



University of Rzeszow

Faculty Biology and Agriculture

Students Scientific Group of Food Technologists "FERMENT"

invites you to participate at the

4th Honey Seminar and

5th International Meeting of Young Food Technologists

to be held in

International Environmental Education Center

University of Rzeszow in Iwonicz,

within 25 – 27 November 2016



Scientific committee

Professor Volkmar Passoth, PhD. /Sweden/

Professor Andrzej Sybirny, PhD. /Ukraine, Poland/

Professor Miroslava Kačániová, PhD., /Slovakia/

Professor Juraj Čuboň, PhD., /Slovakia/

Professor Béla Kovács, PhD., /Hungary/

Associate Professor Małgorzata Dżugan, PhD. /Poland/

Associate Professor Agata Znamirowska, PhD. /Poland/

Associate Professor Czesław Puchalski, PhD. /Poland/

Associate Professor Adriana Kolesárová, PhD. /Slovakia/

Associate Professor Helena Frančáková, CSc., PhD./Slovakia/

Associate Professor Władimir Sybirnyj, PhD. /Poland/

Péter Sipos, PhD. /Hungary/

István Fekete, PhD. /Hungary/

Konstantinos A. Paschalidis, PhD. /Greece/

Adrian Timar, PhD. /Romania/

Maciej Kluz, PhD. /Poland/

Dorota Grabek – Lejko, PhD. /Poland/

Cornelia Purcarea, PhD. /Romania/

Adriana Chis, PhD. /Romania/

Simona Vicas, PhD. /Romania/

Anamaria Morna, PhD. /Romania/

Anna Pasternakiewicz, PhD. /Poland/

Grzegorz Zaguła, PhD. /Poland/

Organizing committee:

Maciej Kluz, PhD. – Head

Monika Wesołowska MSc., Iwona Kata, MSc., Rafał Kordiaka MSc, Katarzyna Szajnar MSc., Patrycja Sowa MSc., Małgorzata Pawlos MSc., Paweł Hanus, Krzysztof Kotula, Marcin Obirek, Ewa Łasocha, Karolina Maternia, Magdalena Dłużeń, Kamil Dudzik

Conference programme

25.11.2016

12.00 Departure from Rzeszow

5th International Meeting of Young Food Technologists

13.00 – 15.00 Industrial tour in Dairy – OSM Jasienica Rosielna

17.00 Opening ceremony

17.15 – 18.45 Lectures

18.45 – 19.00 Coffe break

19.00 – 20.00 Lectures

26.11.2016

9.00 – 10.00 Breakfast

4th Honey Seminar

10.00 - 11.30 Lectures

11.30 – 12.00 Coffe break

12.00 – 13.30 Lectures

13.30 – 15.00 Lunch

15.30- 17.00 – Lectures

17.00 – 17.30 Coffe break

5th International Meeting of Young Food Technologists

17.30 – 19.00 – Plenary Lectures

20.00 – Get-together Party/ 8th FERMENT Birthday Party

27.11.2016

5th International Meeting of Young Food Technologists

9.00 - 10.00 Breakfast

10.00 – 11.30 Lectures

11.45- 12.15 Coffe break

12.15 – 13.45 Lectures

14.00 – 15.00 Lunch

15.00 Closing ceremony

16.00 Transfer to Rzeszow

Information

working language: English

- presentation must be prepared in English, power point 2003 - ...
- lecturers can use data-projector
- time for one oral presentation is 15 minutes
- abstracts will be published in **reviewed book of abstracts** (in electronic form, on-line)
- organizers provide: attending all sessions, conference materials, get-together party, lunch, city tour.

Please fill free to use all (one) page space of the format A4 with one-inch margins on all sides. The title must be written in capital letters, bold, centralized, font Arial 12. Name, surname, author's affiliations and email of the corresponding author must be written as indicated in example (the name of a presenting author must be underlined). Text should be single-spaced with font Arial 12. Abstract has do not contain figures or tables. Short acknowledgement and up to 3 references are acceptable.

In case of multiple abstract submission, please provide abstracts on separate pages of the same file.

The deadline for submission is **15.11.2016**

The abstract as surname.doc (MS Office 2003 - ... format) file should be sent to skntzferment@gmail.com

OPTIMIZATION OF THE FERMENTATION CONDITIONS FOR MAXIMIZING RIBOFLAVIN PRODUCTION BY THE RECOMBINANT STRAIN OF THE YEAST *CANDIDA FAMATA*

*Maciej Kluz*¹, *Valentyna Yatsyshyn*², *Dariya Fedorovych*², *Kostyantyn Dmytruk*², *Vladimir Sibirny*¹, *Andriy Sibirny*^{1, 2}

¹*Department of Biotechnology and Microbiology, University of Rzeszow, Zelwerowicza 4, 35-601 Rzeszow, Poland;*

²*Institute of Cell Biology, National Academy of Science of Ukraine, Drahomanov Street 14/16, 79005 Lviv, Ukraine.*

Email address: mkluz@univ.rzeszow.pl

Riboflavin is the essential vitamin for human nutrition and animal feeding being the precursor of two coenzymes: riboflavin-5'-phosphate (flavin mononucleotide, FMN) and flavin adenine dinucleotide (FAD). The flavin coenzymes are involved in a wide range of biochemical processes, particularly in mitochondrial electron transport, photosynthesis, fatty acid oxidation, metabolism of vitamins, B₆, B₉ (folates) and B₁₂. The aim of this work was optimization of fed-batch fermentation conditions for maximal accumulation of riboflavin by *Candida famata* AF-4/2xSEF1/IMH3/RIB1/RIB7 (RF-3) riboflavin overproducer (Dmyruk et al., 2011). The two-level Plackett-Burman design was performed to screen for medium components that significantly influence the riboflavin production...