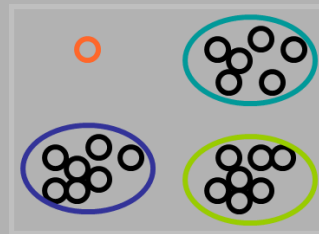


SPECTROSCOPY & CHEMOMETRICS



ISSUE 40 (JULY-SEPTEMBER 2014)

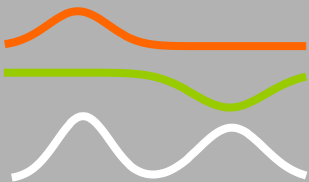
SPECC ASSOCIATE MORTEN RASMUSSEN IS AWARDED THE BRUCE R. KOWALSKI AWARD IN CHEMOMETRICS

Morten who defended his PhD in 2012 received the first ever Kowalski Award in Chemometrics'.

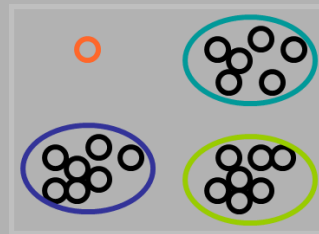
The Kowalski award is administered by the Society for Applied Spectroscopy to honor the legacy of Professor Bruce Kowalski by recognizing outstanding young researchers in the field of chemometrics and by extension, for advanced mathematical and/or statistical methods in chemistry.

The price was presented at The Great Scientific Exchange – SciX2014 conference in Reno-Tahoe, USA , September 29th, 2014.





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Peer reviewed publications July-Sept 2014:

MA Fernnández de la Ossa, JM Amigo, C García-Ruiz. Detection of residues from explosive manipulation by near infrared hyperspectral imaging: A promising forensic tool. *Forensic Science International*. 242, 228–235, 2014.

MA Fernández de la Ossa, C García-Ruiz, JM Amigo. Near infrared spectral imaging for the analysis of dynamite residues on human handprints. *Talanta*. 130, 315–321, 2014.

J Stokholm, S Schjørring, CE Eskildsen, L Pedersen, AL Bischoff, N Følsgaard, CG Carson, BLK Chawes, K Bønnelykke, A Mølgaard, B Jacobsson, KA Krogfelt, H Bisgaard. Antibiotic use during pregnancy alters the commensal vaginal microbiota. *Clinical Microbiology and Infection*. 20 (7), 629–635, 2014.

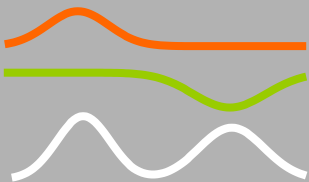
AD Bond, C Cornett, FH Larsen, H Qu, D Rajjadaa, J Rantanen. Structural basis for the transformation pathways of the sodium naproxen anhydrate–hydrate system. *International Union of Crystallography Journal*. 1 (5), 328–337, 2014.

M Crafac, H Keul, CE Eskildsen, MA Petersen, S Saerens, A Blennow, M Skovmand-Larsen, JH Swiegers, GB Petersen, H Heimdal, DS Nielsen. Impact of starter cultures and fermentation techniques on the volatile aroma and sensory profile of chocolate. *Food Research International*. 63, 306–316, 2014.

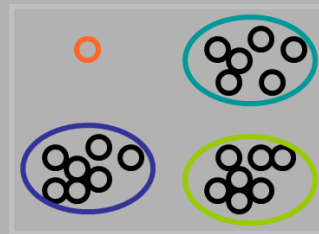
MB Munk, FH Larsen, FWJ van den Berg, JC Knudsen, ML Andersen. Competitive Displacement of Sodium Caseinate by Low-Molecular- Weight Emulsifiers and the Effects on Emulsion Texture and Rheology. *Langmuir*. 30 (29), 8687–8696, 2014.

S Nazemi, M Rahbek, L Parhamifar, SM Moghimi, H Babamoradi, F Mehrdana, DA Klærke, CH Knight. Reciprocity in the Developmental Regulation of Aquaporins 1, 3 and 5 during Pregnancy and Lactation in the Rat. *PLOS ONE*. 9 (9), 1-7, 2014.

MS Mikkelsen, BM Jespersen, A Mehlsen, SB Engelsen, H Frøkiær. Cereal β -glucan immune modulating activity depends on the polymer fine structure. *Food Research International*. 62, 829–836, 2014.



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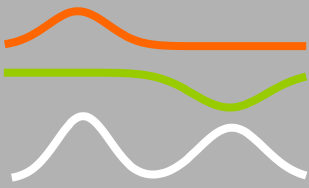


Peer reviewed publications July-Sept 2014:

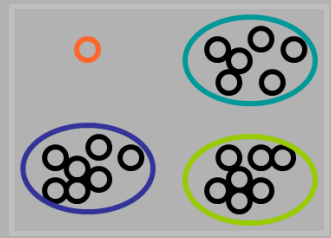
P Ebrahimi, M Nilsson, GA Morris, HM Jensen, SB Engelsen. Cleaning up NMR spectra with reference deconvolution for improving multivariate analysis of complex mixture spectra. *Journal of Chemometrics*. 28 (8), 656–662, 2014.

T Skov, AH Honoré, HM Jensen, T Næs, SB Engelsen. Chemometrics in foodomics: Handling data structures from multiple analytical platforms. *Trends in Analytical Chemistry*. 60, 71–79, 2014.

H Torjusen, AL Brantsæter, M Haugen, J Alexander, LS Bakketeig, G Lieblein, H Stigum, T Næs, J Swartz, G Holmboe-Ottesen, G Roos, HM Meltzer. Reduced risk of pre-eclampsia with organic vegetable consumption: results from the prospective Norwegian Mother and Child Cohort Study. *BMJ Open*. 4 (9), 1-11, 2014.



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Other publications July-Sept 2014:

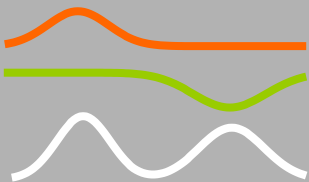
L Munck, SB Engelsen, L Nørgaard. In honor of Rasmus Bro for being awarded with the 10th Herman Wold medal in gold. *Journal of Chemometrics*. 28 (8), 606–607, 2014.

IC Klaas, E Garcia, JM Amigo, R Bro, K König, BH Allesen-Holm, C Enevoldsen. Important steps towards automatic lameless detection. *First dairycare conference 2014*. 22nd-23rd of August, 2014.

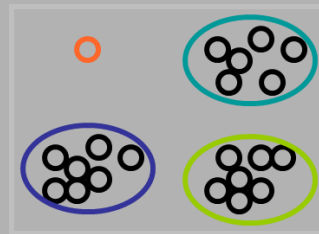
MR Khorasani, J Rantanen, JM Amigo, P Bertelsen. Moving towards continuous manufacturing with NIRS and NIR-CI systems. *NIR: In-depth focus 2014*. 19 (4), 51-55, 2014.

Media:

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Staff:

- Bekzod Khakimov, Postdoc 1/9 2014 – 31/8 2016
- Peter Bæk Skou, PhD student 15/9 2014 – 31/8 2017 (F van den Berg)
- Morten Knudsen, MSc student 7/9 2014 – 1/5 2015 (FH Larsen)
- Christine Brodersen, MSc student 1/7 2014 – 1/7 2015 (Å Rinnan)
- Double degree PhD student Silvia de Luca (R Bro)

Guest Researchers:

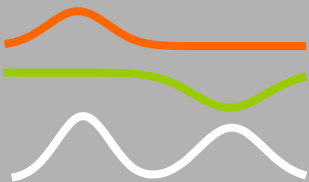
- Leandro de Moura Franca (Host JM Amigo, 1/10 – 29/11 2014)
- Rosalba Cavini (Host JM Amigo, 8/9 – 21/11 2014)
- Bernadette Kokushubila (Host SB Engelsen, 1/9 – 7/9 2014)
- Saioa Elcoroaristizabal Martín (Host R Bro, 1/9 – 30/11 2014)
- Matteo Cassotti (Host R Bro, 1/8 – 31/8 2014)

PhD defences:

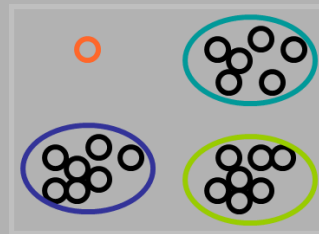
- Anders Honoré, (supervisor T Skov): Exometabolomic profiling of Bacterial Cultures – Searching for Antifungal Metabolites from Lactic Acid Bacteria. August 13th, 2014.

BSc & MSc defences:

- Christine Poulsen & Maria Andersen, MSc (supervisor N Viereck, T Skov and K M Sørensen): Viscosity differences related to hydrocolloids in fruit juice with emphasis on pectin: Development of a spectroscopic method for measuring viscosity variations within and between pineapple and orange juice concentrates. August 26th, 2014.
- Peter Bæk Skou, MSc (supervisor R Bro): Analysis of multivariate structured data from dairy fermentations. September 4th, 2014.



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Courses (July-Sept):

- BIOPRO World Talent Campus 15 – 22/8 2014 (F van den Berg)
- Summer course: Food Entrepreneurship: Designing new business opportunities in the Food sector 11 – 29/8 (N Viereck)

Block 1 (Sept – Nov)

- Fødevarergrundkursus (SB Engelsen, 102 students)
- Exploratory Data Analysis / Chemometrics (Å Rinnan, 44 students)
- Design of Experiments and Optimization (F van den Berg, 17 students)
- Lecture in: Fundamentals of Beer Brewing and Winemaking (FH Larsen, 18 students)
- PhD: Multi-way analysis (R Bro, 6 students)

New granted projects:

- META-Chemistry. Rasmus Bro, FI EUopSTART
- Psoriasis Imaging Project – Part I. Rasmus Bro, LEO-Farma A/S