with carboxylic acids**  
12.40-13.00  **P1-5 S. Bratskaya - A generalized model of protolytic, complexing and colloidal properties of polyelectrolytes. Case study: N-(2-carboxyethyl)chitosans**  |
|  | **13.00-14.30 Lunch break** |
Sunda May 24, 2009, Afternoon

14.30-15.30 PO1 Poster session

Parallel Sessions

Auditorium

C2 Chitooligosaccharides
Chairperson: G.J.Tsai
15.30-15.55 C2-1 M. PETER - Mass Spectrometry of Aminoglucan Oligosaccharides Using Electrospray Ionization MS/MS and MS/MS/MS
15.55-16.15 C2-2 A. FURGIEULE - Obtention and characterization of chitooligosaccharides/ acrilic acid interpenetrating polymeric network hydrogels as drug delivery system
16.15-16.35 C2-3 S. TROMBOTTO - Chemical preparation and structural characterization of a homogeneous series of chitin/chitosan oligomers

Hall Teatro

E1 Enzymatic
Chairperson: B. Moerschbacher
15.30-15.55 E1-1 R. BRZEZINSKI - Chitosanases: chitosan hydrolysis and beyond
15.55-16.15 E1-2 M. KARLSSON - Diversity, domain-structures and phylogenetic relationships of family 18 glycoside hyrolases.

16.35-17.05 Coffee break

B2 Biomedical applications
Chairperson: C. M. Caramella
17.05.17.30 B2-1 S. SENEL - Veterinary applications of chitosan
17.30-17.50 B2-2 K. HEPPE - Chitosan as a pharmaceutical raw material
17.50-18.10 B2-3 A. MOCHALOVA - Adaptogenic properties of interpolymer chitosan - bee poison complexes on matrix of aurum nanoparticles under conditions of hypoxia and γ-irradiation
18.10-18.30 B2-4 E. B. DENKBAS - Chitosan Nanocarriers for Theragnosis

F2 Food, textile and diverse applications
Chairperson: T. Franco
17.05-17.25 F2-1 M. ROBITZER - Synthesis and characterization of new chitosan based catalysts
17.25-17.45 F2-2 F. QUIGNARD - High-throughput test of new chitosan based catalysts for Huisgens [1,3-dipolar] cycloaddition reaction between azides and alkynes
17.45-18.05 F2-3 D. KUREK - New chitin based affinity sorbents for purification of recombinant proteins
18.05-18.25 F2-4 S. FERNANDES - Novel Biocomposites Films Based on Chitosan and Bacterial Cellulose
18.25-18.45 F2-4 T. STEGMAIER - Chitosan in Textile Products and in Textile Procesing
### Plenary session - Auditorium

**09.00-09.45 PL2 G. PAYNE - A Soft Inter-Connect Between Biology And Electronics**  
Chairperson: K. Vaarum

#### Parallel Sessions

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<td>09.45-10.05</td>
<td>C3</td>
<td>Chitooligosaccharides</td>
<td>I.Tikhonovic</td>
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<tr>
<td>10.05-10.25</td>
<td>C3</td>
<td>Antioxidant activity of chitooligosaccharides upon two biological systems: Erythrocytes and Bacteriophages</td>
<td>J. FERNANDES</td>
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<td>10.25-10.45</td>
<td>C3</td>
<td>Preparation, fractionation and characterization of low-molecular-weight chitosans</td>
<td>G. TISHCHENKO</td>
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<td>10.45-11.15</td>
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<tr>
<td>11.15-11.40</td>
<td>B3</td>
<td>Some Bioadhesive and Haemostatic Properties of Chitosan/Poly(aspartic acid) Layered Films Surface Modified with RGD Peptides</td>
<td>S. HUDSON</td>
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<tr>
<td>11.40-12.00</td>
<td>B3</td>
<td>Chitosan-based Hemostatic Dressing for Surgical Applications</td>
<td>J. GUO</td>
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<tr>
<td>12.00-12.20</td>
<td>B3</td>
<td>Reducing postsurgical pericardial adhesions with keratinocyte growth factor and carboxymethylchitosan.</td>
<td>J. LOPES</td>
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<tr>
<td>12.20-12.45</td>
<td>B3</td>
<td>Chitosan based therapeutic systems for mucosal application</td>
<td>C. M. CARAMELLA</td>
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<tr>
<td>12.45-13.05</td>
<td>B3</td>
<td>Chitosan-based adhesive for biomedical applications</td>
<td>A. SERRERO</td>
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<tr>
<td>13.05-13.20</td>
<td>B3</td>
<td>Chitosan as bioactive polymer for the treatment of mucositis in cancer patients</td>
<td>A. PUCCIO</td>
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### Hall Teatro

**09.45-10.10 P2 | Physico-chemical**  
Chairperson: R. Chen

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<tr>
<td>09.45-10.10</td>
<td>P2</td>
<td>Synthesis of New Chitosan Derivatives by a Regioselective Mannich Reaction</td>
<td>H. SAIMOTO</td>
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<td>10.15-10.30</td>
<td>P2</td>
<td>Biosorption of Lead using Chitosan</td>
<td>M. BENAVENTE</td>
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<td>10.35-10.50</td>
<td>P2</td>
<td>Chitosan production byproducts as valuable material</td>
<td>M. HUSSAIN</td>
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<tr>
<td>11.15-11.40</td>
<td>F3</td>
<td>Chitosan biodegradable and intelligent packaging: monitoring variations</td>
<td>T. FRANCO</td>
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<tr>
<td>11.40-12.00</td>
<td>F3</td>
<td>Possible use of chitosan as a controlling agent in mixed culture of yeast and lactic acid bacteria</td>
<td>Y. H. PARK</td>
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<tr>
<td>12.00-12.20</td>
<td>F3</td>
<td>Multilayers and covalently grafted coatings based on chitosan and its derivatives for prevention bacteria adhesion</td>
<td>D. MARININ</td>
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<tr>
<td>12.20-12.40</td>
<td>F3</td>
<td>Lethal effect of Chitosan-Ag (I) film on foodborne pathogens as evaluated by electron microscopy</td>
<td>G. CARDENAS</td>
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12.40-14.30 Lunch break

14.30-15.30 PO2 Poster session
Tuesday May 26, 2009, Morning

Plenary Session - Auditorium
9.00-09.45 PL3 A. ANDO- Structure and function of chitosanase
Chairperson: M. M. Jaworska

Parallel Sessions

Auditorium

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<td>09.45-10.10</td>
<td>P3-1 G. ROBERTS</td>
<td>Chitosan-alginate gels</td>
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<td>10.10-10.30</td>
<td>P3-2 S. P. CAMPANA-FILHO</td>
<td>Ultrasound assisted deacetylation of beta chitin and the effects of the process parameters on the characteristics of the resulting chitosan.</td>
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<td>10.30-10.50</td>
<td>P3-3 V. F. URYASH</td>
<td>Influence of species of industrial crab and stages of its molting cycle on physicochemical properties of chitin</td>
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Hall Teatro

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<th>Time</th>
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<tbody>
<tr>
<td>09.45-10.10</td>
<td>E2-1 V. EIJSINK</td>
<td>Structure and Function of Chitinolytic Enzymes</td>
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<tr>
<td>10.10-10.30</td>
<td>E2-2 E. HEGGSET</td>
<td>Degradation of chitosans with chitinase G from Streptomyces coelicolor A3(2)</td>
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<tr>
<td>10.30-10.50</td>
<td>E2-3 C. NEERAJA</td>
<td>Swapping of chitin-binding domain enhances the binding ability to insoluble substrates of chitin by Bacillus chimeric chitinases</td>
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Coffee break

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<tr>
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<tbody>
<tr>
<td>10.50-11.15</td>
<td>B4-1 S. STRAND</td>
<td>Chitosans for gene delivery</td>
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<tr>
<td>11.15-12.00</td>
<td>B4-2 W. SAJOMSANG</td>
<td>Synthesis and Characterization of Methylated Chitosans Containing Aromatic Moieties as Gene Carriers</td>
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<td>12.00-12.20</td>
<td>B4-3 C. COLONNA</td>
<td>Chitosan in Nanoparticles for the Induction of Reversible Hypometabolism.</td>
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<td>12.20-12.40</td>
<td>B4-4 R. DORATI</td>
<td>Chitosan in Tissue Engineering: Design of Hybrid Porous Scaffolds for Bone Regeneration</td>
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<td>12.40-13.00</td>
<td>B4-5 M. MATOS RUIZ</td>
<td>Morphological and rheological study of chitosan solutions and hydrogels croslinked covalently with genipin for scaffolds</td>
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Lunch break

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<td>15.30</td>
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<td>E3 Enzymatic</td>
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<td>Chairperson: V. Varlamov</td>
<td>Chairperson: V.G.H. Eijsink</td>
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<tr>
<td>15.30-15.55</td>
<td>B5-1 I. C. KWON - Self-assembled glycol chitosan nanoparticles for cancer imaging and therapy</td>
<td>15.30-15.55 E3-1 M. M. JAWORSKA - Kinetics of enzymatic deacetylation of chitosan</td>
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<td>16.15-16.35</td>
<td>B5-3 V. ALEXANDROVA - Development of The Chitosan Derivatives Exhibiting Antimutagenic Activity and Polyelectrolyte Microparticles on Their Basis</td>
<td>16.15-16.35 E3-3 V. SEIDL - The chitinolytic enzyme machinery of the mycoparasitic fungus <em>Trichoderma Atroviride</em></td>
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<td>16.35-16.55</td>
<td>B5-4 A. HEPPE - Wasteless, environmental friendly and traceable Chitin/Chitosan/Glucosamine production for pharmaceutical and industrial applications</td>
<td>16.35-16.55 E3-4 T. STAUENBERGER - Novel thermoacidophilic chitinase from the crenarchaeon Sulfolobus tokodaii</td>
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<td>16.55-17.15</td>
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<td>16.55-17.15 E3-5 B. MOERSCHBACHER - Bio-engineering of chitosan with non-random patterns of acetylation - A novel sequence-specific chitosan hydrolase generating oligomers with block-PA</td>
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**17.15-18.00 Closing Ceremony**

**18.00 End of the Conference**
14.30-15.30  PO1 Poster session

PO1-1  V.G.H. EIJSINK - Mapping the roles of residues involved in substrate-binding and catalysis in a family 19 chitinase from Streptomyces coelicolor

PO1-2  V.G.H. EIJSINK - Cloning and characterization of a broad-specificity family 4 carbohydrate esterase from Aspergillus nidulans

PO1-3  V.G.H. EIJSINK - Contribution of aromatic substrate-binding residues to processivity and biomass-converting efficiency of chitinase A from Serratia marcescens

PO1-4  M. SØRLIE - Analysis of Substrate Binding to a Family 18 Chitinase by Isothermal Titration Calorimetry and Surface Plasmon Resonance to Map Subsite Affinities and the Kinetics that Underly Processivity

PO1-5  M.F. VERSALI - Purification and characterization of a Myzus persicae chitinase

PO1-6  A.L. NORBERG - Biochemical Characterization of Chitotriosidase

PO1-7  C.-L. LIU - Colloid chitin azure is an effective substrate to evaluate chitinase

PO1-8  G. TISHCHENKO - Isolation and characterization of the extracellular complex of chitinolytic enzymes of Clostridium paraputrificum strain J4 colonizing human colon

PO1-9  D.H. JO - Partial Purification of Antifungal Chitinases from the Leaves of Korean Ginseng (Panax ginseng C.A. Meyer)

PO1-10  D.H. JO - Inhibition of Budding and Hyphal Growth of Fusarium Oxysporum by a Partially Purified Chitinase from the Leaves of Korean Ginseng (Panax Ginseng C. A. MEYER)

PO1-11  S.G. GRUBER - Regulation of fungal chitinases by cell wall fragments and their relevance for biocontrol

PO1-12  J. SIMUNEK - Chitinolytic activities of two Clostridia isolated from human faeces

PO1-13  C. CHIH-YU - Investigation of endo- and exo-type of chitosanase by protein structure simulation.

PO1-14  I. KOPPOVA - Enzymatic preparation of chitooligosaccharides and kinetic study of chitosanolysis

PO1-15  E.B. HEGGSET - Chitosan Degradation with Chitosanase Q9RJ88 from Streptomyces coelicolor A3(2)

PO1-16  T. CARVALHO - Removal of Cu (II) and Pb (II) by a Staphylococcus strain immobilized in chitosan beads

PO1-17  T. FRANCO - On the Depolymerization of Chitosan by Papain: a Re-assessment

PO1-18  T.L.M. STAMFORD - Antimicrobial Activity of Chitosan on Food Preservation


PO1-20  A.A. LVLOVA - Elicitor activity of chitosan and its derivatives

PO1-21  F. RENNAULT - Use of chitosan as a bioflocculant to treat biological wastewater from pulp and paper plant

PO1-22  S. BOONLERTNIRUN - Effects of Chitosan Application on Physiological and Morphological Responses of Field Corn Seedlings under Hypoxia

PO1-23  M. RUIZ - Adsorption of Reactive Black 5 by Chitosan in Fixed-Bed Systems

PO1-24  M. LASHERAS - ZUBIATE - Distinct complexing trends of chitosan with toxic metals

PO1-25  Z. AKRAM - Effect of growing time on the chitosan content of cell wall of zygomycetes fungi


PO1-27  Y.H. PARK - Selection control of yeast in a mixed culture with lactic and bacteria using low molecular weight chitosan

PO1-28  Y. SHIN - Green Chemistry in Natural Dyeing: Application of Chitosan for Dyeing Soybean/Cotton Blend Fabric

PO1-29  S.P. CAMPANA FILHO - Application of chitosan based membranes in alkaline fuel cells

PO1-30  A.E.M. YOUNIS - Production of chitosan and its used as sorbant

PO1-31  K. KHOUYA - Use of response surface methodology to optimise chitin extraction from red crabs for food applications.

PO1-32  H. PHAM THI BICH - Adsorption of methylene blue from aqueous solution using Chitosan Derivatives

PO1-33  E. YENILMEZ - Incorporation of α-Tocopherol into Chitosan Microspheres for Cosmetic Application
PO1-34  **D. CERIANI** - Computerised assessment of human nail growth rate after a new hydroxypropyl-chitosan biopolymer application

PO1-35  **J.S. NA.** - Study on water absorption ability of chitosan/acrylic films

PO1-36  **C. SOUZA** - Chitin-degrading Bacteria Isolated from Seawater Samples Collected in Three Marine Ecosystems

PO1-37  **M. SATHIYABAMA** - Treatment of chickpea seeds with chitosan induces accumulation of chitinase mRNA in roots, enhances resistance to Fusarium wilt

PO1-38  **H. PHAM THI BICH** - Anionic dye sorption from aqueous solutions on chitosan nanoparticles

PO1-39  **F. TAVARIA** - Application of chitosan in the textile industry to control microbial growth

PO1-40  **V. KURCHENKO** - Proteolysis of whey proteins after complex formation with chitosan
14.30-15.30  PO2 Poster session

PO2-1  C.F. BERGHOFF - Interaction studies of mixed matrices of chitosan- poly-ε-caprolactone and alendronate for bone tissue engineering

PO2-2  J. BALCERZAK - Controlled Drug Release from Biopolymer Systems of Various Geometry Based on Chitosan

PO2-3  C. CARAMELLA - Biocompatibility and penetration enhancement properties of chitosan associated solid lipid nanoparticles using RCE cell line

PO2-4  M. GUNBEYAZ - Cellular uptake studies of chitosan based delivery systems developed for mucosal immunisation against Bovine Herpesvirus Type 1 (BoHV-1)

PO2-5  S. MINAMI - Preparation of Biocompatible and Stable Chitosan-Carboxymethyl dextran nanoparticles

PO2-6  Y.B. KIM - How does chitinous substance keep the homeostasis and strengthen the immune systems enough to improve or heal various diseases? - the glycoside chains may explain it

PO2-7  P. PYO-JAM - Antimicrobial Activity of beta-chitosan from Arrow Squid (Doryteuthis Bleekerii) Pen

PO2-8  I.K. KWON - Genipin-Crosslinked Gelatin/Chitosan Scaffold for

PO2-9  J. AKBUGA - Comparison of Silencing Effect of Chitosan/psiRNA Complexes in Different Cell Lines

PO2-10  R. DORATI - Chitosan Coated PLGA Nanoparticles to Promote Targeted Cellular Up-take

PO2-11  B. LUPPI - Chitosan/hyaluronate polyelectrolyte complexes for peptide and protein NASAL DELIVERY

PO2-12  C. GORZELANNY - Human chitotriosidase – degradation of chitosan and chitin and its role within the innate immune response

PO2-13  C. CARAMELLA - Mucoadhesive properties of Palmitoyl Glycol Chitosan polymeric micelles

PO2-14  S. HEUKING - Novel chitosan derivative as plasmid DNA carrier system for pulmonary vaccination

PO2-15  C. AGUZZI - Intrinsic dissolution behaviour of mesalazine-loaded chitosan-clay biocomposites

PO2-16  C. CARAMELLA - Chitosan associated SLN loaded with insulin. Preliminary in vitro evaluation.

PO2-17  A. HERAS - Chitosan microspheres crosslinked with genipin for the controlled release of drugs

PO2-18  A. ABARRATEGI - In Vivo Study of Chitosan Scaffolds for Osteochondral Tissue Regeneration

PO2-19  Y.S. SHIN - Chitosan/BaSO4 Hybrid Fibers with Radiopaque Properties

PO2-20  T. SEN - Improvement of bioadhesiveness of chitosan by means of HPMC

PO2-21  B. TURKMEN - Furosemide Loaded Floating Chitosan Microspheres for Hypertension

PO2-22  S. AL-QADDI - In vivo evaluation of inhalable dry-powders containing insulin-loaded chitosan nanoparticles in rats

PO2-23  S. PRATA - Composite scaffolds for bone tissue regeneration

PO2-24  A. ESPIGA - Development of a new chitosan hydrogel for wound dressing

PO2-25  F. BIGUCCI - Chitosan/pectin polyelectrolyte complexes: characterization and application in colon-specific delivery systems

PO2-26  M. MATTOTTI - Micropatterned Chitosan for Neural Tissue Engineering: Differential Adhesion of CSN Neural Cells

PO2-27  L. CASETTARI - Synthesis of mPEG-chitosans and their application as drug carriers.

PO2-28  Y.C. HUANG - Surface Modified Chitosan Nerve Conduit for Repairing Spinal Cord Injury

PO2-29  C. HASCICEK - Preparation and Evaluation of PLGA Nanoparticulate Drug Delivery System with Different Surface Properties: Influence of Chitosan Content

PO2-30  B. SARMENTO - Chitosan particles entrapping Zanthoxylum tingoassuiba essential oil – antimicrobial activity

PO2-31  A. RAMPINO - Chitosan(s) based nanoparticles for protected delivery

PO2-32  C.H. KIM - Preparation of chitosan and chitosan based complex bead scaffolds with pore-interconnectivity

PO2-33  D.I. YOO - Effect of chitosan coating on wound healing property of PVA nanofibrous membrane
14.30-15.30  **PO3 Poster session**

**PO3-1**  D. WATERKAMP - Effect of milling process on chitosan characteristics
**PO3-2**  D. KUREK - Chitin of poriferan origin: isolation, identification and structural properties
**PO3-3**  M. MUCHA - Water Sorption Isotherms of Biopolymer and Its Blends with Nanofiller
**PO3-4**  R. S. JUANG - A Comparison of Adsorption Abilities of Chitosan and Its Derivatives for Heavy Metals from Aqueous Solutions
**PO3-5**  M. L. TSAI - Effect of degree of deacetylation of chitosan on physicochemical properties and cytotoxicity of chitosan/β-glycerolphosphate hydrogel
**PO3-6**  R. KHAIRULLIN - Rapid hydrogen peroxide production by wheat seedlings roots depending on chitooligosaccharides and probable function of wheat germ agglutinin
**PO3-7**  J. SIMUNEK - The antimicrobial action of low molecular weight chitosan and chitooligosaccharides on anaerobic bacteria isolated from human faeces
**PO3-8**  W. NEUGEBAUER - Oligochitosan Based Multiple Antigenic Peptide
**PO3-9**  S. STEUDE - Dissolution of chitin in ionic liquids
**PO3-10**  S. TROMBOTTO - Determination of the apparent pKa of chitosan dimers
**PO3-11**  L. SEUNG-JAE - Effect of Chitooligosaccharides on Antioxidative Enzyme Activities in Liver of Rats fed High Fat Diet
**PO3-12**  L.N. SHIROKOVA - Chitin derivatives as systems for metal nanoparticles stabilization
**PO3-13**  S. BRATSKAYA - Selective sorption of gold (iii), platinum (iv) and palladium (ii)
**PO3-14**  V.G.H. EIJSINK - Controlled production of chito-oligosaccharide mixtures with chitinases and chitosanases
**PO3-15**  E. GUIBAL - Recovery of Precious Metals Using Chitosan-based Hydrogels
**PO3-16**  T.C.M. STAMFORD - Physico-chemical characterization of chitosan from m. circinelloides
**PO3-17**  A. ALHALAWEH - Zolmitriptan-Chitosan Microparticles for Nasal Delivery prepared by Spray Drying
**PO3-18**  N. STAMFORD - Physico-chemical characterization of chitosan from shrimp litopenaeus vannamei
**PO3-19**  T.C.M. STAMFORD - Physico-chemical characterization of chitosan from M. circinelloides
**PO3-20**  C.J.P.G. NUÑEZ, GONZALEZ, CARDENAS - Bone substitute using cements of chitosans and additives
**PO3-21**  D. CERIANI - Physical properties of a new hydroxypropyl-chitosan biopolymer
**PO3-22**  J. S. NA - Miscibility of Beta-Chitosan/Gelatin Blend in Acetic solution by Density, Viscosity and Refractive index methods
**PO3-23**  J. Y. SIN - Molecular Stability of Beta-Chitosan in Hydrochloric, Acetic, Formic Acid Solutions
**PO3-24**  N. STROKOVA - Preparation and investigation of solutions of chitosan derivatives with long-chain substituents
**PO3-25**  G. CARDENAS - Magnetic colloids supported on chitosan by impregnation method.
**PO3-26**  V. NISTRATOV - Mechanical properties of chitosan films with different molecular weight
**PO3-27**  M. GORSHKOVA - Chitosan-based polyelectrolyte complexes soluble in a wide pH-range
**PO3-28**  J.W. KIM - Sonolysis of Chitooligomer in Various Acidic Solutions
**PO3-29**  H.RAHMAN - Can chitosan replace fungicides?
**PO3-30**  A. PESTOV - N-2-(2-Pyridyl)ethylchitosan – new chelate polymer
**PO3-31**  N.R. KILDEEVA - Preparation and physicochemical properties of chitosan gels and cryogels