



## **CONGRESS PROGRAMME**

## Wednesday, October 12, 2011

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<b>9:50-10:40</b>		<b>Chairs: Maja Rupnik, Marinka Drobnič Košorok</b>	<b>Hall TURNER</b>
9:50		OPENING OF THE MEETING	
10:00		OPENING LECTURE <u>Damjana Rozman</u> (Zois awardee 2009); <i>CYP51, cholesterol and disease</i>	
<b>10:40-11:00</b>		<b>Coffee brake/Sponsors time</b>	
<b>11:00-12:30</b>		<b>Section: FOOD MICROBIOLOGY</b> <b>Chairs: Selma Uzunovic-Kamberovic, Tatjana Rupel</b>	<b>Hall TURNER</b>
11:00	INV1	<u>Sava Buncic</u> <i>Microbial meat safety risk-reduction strategies farm-to-fork</i>	
11:25	INV2	<u>Bojana Bogovič Matijašič</u> <i>Recent chalenges related to the probiotics in food and dietary supplements</i>	
11:45	O1	<u>Marcela Pejchalova</u> , M. Kalatova, J. Vytrasova, P. Motkova <i>Study of influence of various factors on staphylococcal enterotoxin h (SEH) production</i>	
12:00	O2	<u>Nataša Kočar</u> , M. Oset, I.J. Košir, P. Raspor <i>Sugar utilisation from clasical hopped wort by yeast <i>Saccharomyces pastori</i>naus</i>	
12:15	O3	<u>Sonja Smole Možina</u> , Kovač J., Lušicky M <i>Prevalence and antibiotic resistance of thermotolerant <i>Campylobacter</i> sp. in retail chicken meat-trends and possible solutions</i>	
<b>11:00-12:30</b>		<b>Section: MOLECULAR BASIS OF DISEASE</b> <b>Chairs: Tamara Lah Turnšek, Janko Kos</b>	<b>Hall MINARIK</b>
11:00	INV3	<u>Siegfried Neumann</u> <i>Biomedical research for targeted therapy- potentials and problems</i>	
11:25	INV4	<u>Boris Rogelj</u> <i>RNA binding proteins in ALS/FTLD spectrum of diseases</i>	
11:45	O4	R. Keber, H. Motaln, K.D. Wagner, N. Debeljak, M. Rassoulzadegan, J. Ačimovič, D. Rozman, <u>Simon Horvat</u> <i>Knockout of lanosterol 14<math>\alpha</math>-demethylase (<i>Cyp51</i>) from the cholesterol synthesis pathway: a new mouse model of Antley-Bixler syndrome</i>	
12:00	O5	<u>Uroš Potočnik</u> , M. Mitrovič, K. Repnik, R.K. Weersma <i>Genome wide association study in Slovenian inflammatory bowel disease patients and eQTL analysis for linking non-coding gwas identified SNPs to genes they affect</i>	
12:15	O6	<u>Helena Motaln</u> , K. Gruden, M. Hren, M. Primon, Ch. Schichor, T.T. Lah <i>Human mesenchymal stem cells exploit the immune response mediating chemokines to impact the phenotype of glioblastoma</i>	
<b>12:30-14:00</b>		<b>LUNCH</b>	

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## Wednesday, October 12, 2011 (cont.)

<b>14:00-15:35</b>	<b>Section: DIAGNOSTICS AND TREATMENT OF THE DISEASE</b>	<b>Hall TURNER</b>
	<b>Chairs: Marinka Drobnič Košorok, Franz Allerberger</b>	
14:00	INV5	<u>Wijnand Helfrich</u> <i>Targeted delivery of the messengers of death for cancer therapy</i>
14:25	INV6	<u>Robert Krause</u> <i>What is the physician expecting from the microbiology laboratory</i>
14:50	O7	<u>Nina Erčulj</u> , B. Faganel Kotnik, M. Debeljak, J. Jazbec, V. Dolžan <i>The influence of folate pathway polymorphisms on methotrexate-related toxicity in childhood acute lymphoblastic leukaemia</i>
15:05	O8	<u>Gregor Serša</u> , E. Gadžijev, I. Edhemović, E. Brecelj, D. Miklavčič, B. Kos, A. Županič, B. Mali, J. Tomaž, G. Gasljevič, M. Čemažar, M. Snoj <i>Treatment of liver metastases by electrochemotherapy; new technological approach</i>
15:20	O9	<u>Helena Podgornik</u> , T. Malavašič, M. Sok, I. Kern, V. Smerdu, D. Černe <i>LPL mRNA detection in NSCLC tissue</i>
<b>15:35-16:00</b>	<b>Coffee brake/Sponsors time</b>	
<b>16:00-17:45</b>	<b>Section: MICROBIAL GENETICS, GENOMICS, PROTEOMICS</b>	<b>Hall TURNER</b>
	<b>Chairs: Darja Žgur-Bertok, Branka Javornik</b>	
16:00	INV7	<u>David C. Grainger</u> <i>Controlling chromosome structure in starved bacteria</i>
16:25	INV8	<u>Branka Javornik</u> <i>Fungal comparative genomics in Slovenia</i>
16:45	O10	<u>Katja Stare</u> , Š. Baebler, J. Renaut, K. Witek, J. Henning, K. Istenič, P. Jamnik, K. Gruden <i>Potato leaf proteome after infection with PVY</i>
17:00	O11	<u>Maša Vodovnik</u> , S.H. Duncan, M.D. Reid, L. Cantlay, R. Marinsek Logar, H.J. Flint <i>Substrate-driven changes in cellulosomes of <i>R. flavefaciens</i> strains 007C and 007S</i>
17:15	O12	<u>Tomaž Accetto</u> , G. Avguštin <i>The experimental and bioinformatic evidence showing that the translation initiation in <i>Bacteroidetes</i> is unique</i>
<b>16:00-17:45</b>	<b>Section: PROTEINS: STRUCTURE AND FUNCTION I</b>	<b>Hall MINARIK</b>
	<b>Chair: Marjetka Podobnik</b>	
16:00	INV9	<u>Kristina Djinovic-Carugo</u> <i>Conformational flexibility as the basis for activity of <i>E. coli</i> RNA chaperone Hfq</i>
16:25	INV10	<u>Igor Križaj</u> <i>Ammodytoxin: a window into understanding presynaptic toxicity of secreted phospholipases a2</i>
16:45	O13	<u>Matej Butala</u> , D. Klose, V. Hodnik, S. Sonjak, A. Rems, Z. Podlesek, J.P. Klare, D.F. Browning, G. Anderluh, S.J.W. Busby, H.J. Steinhoff, D. Žgur Bertok <i>Interconversion between bound and free conformations of LexA orchestrates the bacterial SOS response, the Colicin K case</i>
17:00	O14	<u>Anja Hafner</u> , N. Obermajer, G. Glavan, M. Živin, J. Kos <i>Cysteine carboxypeptidase cathepsin X regulates neurotrophic activity of <math>\gamma</math>-enolase</i>
17:15	O15	<u>Metka Lenassi</u> , M. Mihelič, D. Turk, A. Plemenitaš <i>The mechanism of HAL2 salt tolerance in fungi living in extreme saline environments</i>
17:30	O16	<u>Miha Pavšič</u> , G. Gunčar, K. Djinović-Carugo, B. Lenarčič; <i>Crystal structure of human epithelial cell adhesion molecule</i>

**Wednesday, October 12, 2011 (cont.)**

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**16:00-17:45**

**WORKSHOP**

**Hall PRIMOŽIČ**

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**MICROBIOLOGY EDUCATION AND CONSEQUENCES FOR FOOD SAFETY PRACTICE**

Lecturers:

Raspor Peter, Wilson Lester, Smole Možina Sonja, Borda Daniela, Brehm-Stecher Byron, Nicolau Anca

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**17:45-19:40**

**Poster Session I/ Sponsors time**

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**P1-P68**

Food microbiology; Molecular basis of disease; Diagnostics and treatment of the disease;

Proteins: structure and function; Microbial genetics, genomics, proteomics

**Halls TEPLY/VOKAČ/FOYER1/FOYER2/PRIOL**

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**20:00-**

**WELCOME RECEPTION**

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**Thursday, October 13, 2011**

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**8:30-10:00**                      **Section: PROTEINS: STRUCTURE AND FUNCTION II**                      **Hall MINARIK**  
**Chairs: Igor Križaj, Boris Turk**

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- 8:30    INV11   Luca Scorrano  
*Keeping mitochondria in shape: a matter of life and death*
- 8:55    INV12   Peter Maček  
*Sensing membrane lipid domains by pore-forming toxins*
- 9:15    O17       Jure Pohleven, M. Renko, D.F. Smith, Š. Magister, M. Künzler, D. Turk, B. Štrukelj, J. Kos, J. Sabotič  
*CNL, the GalNAc $\beta$ 1-4GlcNAc-specific lectin from basidiomycete *C. nebularis*, requires bivalent carbohydrate-binding property for its biological activity*
- 9:30    O18       Urška Dermol, V. Janardan, R. Tyagi, S.S. Visweswariah, M. Podobnik  
*Unique utilization of a calcineurin-like fold by a mammalian metallophosphodiesterase that is associated with the WAGR syndrome*
- 9:45    O19       Marko Novinec, B. Lenarčič, A. Baici  
*Novel insights into allosteric regulation of cysteine cathepsins*

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**8:30-10:00**                      **Section: ENVIRONMENTAL MICROBIOLOGY**                      **Hall TURNER**  
**Chairs: Valentina Turk, Gorazd Avguštin**

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- 8:30    INV13   Marialigeti Károly  
*Microbiology of drinking water*
- 8:55    INV14   Ines Mandič Mulec  
*Communication in soil bacteria*
- 9:15    O20       Jana Vojvoda, T. Tinta, V. Turk  
*Seasonal dynamics of ammonia oxidizing bacteria and archaea in the gulf of Trieste*
- 9:30    O21       Romana Marinšek Logar, D. Novak, B. Stres, E.T. Pirc, I.F. Whittle  
*Anaerobic degradation of cyanide – microbial community dynamics*
- 9:45    O22       Gorazd Avguštin, L. Fanel, V. Jerman, L. Bizjak Mali, B. Bulog, J. Ambrožič Avguštin  
*Molecular analysis of the gut microbiota of *Proteus anguinus**

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**10:00-10:30**                      **Coffee brake/Sponsors time**

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**10:30-12:00**                      **Section: MYCOLOGY**                      **Hall TURNER**  
**Chairs: Neža Čadež, Anna Maraz**

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- 10:30    INV15   Anna Maraz  
*Yeast cells as biosorbent for toxic heavy metals*
- 10:55    INV16   Tine Grebenc  
*Ecology and phylogeography of hypogeous fungi*
- 11:15    O23       Jure Zupan, M. Avbelj, B. Butinar, J. Kosel, M. Šergan, P. Raspor  
*Detecting yeast quorum-sensing molecules during mini-fermentation studies*
- 11:30    O24       Mirjana Bistan, R. Marinšek-Logar, T. Tišler  
*Application of genetically modified yeast *Saccharomyces cerevisiae* for detecting estrogenic active substances in wastewaters*
- 11:45    O25       M. Brunskole Švegelj, S. Turk, B. Brus, T. Lanišnik Rižner, J. Stojan, Stanislav Gobec  
*Novel inhibitors of trihydroxynaphthalene reductase with antifungal activity identified by ligand-based and structure-based virtual screening*

**Thursday, October 13, 2011 (cont.)**

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<b>10:30-12:00</b>	<b>Section: BIO-NANOTECHNOLOGY</b>	<b>Hall MINARIK</b>
	<b>Chair: Mojca Benčina</b>	

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- 10:30 INV17 Martin Fussenegger  
*Synthetic mammalian biology - from tools to therapies*
- 10:55 INV18 Helena Gradišar  
*Self-assembly of polypeptides into nanoscale structures*
- 11:15 O26 Matija Rojnik, P. Kocbek, F. Moret, C. Compagnin, L. Celotti, M.J. Bovis, J.H. Woodhams, A.J. MacRobert, D. Scheglmann, W. Helfrich, M.J. Verkaik, E. Papini, E. Reddi, J. Kos  
*Characterization in vitro and in vivo of temoporfin-loaded pegylated PLGA nanoparticles for use in photodynamic therapy*
- 11:30 O27 Jana Petković, T. Kuzma, K. Rade, S. Novak, M. Filipič  
*Increased toxic potential of nano-sized and submicron-sized anatase TiO<sub>2</sub> particles after pre-irradiation with UV in human hepatoma HepG2 cells*
- 11:45 O28 Špela Peternel  
*Active protein nanoparticles (non-classical inclusion bodies) produced in E. coli: production, purification and applications*

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<b>12:00-13:30</b>	<b>LUNCH</b>
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<b>13:30-15:05</b>	<b>Section: IMMUNOLOGY, PARASITOLOGY AND ZONOTIC DISEASES</b>	<b>Hall TURNER</b>
	<b>Chairs: Matjaž Ocepek, Mojca Narat</b>	

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- 13:30 INV19 Maja Abram  
*Host immune response to Listeria monocytogenes infection*
- 13:55 INV20 Barbara Gerič Stare  
*Major nematode threats to Slovenian agriculture and forestry*
- 14:15 INV21 Darja Duh  
*Endless list of tick transmitted microorganisms in Europe: are they all important?*
- 14:40 INV22 Andrej Steyer  
*The interplay of human and animal rotaviruses*

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<b>13:30-15:05</b>	<b>SBD ASSEMBLY AND LECTURES OF LAPANJE AWARDEES</b>	<b>Hall MINARIK</b>
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- 13:30-14:15 SBD Assembly
- 14:15 L1 Roman Jerala  
*Constructive structure-function relationship as the source of inspiration and discovery in life sciences*
- 14:45 L2 Mateja Manček Keber  
*Role of TLR4 receptor in infection and sterile induced threat*

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<b>15:05-15:30</b>	<b>Coffee brake/Sponsors time</b>
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**15:30-17:00**

**ROUND TABLE**

**Hall MINARIK**

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INNOVATIONS AND TECHNOLOGY TRANSFER IN SCIENCE

Moderator: Robert Blatnik

Gostje: dr. Franc Gider, Javna agencija za tehnološki razvoj Republike Slovenije; mag. Janko Burgar, Ministrstvo za gospodarstvo; dr. Klemen Španinger, Diagenomi, d.o.o.

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**17:00-18:30**

**Poster Session II/ Sponsors time**

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**P69-P107**

Environmental microbiology; Mycology; Bio-nanotechnology; Immunology,  
Parasitology and zoonotic diseases; Infectious disease

**Halls TEPLY/VOKAČ/FOYER1/FOYER2/PRIOL**

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**18:30-**

**Dinner at Hotel Habakuk (Night trip with torch to Pohorje-to be confirmed)**

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**Friday, October 14, 2011**

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**8:30-10:00** **Section: AGRICULTURAL MICROBIOLOGY** **Hall TURNER**  
**Chairs: Maja Ravnikar, Ines Mandič-Mulec**

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- 8:30 INV23 Neil Boonham  
*New generation sequencing in diagnostics: searching for the unknown*
- 8:55 INV24 Marina Dermastia  
*Phytoplasmal infections of crops - the darker side of Christmas decoration*
- 9:15 O29 Levin Pal, B. Stres, T. Danevčič, S. Leskovec, I. Mandič-Mulec  
*Nitrogen and carbon dynamics in Ljubljana marsh peat soil*
- 9:30 O30 Tanja Dreo, M. Ravnikar, B. Duffy  
*Multiple loci VNTR analysis (MLVA) in population studies of plant pathogenic bacteria*
- 9:45 O31 Neža Čadež, F. Čuš, D. Miklič-Milek, J. Zupan, P. Raspor  
*Fungicides as factor influencing biodiversity of yeasts on grape berries*
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**8:30-10:00** **Section: CELL SIGNALLING AND MEMBRANES** **Hall MINARIK**  
**Chairs: Ana Plemenitaš, Gregor Anderluh**

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- 8:30 INV25 Thorsten Nürnberger  
*Patterns and receptors in plant innate immunity*
- 8:55 INV26 Ana Plemenitaš  
*Sensing and responding to high NaCl concentration: HOG signal transduction pathway in fungi adapted to life in extremely salty environments*
- 9:15 O32 Valentina Kubale, R. Lyngaa, T. Benced-Jensen, M. Vrecl, A. Pogačnik, T. Kledal, M.M. Rosenkilde  
*Human Epstein-Barr virus (EBV)-encoded BILF1 and its porcine homologs: signaling pattern and tumor formation*
- 9:30 O33 Lidija Kovačič, M. Novinec, T. Petan, A. Baici, I. Križaj  
*Characterization of ammodityxin's interaction with its intracellular binding proteins to explain their role in the process of neurotoxicity*
- 9:45 O34 Matjaž Deželak, A. Bavec  
*Third intracellular loop of glucagon like-peptide-1 receptor is coupled with endogenous mono-ADP-ribosyltransferase - novel type of receptor regulation?*
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**10:00-10:30** **Coffee break/Sponsors time**

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**10:30-12:05** **Section: HOST-PATHOGEN INTERACTIONS** **Hall TURNER**  
**Chairs: Mateja Manček Keber, Srečko Koren**

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- 10:30 INV27 Eicke Latz  
*Recognition of danger and pathogens by inflammasomes*
- 10:55 INV28 Robert Fleishmann  
*Tumor cells containing cell – associated IL – 15 as a cancer vaccine*
- 11:20 O35 Iva Hafner-Bratkovič, M. Benčina, M. Manček-Keber, K. Fitzgerald, D. Golenbock, R. Jerala  
*NLRP3 inflammasome activation by prion protein fibrils*
- 11:35 O36 Jure Škraban, M. Medved, M. Rupnik  
*A novel approach for molecular analysis of the bacterial, fungal and archaeal gut microbiota*
- 11:50 O37 Ivana Indikova, M. Szostak, C. Citti, R. Rosengarten  
*The role of GAPA and CRMA cytoadherence proteins in virulence of M. gallisepticum*
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**12:05-13:30** **LUNCH**

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**Friday, October 14, 2011 (cont.)**

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**15:30-17:20** **Section: BIOTECHNOLOGY** **Hall TURNER**  
**Chairs: Peter Dovč, Romana Marinšek Logar**

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- 15:30 INV33 Claudia Ruth  
*Next generation Pichia pastoris expression system*
- 15:55 INV34 Uroš Urleb  
*New antibacterials: from discovery to microbiology*
- 16:20 O44 Dany Morisset, K. Gruden, J. Žel  
*How can we improve the detection strategy for GMOS? Implementation of the matrix approach*
- 16:35 O45 K. Natter, T. Curk, T. Durbic, C.F. Kurat, T. Eisenberg, V. Wong, E. Cheng, F. Madeo, S.D. Kohlwein, B. Andrews, I. Štagljar, G.W. Brown, C. Nislow, Uroš Petrovič  
*Identification of genetic variants responsible for high lipid content of an industrial yeast strain*
- 16:50 O46 Rok Gaber, T. Lebar, J. Turnšek, N. Tomšič, M. Avbelj, T. Koprivnjak, J. Mori, V. Glavnik, I. Vovk, M. Benčina, V. Hodnik, G. Anderluh, R. Jerala (team iGEM2010)  
*DNA assembly guides product biosynthesis*
- 17:05 O47 Štefan Fujs, D. Goranovič, M. Blažič, P. Mrak, E. Kuščer, J. Horvat, G. Kopitar, G. Kosec, H. Petkovič  
*Multiple regulatory elements involved in biosynthesis of FKBP12-binding compounds of clinical importance*

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**17:30-19:00** **Poster Session III/Sponsors time**

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**P108-P158**

Agricultural microbiology; Cell signalling and membranes; Host-pathogen interactions; Virology;  
Systems biology and functional genomics; Biotechnology

**Halls TEPLY/VOKAČ/FOYER1/FOYER2/PRIOL**

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**19:30-** **GALA DINER**

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