

ISSUE 25 (OCTOBER-DECEMBER 2010)



A SECOND CHANCE

Q&T leader of the metabonomics work package in a new FP7 European Project: *Low cost technologies and traditional ingredients for the production of affordable, nutritionally correct foods improving health in population groups at risk of poverty (CHANCE)*.

The project will i) define an innovative strategy based on a socio-economic study of the composition of the most significant EU populations at-risk-of-poverty and ii) verify the relative existing nutritional deficiency via a holistic approach ensured by metabonomics investigations correlating the non-healthy diet to real metabolism alterations. <http://chancefood.org/>

Peer reviewed publications:

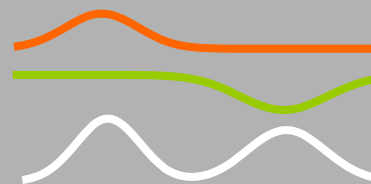
K Laursen, SS Frederiksen, C Leuenhagen, R Bro. Chemometric quality control of chromatographic purity. *Journal of Chromatography A*. 1217: 6503–6510, 2010.

P Faubert, P Tiiva, Å Rinnan, S Rätty, JK Holopainen, T Holopainen, R Rinnan. Effect of vegetation removal and water table drawdown on the non-methane biogenic volatile organic compound emissions in boreal peatland microcosms. *Atmospheric Environment*. Elsevier. 44: 4432-4439, 2010.

MS Mikkelsen, BM Jespersen, BL Møller, HN Lærke, FH Larsen, SB Engelsen. Comparative spectroscopic and rheological studies on crude and purified soluble barley and oat β -glucan preparations. *Food Research International*. 43: 2417–2424, 2010.

U Rehn, MA Petersen, KH Saedén, Y Ardö. Ripening of extra-hard cheese made with mesophilic DL-starter. *International Dairy Journal*. 20: 844-851, 2010.

SF Hansen, E Bettler, Å Rinnan, SB Engelsen, C Breton. Exploring genomes for glycosyltransferases. *Molecular Biosystems*. 6: 1773–1781, 2010.



Peer reviewed:

CL Hansen, AK Thybo, HC Bertram, N Viereck, F Van den Berg, SB Engelsen.

Determination of Dry Matter Content in Potato Tubers by Low-Field Nuclear Magnetic Resonance (LF-NMR). *Journal of Agricultural and Food Chemistry*. 58: 10300–10304, 2010.

CL Hansen, F Van den Berg, MA Rasmussen, SB Engelsen, S Holroyd. Detecting variation in ultrafiltrated milk permeates — Infrared spectroscopy signatures and external factor orthogonalization. *Chemometrics and Intelligent Laboratory Systems*. 104: 243–248, 2010.

FH Larsen. Simulation of Molecular Motion of Quadrupolar Nuclei in Solid-State NMR Spectra. *Annual reports on NMR Spectroscopy*. 71: 103-137, 2010.

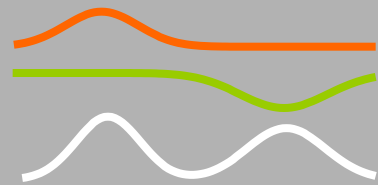
JC Jackson, KG Duodu, M Holse, MD Lima de Faria, D Jordaan, W Chingwaru, Å Hansen, A Cencic, M Kandawa-Schultz, SM Mpotokwane, P Chimwamurombe, HL de Kock, A Minnaar. The Morama Bean (*Tylosema esculentum*): A Potential Crop for Southern Africa. *Advances in Food and Nutrition Research*. 61(5), 187-246, 2010.

Other publications:

F Savorani, SB Engelsen, L Nørgaard, R Bro. CTRL-ALT-SHIFT. *Dansk Kemi*. 91 (10): 40-41, 2010.

L Nørgaard, SB Engelsen, R Bro. Når diskrimination er godt. *Dansk Kemi*. 91 (11): 32-33, 2010.

L Nørgaard, SB Engelsen, R Bro. Klassifikation af spektrale data med Extended Canonical Variates Analysis. *Dansk Kemi*. 91 (12): 32-33, 2010



Staff:

- Anders Honoré, Industrial PhD student with Danisco (THS) until 1/10-2013
- Sanni Matero, Post Doc from PHARMA (RB) until 30/12-12

Guest Researchers:

- Ruben Mestanza (RB) until 30/11-10
- Erola Pairo (RB) until 12/12-10
- Eizo Taira (RB) until 15/12-10
- Carolina Arrese (RB) until 20/12-10
- Christina Piras (FS + SBE) until 22/12-10
- Alessia Trimigno (FS + SBE) until Dec. 2010
- Francesca Fabi (FS) until 31/12-10
- Ausra Savickaite (ÅSH) 1/8-10 to 1/2-11
- Marjam Khoshkam (FvdB) until March 2011

PhD defences:

- Christian Bøge Lyndgaard (supervisors: FvdB and SBE), "*Optimization of Dairy Processes*", December 9th
- Magareth Owusu (supervisor: MAP), "*Influence of raw material and processing on aroma in chocolate*", December 16th

MSc defences:

- Naja Strandby Wechter, specialestuderende (supervisor: ÅSH) October 4th

Courses:

- ODIN - NIR course 28-10-10 (FvdB, SBE) – 20 participants
- Basic food science course (BMJ, MAP, SBE) – 80 students
- PhD course about Aroma (MAP) –
- Exploratory data analysis (ÅR, THS) – 42 students
- Quantitative Bio-spectroscopy (NAV, FHL, SBE) – 20 students and 15 PhD students
- Advanced Chemometrics (RB, FvdB) – 33 students
- Food Quality and Processing Technologies (MAP, Microbiology) –