

ISSUE 32 (JULY-SEPTEMBER 2012)

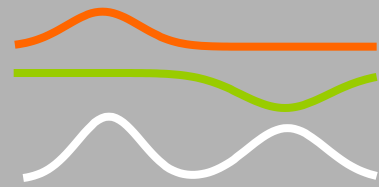
Q&T ENGAGED IN BIOPRO

BIOPRO is a close cooperation between technical universities (KU and DTU) and world-leading biotech manufacturers: Novo Nordisk A/S, Novozymes, DONG Energy and CP Kelco. The intent is to reinforce the strong position of Denmark and Region Zealand in the biotech industry and create a world-class cluster in biotech manufacturing. The pictures are from the grand opening ceremony at the new NOVO Nordisk factory in Kalundborg.

BIOPRO contains a number of collaborative subprojects which from Q&T will be coordinated by Thomas Skov. Other Q&T project staff members are Frans van den Berg, Åsmund Rinnan, Flemming H. Larsen and Søren B. Engelsen

<http://www.models.life.ku.dk/biopro>





Peer reviewed publications:

Poutiainen S, Matero S, Hämäläinen T, Leskinen J, Ketolainen J, Järvinen K.

Predicting granule size distribution of fluidized bed spray granulation process by regime based PLS modeling of acoustic emission data. *Powder Technology*. 228, 149-157, 2012.

Å Rinnan, L Munck. Significance of the structure of data in partial least squares regression predictions involving both natural and human experimental design. *Journal of Chemometrics*. 26, 487–495, 2012.

J Holm, AJ Lawaetz, SI Hansen. Ligand binding induces a sharp decrease in hydrophobicity of folate binding protein assessed by 1-anilinonaphthalene-8-sulphonate which suppresses self-association of the hydrophobic apo-protein. *Biochemical and Biophysical Research Communications*. 425, 19–24, 2012.

T Næs, E Monteleone, A Segtnan, M Hersleth. A comparison of two new take-away strategies and their relation to rating and ranking of extrinsic properties of dry cured ham. *Food Quality and Preference*. 27, 63–71, 2012.

MS Mikkelsen, BM Jespersen, FH Larsen, A Blennow, SB Engelsen. Molecular structure of large-scale extracted b-glucan from barley and oat: Identification of a significantly changed block structure in a high b-glucan barley mutant. *Food Chemistry*. 136, 130–138, 2013.

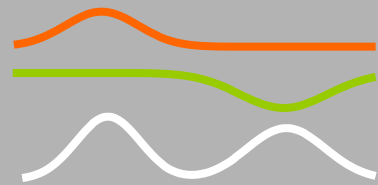
Other publications:

K Andersen, G Mortensen, M Bakman, J Sørensen, TH Skov, R Bro. Mælk og sæsonvariation. *Mælketidende*. 15-16, 8-9 2012.

R Bro, SB Engelsen, L Nørgaard. Tusker3 kan håndtere alle typer af multivejsdata. Det Kemometriske Rum. *Dansk Kemi*. 93 (8), 30-31, 2012.

R Bro, SB Engelsen, L Nørgaard. Anvendelse af Tucker-modellering i miljøovervågning. 93 (9), 56-57, 2012.

MA Petersen, C Varming. Invitation til æblemost temadag. *Frugt & Grønt*. 1/10-2012.



Media:

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Staff:

- PhD student Shujuan Zhang (until 15/09 – 15) (MA Petersen)
- PhD student Thea Høgh (until 30/09 – 15) (SB Engelsen & DuPont)

Guest Researchers:

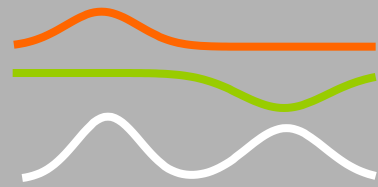
- Jasper Engel (host R Bro, 8/9-30/11 - 2012)
- Idoia Martí Aluja (host Rasmus, 8/9-23/12 - 2012)
- Jone Omar (host J Amigo, 06/09-18/10 - 2012)
- Sonia Gonzalez Concepción (host J Amigo, 22/9-20/12 - 2012)
- Marina Nikolic (host F Savorani, 26/8-9/9 – 2012)

PhD defences:

- Jonas Thygesen (supervisor F van den Berg): Dynamic Models and Chemometric Tools for Process Monitoring. July 10th 2012

BSc & MSc defences:

- MSc defence: Raju Podduturi (supervisor MA Petersen): Profiling of volatile organic compounds in gouda 40+ cheeses. September 28th 2012



Courses:

- Basic Food Science (BM Jespersen, MA Petersen, SB Engelsen, 104 students, block 1)
- Exploratory Data Analysis (Å Rinnan, T Skov, 55 students, block 1)
- Food and Society (ÅS Hansen, G Lerche, 50 students, September - December)
- Fundamentals of beer brewing and winemaking (FH Larsen, SB Engelsen, 20 students, block 1)
- Design of Experiments and Optimization (F van den Berg, 18 Students, block 1)
- Beverage technology (BM Jespersen, 11 students, block 1)
- PhD: Multi-way analysis (R Bro, 15 students, September)
- PhD: Aroma Components in Food (MA Petersen, 13 students, block 1)
- PhD: Introduction to MATLAB (J Amigo, 10 students, September)
- ODIN: Design of Experiments (R Bro, 14 participants, August)
- ODIN: Image Analysis (F van den Berg, 5 participants, September)
- CHANCE: Chromatographic data analysis. Part 2. Fingerprinting and pattern recognition (J Amigo, 15 students, September)

New granted projects:

- BIOPRO: see front page