

University of Ljubljana,
Biotechnical Faculty,
Department of Food Science and Technology

# 20 Years of Activity at the Chair of Biotechnology, Microbiology and Food Safety

# THANKS TO ALL WHO WERE (ARE) WITH US



Ljubljana, 27.-28. September 2012



#### 09 POMEN BIOTEHNOLOGIJE IN MIKROBIOLOGIJE ZA PRIHODNOST



Biotechnology and Microbiology for Knowledge and Benefit

Editors:
Peter Raspor and Sonja Smole Možina

Ljubljana, 27th and 28th September 2012

### 10 POMEN BIOTEHNOLOGIJE IN MIKROBIOLOGIJE ZA PRIHODNOST



Biotehnologija in mikrobiologija za znanje in napredek

> Uredila: Peter Raspor in Maja Paŝ

Ljubljana, 27. in 28. september 2012

#### Facts and Chair's projects







Z. Perger; K. Bayer; A. Rotar; S.S. Možina



20 Years of Activity at the Chair of Biotechnology, Microbiology and Food Safety



... and from the Rector of the University of Ljubljana

... and the Dean of the Biotechnical Faculty







## Program konference / Conference programme »Biotehnologija in mikrobiologija za znanje in napredek« »Biotechnology and Microbiology for Knowledge and Benefit« 27. in 28. september 2012





#### Biotehniška fakulteta, Oddelek za živilstvo, Katedra za biotehnologijo, mikrobiologijo in varnost živil Jamnikarjeva 101, Ljubljana, predavalnica Ž1

| Četrtek,   | Welcome speech / Pozdravni nagovor   | 9:00-9:30   |
|--|--|-------------|
| 27. 9. 2012<br>Thursday<br>9:00-19:00<br>Sekcija 1 | prof. dr. Mihael Jožef Toman, dekan Biotehniške fakultete<br>prof. dr. Stanislav Radovan Pejovnik, rektor Univerze v<br>Ljubljani  |             |
| Session 1<br>9:30-10:30                            | Academic Achievements / Predstavitev izobraževanja<br>Chairs / Predsedujoča: Peter Raspor, Sonja Smole Možina  |             |
|  | Overview of Chair's participation in current study programs /<br>Predstavitev izobraževanja na področju biotehnologije,<br>mikrobiologije in varnosti živil na katedri, Maja PAŠ, Head of<br>Laboratory for Biotechnological and Microbiological Education,<br>UL-BF | 9:30-9:45   |
|  | Knowledge and skills for students in biotechnology area, Karl<br>BAYER, past president of University study board, BOKU,<br>Vienna, Austria   | 9:45-10:00  |
|  | Illustration of tuning and upgrading the food safety education curricula for BSc, Daniela Borda, Anca NICOLAU, Vice Rector, University of Galati, Romania  | 10:00-10:15 |
|  | "SIFC" International MSc Study Programme, Wolfgang KNEIFEL,<br>Head of Food Science and Technology Department, Head of<br>SIFC school, Vienna, Austria   | 10:15-10:30 |
|  | BREAK / ODMOR  | 10:30-11:00 |
| Sekcija 2<br>Session 2                             | Biologicals and bio-methodologies / Predstavitev<br>biotehnološkega in biometodološkega raziskovanja   |             |
| 11:00-12:15  | Chairs / Predsedujoča: Polona Jamnik, Peter Raspor   |             |

|                                       | Presentation of biotechnological bio-methodological research<br>at the Chair / Predstavitev biotehnološkega bio-metodološkega<br>raziskovanja na katedri, <b>Neža ČADEŽ</b> , Head of Laboratory for<br>Yeast Biotechnology, UL-BF  | 11:00-11:15 |
|---------------------------------------|---|-------------|
|                                       | Illustration of chromium and iron in yeast matrices / Preteklo sodelovanje in rezultati: primer kroma in železa v kvasni biomasi, Radmila MILAČIČ, Head of Department of Environmental Sciences, IJS, Ljubljana   | 11:15-11:30 |
|                                       | Bioproduction of lipstatin / Bioprocesna proizvodnja lipstatina,<br>Aleš GASPARIČ, Head of Department of Biochemistry<br>Development, Krka d.d., Novo mesto   | 11:30-11:45 |
|                                       | Illustration of macro molecules separation / Analize in locbe<br>makromolekul, Aleš PODGORNIK, Deputy Head of Laboratory<br>for Bio-Analytics, COBIK, Solkan  | 11:45-12:00 |
|                                       | Illustration of pumpkin oil genuineness studies and olive leaf extracts bioactivity / Ugotavljanje pristnosti bučnega olja in priprave ekstraktov oljčnih listov za študij bioaktivnosti, Bojan BUTINAR, Quality manager of Olive Oil Testing Laboratory, SRC, Izola  | 12:00-12:15 |
|                                       | LUNCH / KOSILO  | 12:15-13:15 |
| Session 3<br>Sekcija 3<br>13:15-14:45 | Food Safety Management / Obvladovanje varnosti živil<br>Chairs / Predsedujoča: Barbara Jeršek, Peter Raspor   |             |
|                                       | Food safety research at the chair / Predstavitev raziskovanja<br>varnosti živil na katedri, <b>Sonja SMOLE MOŽINA</b> , Deputy Head<br>of Chair of Biotechnology, Microbiology and Food Safety, UL-BF   | 13:15-13:30 |
|                                       | Illustration of pathogen detection with alternative methods /<br>Alternativne metode za detekcijo patogenov, Martin WAGNER,<br>Head of the Institute for Milk Hygiene, Milk Technology and<br>Food Science, University of Veterinary Medicine, Vienna,<br>Austria, Head of Christian Doppler Laboratory for Molecular<br>Food Analytics | 13:30-13:45 |
|                                       | Campylobacter epidemiology in the Balkan region / Epidemiologija kampilobaktrov na Balkanu, Selma UZUNOVIĆ, Cant. Public Health Institute, Zenica, Vice Dean of the Faculty of Health Care and Nursing, University "Vitez" Travnik, BIH   | 13:45-14:00 |
|                                       | Campylobacter contamination and risk assessment in poultry chain in Slovenia / Kontaminacija s kampilobaktri in ocene tveganja v perutninski verigi v Sloveniji, Matjaž OCEPEK, Head of the Laboratory for Molecular Bacteriology and Most Dangerous Bacterial Diseases, Veterinary Faculty, Ljubljana                                  | 14:00-14:15 |
|                                       | Contamination of bivalves and presence of marine biotoxins in<br>bivalves / Virusne in mikrobiološke kontaminacije školjk ter<br>prisotnost morskih biotoksinov v školjkah, <b>Andrej KIRBIŠ</b> , Vice<br>Head of the Institute For Food Hygiene And Bromatology,<br>Veterinary Faculty, Ljubljana                                     | 14:15-14:30 |
|                                       | FOODSEG – Advanced food processing and preservation and consumer habits / FOODSEG – Novi načini predelovanja in konzerviranja živil ter navade potrošnikov, Anca NICOLAU, Head of Microbiological Group, University of Galați, Romania  | 14:30-14:45 |

|   | BREAK / ODMOR  | 14:45-15:15 |
|---|--|-------------|
| Session 4<br>Sekcija 4<br>15:15 – 16:00 | Antimicrobials / Protimikrobne snovi Chairs / Predsedujoča: Sonja Smole Možina, Peter Raspor   |             |
|   | Research of antimicrobials at the chair / Raziskave<br>protimikrobnih snovi na katedri, Barbara JERŠEK, Head of<br>Laboratory for Food Microbiology, UL-BF                                 | 15:15-15:30 |
|   | Illustration of biological activity of plant extracts / Biološka aktivnost rastlinskih izvlečkov, Ivana GENERALIĆ, Researcher, University of Split, Croatia                                | 15:30-15:45 |
|   | Plant derived modulators of bacterial efflux / Rastlinski<br>modulatorji izlivnih črpalk bakterij, Franz BUCAR, Deputy Head<br>of Department of Pharmacognosy, University of Graz, Austria | 15:45-16:00 |
| 16:00-17:30                             | Working Groups for Joint Study programs and Research<br>Project Applications /<br>Delovne skupine za pripravo skupnih študijskih<br>programov in projektnih aplikacij                      |             |
|   | Introductory Remarks / Uvodna misel<br>Jure Zupan, UL-BF   |             |
| 17:30-19:00                             | Gathering / Sprejem v avli Oddelka za živilstvo  |             |

| Petek,<br>28. 9. 2012<br>Friday<br>8:15-12:30<br>Sekcija 1<br>Session 1<br>8:15-10:15 | Utrinki iz razvojne poti Katedre / Recalling the journey of the<br>Chair, Peter RASPOR, Predstojnik Katedre za biotehnologijo,<br>mikrobiologijo in varnost živil, UL-BF   | 8:15-8:30 |
|---|--|-----------|
|   | Primeri dobrih praks - Izzivi in uspehi / Selection of Good<br>Practices - Challenges and Successes<br>Predsedujoča / Chairs: Peter Raspor, Maja Paš   |           |
|   | Izzivi in uspehi na področju biotehnologije: Zelene strehe —<br>prihodnost urbanega bivanja / Challenges and successes in the<br>field of green roofs — future of urban life, Saša BAVEC,<br>generalni direktor družbe Knauf Insulation d.o.o., Škofja Loka    | 8:30-8:45 |
|   | Zagotavljanje varnosti živil v živilsko prehransko oskrbovalni<br>verigi / Food safety assurance in the food supply chain, <b>Mojca</b><br><b>JEVŠNIK</b> , bivša predstojnica Oddelka sanitarnega inženirstva,<br>Zdravstvena fakulteta, Univerza v Ljubljani | 8:45-9:00 |
|   | Izzivi in uspehí na področju pivovarstva / Challenges and<br>successes in brewing industry, Matej OSET, član uprave<br>Pivovarna Laško, Laško  | 9:00-9:15 |
|   | Uporaba modernih mikroskopskih tehnik v biotehnologiji in biokemiji / Application of modern microscopic techniques in biotechnology and biochemistry, Tina ZAVAŠNIK BERGANT, raziskovalka, IJS, Ljubljana  | 9:15-9:30 |

|                                       | Izzivi in uspehi na področju enologije / Challenges and successes in the field of oenology, Franc ČuŠ, vodja centralnega laboratorija, KIS, Ljubljana   | 9:30-9:45   |
|---------------------------------------|---|-------------|
|                                       | Izzivi in uspehi na področju prehrane: Oksidativni stres,<br>antioksidanti in kovinski ioni / Challenges and successes in the<br>field of oxidative stress, antioxidants and metal ions, <b>Borut</b><br><b>POUŠAK</b> , predstojnik Katedre za zdravstveno ekologijo,<br>Zdravstvena fakulteta v Ljubljani, Univerza v Ljubljani |             |
|                                       | Izzivi in uspehi na področju biološke varnosti v biotehnologiji /<br>Challenges and successes in the field of biosafety in<br>biotechnology, Martin BATIČ, vodja Oddelka za biotehnologijo,<br>Ministrstvo za kmetijstvo in okolje, Ljubljana   |             |
| 1                                     | ODMOR / BREAK   | 10:15-10:45 |
| Sekcija 2<br>Session 2<br>10:45-11:30 | Razvoj infrastrukture / Infrastructure Development Predsedujoča / Chairs: Peter Raspor, Neža Čadež  |             |
|                                       | Razvojna iniciativa 1990: Center za biotehnologijo Mlinotest /<br>Development initiative 1990: The Biotechnology Centre<br>Mlinotest, Boris KOVAČ, vodja centra, Mlinotest, Ajdovščina  | 10:45-11:00 |
|                                       | Razvojna iniciativa 2010: Integracija trajnostnega gledanja v aktualne izzive družbe / Development initiative 2010: Integration of sustainable approach with regards to current challenges in the society, Janez PODOBNIK, direktor ECPD, Ljubljana   |             |
|                                       | Predstavitev revije Food Technology and Biotechnology /<br>Illustration of Journal of Food Technology and Biotechnology,<br>Vladimir MRŠA, Editor in Chief, Zagreb, Croatia   | 11:15-11:30 |
| Sekcija 3<br>Session 3<br>11:30-12:15 | Podjetniški uspehi / Entrepreneurial Successes  Predsedujoči / Chairs:  Aleš Podgornik, Peter Raspor, Marko Jaklič  |             |
|                                       | BIA d.o.o., Rok ŠTRAVS, direktor  | 11:30-11:45 |
|                                       | Echo d.o.o., Andrej HOLOBAR, Polona BRGLEZ, direktorja  | 11:45-12:00 |
|                                       | Biobanka d.o.o., Miomir KNEŽEVIĆ, direktor  | 12:00-12:15 |
| 12:15-12:30                           | Zaključne misli organizatorja / Closing Remarks<br>Peter Raspor, BF-UL  |             |
|                                       | (Predsedujoči / Chairs: Sonja Smole Možina, Barbara<br>Jeršek, Maja Paš, Polona Jamnik, Neža Čadež, Jure Zupan)   |             |







...presented their message



...to curious participants

One cannot think well, love well, sleep well...





...if one has not dined well. (Virginia Woolf)









Nothing is self-evident: there would be no conference without the assistance of our staff. Thank you all.





rangez, ijasa,rianko, Maja;Fujs, Stefan;Gaber, Rok;Gerbec, Tina;GodičTork ksandra;Habot, Romana;Herženjak Stanko, Timea;Hoefferle, Špela;Holobar, anislava; Istenič, Katja; Ivančič (Semenič), Tina; Ivanova, Saška; Ivović (Urukalo olaja; Jejčič, Bruna; Jelen, Vid; Jenko-Brinovec, Špelca; Jerman, Sergej; Jeršek, P lurič, Tina; Juteršek, Borut; Kapel, Tjaša; Karničar, Katarina; Kastelec, Barbara Vodopiveć), Katja; Kavka, Daša; Keser, Bojana; Kinčič, Anja; Kirinčič, Stanislava necl, Primož;Knežević, Miomir;Kocbek, Vida;Kocmur, Tadeja;K atjana;Kovač, Boris;Kovač, Jasna;Kovač, Vida;Kocmur, Jadeja;Kočak koja;Kovač, Jasna;Kovač, Vida;Kocmur, Jadeja;Kočak koja;Kovač, Jasna;Kovač, Vida;Kocmur, Jadeja;Kočak koja;Kovač, Vida;Kocmur, Jadeja;Kočak koja;Kočak koj Medved, Petra; Miklič With us. Thankkyouhorič, Valerija; Matić, Ana Matej;Osterc, Andrej;Ozimek, Gašper;Paš, Maja;Paternoster, Helena;Peg ja; Petković, Hrvoje; Piskernik, Saša; Piškur, Barbara; Pivk Kupirovič, Urška; k, Aleš ;Podjavoršek, Janja;Polanc, Julijana;Poljšak, Borut;Povhe Jemec, K onja;Racman, Artur;Rakuša, Tomaž;Ramuš, Jana; Recek, Marjeta;Resma Bregar, Andreja; Rupnik, Erik; Sedlar, Alenka; Simčič, Mihael; Skrt, Mihae a; Smrekar, Franci; Stojković, Saša; Stražiščar, Matej; Šantavec, Mojca; Ša a; Šilc, Urban; Špes, Aleš; Šporin, Monika; Štrancar, Aleš; Štrlekar, Matija ;Tomc, Urška: Tomše, Romana:Travnik Tilen: Trček Jania (Trke)



Thanks to the lecturers for their contributions!

Ethnographic treasury of Slovenia beehive "Panjska končnica" and mead.



S.S. Možina (Chair), A. Nicolau, W. Kneifel, K Bayer, M. Paš, P. Raspor (Chair)



P. Jamnik (Chair), A. Gasparič, R. Milačič, N. Čadež, A. Podgornik, B. Butinar, P. Raspor (Chair)



A. Nicolau, B. Jeršek (Chair), S. Uzunović, S.S. Možina (Chair), M. Wagner, A. Kirbiš, M. Ocepek, P. Raspor (Chair)



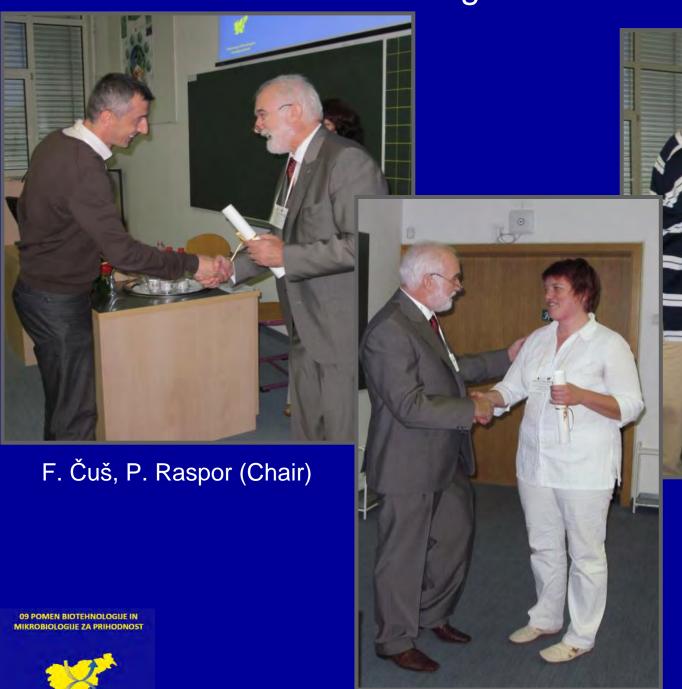
S.S. Možina (Chair), J. Zupan, I. Generalič, F. Bucar, B. Jeršek, P. Raspor (Chair)





P. Raspor (Chair), J. Podobnik

M. Batič, P. Raspor (Chair), M. Paš (Chair)







P. Raspor (Chair), T. Z. Bergant





P. Raspor (Chair), B. Poljšak



B. Kovač, P. Raspor (Chair), N. Čadež (Chair)



V. Mrša, P. Raspor (Chair)





M. Knežević, P. Raspor (Chair), A. Podgornik (Chair)

















Expression of thanks by co-workers at the Chair of Biotechnology, Microbiology and Food Safety







Demonstration of tight bonding:

**DNA** and the Chair







Photo after conference farewell cake party. 28.9.2012 at 14:06

An anniversary is a time to celebrate the joys of today, the memories of yesterday, and the hopes of tomorrow.





Performance of opera singer Zdravko Perger, Aria Danila from Franz Leher, Die lustige Witwe during Opening ceremony on 27th September 2012

# We are looking forward to meeting you at the next conference!

20 Years of Activity at the Chair of Biotechnology, Microbiology and Food Safety



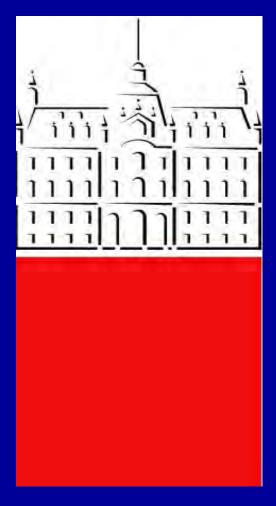


### Thank you in the name of the Chair



First row: Lina Burkan Makivić, asist. dr. Maja Paš, doc. dr. Neža Čadež, dr. Marija Kurinčič, Dragica Marković, prof. dr. Barbara Jeršek, Saša Piskernik, prof. dr. Sonja Smole Možina, prof. dr. Peter Raspor Second row: dr. Jure Zupan, Luka Kranjec, Janez Kosel, Marko Blažič, Mateja Ambrožič, Lidija Baša, Matej Šergan

### Thank you. Hvala lepa!



University of Ljubljana
Biotechnical faculty
Department of Food Science and
Technology,
Chair of Biotechnology, Microbiology and
Food Safety

Jamnikarjeva 101 1001 LJUBLJANA SLOVENIA

Tel.: +386 (0)1 423 11 61 Fax: +386 (0)1 256 57 82 http://www.bf.uni-lj.si/



