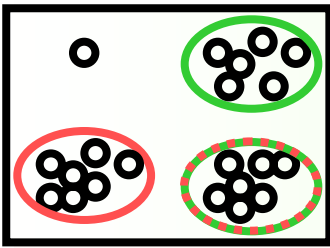


Åse Hansen is to coordinate a 3-year EU-sponsored project "Development of Innovative and Healthful Marama Bean (*Tylosema esculentum*) Products Targeting Niche Markets" with 7 partners from South Africa, Namibia, Botswana, Portugal, Slovenia and Denmark (2.3 M. DKK for Q&T)

Publications with peer review:

- P.P. Mortensen and R. Bro. Real-time monitoring and chemical profiling of a cultivation process. *Chemometrics and Intelligent Laboratory Systems*, **84**:106-113, 2006.
- L. Munck. Conceptual validation of self-organisation studied by spectroscopy in an endosperm gene model as a data-driven logistic strategy in chemometrics. *Chemometrics and Intelligent Laboratory Systems*, **84**:26-32, 2006.
- G. Lorho, F. Westad and R. Bro. Generalized correlation loadings. Extending correlation loadings to congruence and to multi-way models. *Chemometrics and Intelligent Laboratory Systems*, **84**:119-125, 2006
- E. Tønning, L. Nørgaard, S.B. Engelsen, L. Pedersen and K.H. Esbensen. Protein heterogeneity in wheat lots using single-seed NIT - A Theory of Sampling (TOS) breakdown of all sampling and analytical errors. *Chemometrics and Intelligent Laboratory Systems*, **84**:142-152, 2006.
- H. Winding, N. Viereck, L. Nørgaard, J. Larsen and S.B. Engelsen. Quantification of the degree of blockiness in pectins using ¹H NMR spectroscopy and chemometrics. *Food Hydrocolloids*, **21**:256-266, 2007.
- C.B. Zachariassen, J. Larsen, F. van den Berg, R. Bro, A. de Juan and R. Tauler. Multi-way analysis for investigation of industrial pectin using an analytical liquid dilution system. *Chemometrics and Intelligent Laboratory Systems*, **84**:9-20, 2006.
- M. Nielsen, J. Albrethsen, F.H. Larsen and K. Skriver. The *Arabidopsis* ADP-ribosylation factor (ARF) and ARF-like (ARL) system and its regulation by BIG2, a large ARF-GEF. *Plant Science*, **171**:707-717, 2006.
- J.P. Wold, R. Bro, A. Veberg, F. Lundby, A.N. Nilsen and J. Moan. Active photosensitizers in butter detected by fluorescence spectroscopy and multivariate curve resolution. *J. Agric. Food Chem.*, **54**:10197-10204, 2006.
- F. Corzana, J.H. Busto, S.B. Engelsen, J. Jiménez-Barbero, J.L. Asensio, J.M. Peregrina and A. Avenoza. Effect of β -O-Glucosylation on L-Ser and L-Thr Diamides: A bias toward α -helical conformations. *Chem. Eur. J.*, **12**:7864-7871, 2006.
- T. Ohno and R. Bro. Dissolved organic matter characterization using multiway spectral decomposition of fluorescence landscapes. *Soil Sci. Society of America Journal*, **70**:2028-2037, 2006.
- E. Micklander, K. Kjeldahl, M. Egebo, L. Nørgaard. Multi-product calibration models of near infrared spectra of foods. *Journal of Near Infrared Spectroscopy*, **14**(6):395-402, 2006
- H.C. Bertram, Z. Wu, F. vd Berg, H.J. Andersen NMR relaxometry and differential scanning calorimetry during meat cooking. *Meat Science*, **74**:684-689, 2006.
- H. Rudi, A.K. Uhlen, O.M. Harstad, L. Munck. Genetic variability in cereal carbohydrate compositions and potentials for improving nutritional value. *Animal Feed Science and Technology*, **130**:55-65, 2006.



Other Publications:

G. Lerche. Dansk frokostkultur og smørrebrødet. In Festmåltid och vardagsmat - Acta Academiae Regiae Gustavi Adolphi XIII, Mats Hellspong (ed.), Kungl. Gustav Adolfs Akademien för svensk folkkultur, Uppsala, 67-82, 2006.

M. Bassompierre, L. Munck, R. Bro and S.B. Engelsen. Dioxin screening in fish meals by pattern recognition of fatty acid profiles. *Organohalogen Compounds*, **68**:628-630, 2006.

Staff:

Ghita Studsgaard Nielsen has left our group after 11 years.

Jeorgos Trihaas has left our group to take employment at Chr. Hansen.

Merete Møller Nielsen is on leave of absence - Dec 06 – Feb 07

New Projects:

Exploring the asynchronous protein metabolism of wheat -- a 4-year project with DJF sponsored by the Danish Research Councils – S.B. Engelsen 1.0 M. DKK

Multivariate statistics in the evaluation of the effects of plant medicine – a 3-year project with the Dept. of Plant Biology and Faculty of Pharmaceutical Sciences sponsored by Carlsbergfonden – headed by R. Bro 0.5 M. DKK for Q&T

Danish Obesity Research Centre – a 5-year project in which 15 research groups will collaborate to study whether certain elements in the diet play a role in the development of obesity. R. Bro.

Courses:

Uncertainty estimation - 2-day workshop (15-16 Nov): 16 participants – R. Bro (K. Faber)

Multi-way course, University of Modena, (7 Nov): 18 participants – R. Bro

NIR - ODIN course: (24 Oct.): 15 participants – S.B. Engelsen, F.vd Berg, R. Bro

Introduction to PCA, Universitetet i Kuopio, Finland, (26-30 Nov) - for PhD/ postdoc – Å. Rinnan

Introduction to PCA (7 Dec): for BEST partners – Å. Rinnan

Guest Researcher:

José Manuel Amigo Rubio from Universidad Autonoma de Barcelona, Spain
- modelling GC-MS data from wine using PARAFAC2 and working with fermentation processes modelled with PARAFAC. Collaboration with Rasmus Bro.

Visiting Master Student:

Anh Dao Phan Thi from Viet Nam (Dec 06 – May 07) – Aroma compounds in mango juice. Supervisor: Leif Poll

Master Students:

Rikke Ingemann Wilken Christensen (Dec 06 – June 07) – Quality control of spices for spirits production. Supervisor: Mikael Agerlin Petersen

Mette Skau Nielsen (Sept 06 – June 07) – Interactions between vanillin derivatives/other products and β -glucan. Supervisor: Birthe Møller (with Dept. of Plant Biology)