

ISSUE 45 (OCTOBER-DECEMBER 2015)

SPECC ASSOCIATE MORTEN ARENDT RASMUSSEN INVOLVED IN A STUDY THAT ESTABLISH THE NEONATAL IMMUNE FUNCTION IS SHAPED BY SEASON OF BIRTH

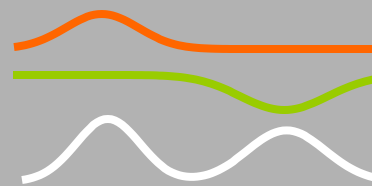
Together with Bispebjerg asthma center Morten has published results in *Journal of Allergy and Clinical Immunology* about birth season-related fluctuations in neonatal immune function. The study have been reported by the media in Politiken and P3.



SPECC PARTICIPATION AT THE ICNIRS CONFERENCE IN FOZ DO IGUASSU, BRAZIL, CELEBRATED AS OUTSTANDING BY THE ORGANIZERS

Ph.d.-student Carina Svendsen, lecture; Postdoc Klavs Sørensen: lecture; Ph.d.-student Tine Ringsted: lecture and poster prize; Associate prof. Åsmund Rinnan: lecture; Ph.d student Peter Bæk Skou: poster and outstanding performance award; Ph.d. student Carl-Emil Eskildsen: poster; Associate prof. José Amigo: poster award and precourse seminar; Prof. Søren Balling Engelsen: Tomas Hirschfeld Award lecture





Peer reviewed publications October-December 2015:

JM Amigo, H Babamoradi, S Elcoroaristizabal. Hyperspectral image analysis. A tutorial. *Analytica Chimica Acta*. 896, 34-51, 2015.

LBB Andersen, C Mølgaard, KT Ejlerskov, E Trolle, KF Michaelsen, R Bro, CB Pipper. Development of Dietary Patterns Spanning Infancy and Toddlerhood: Relation to Body Size, Composition and Metabolic Risk Markers at Three Years. *AIMS Public Health*. 2 (3), 332-357, 2015.

FH Larsen, SB Engelsen. Insight into the Functionality of Microbial Exopolysaccharides by NMR Spectroscopy and Molecular Modeling. *Frontiers in Microbiology*. 6, 1-6, 2015.

L Søndergaard, M Ryssel, C Svendsen, E Høier, U Andersen, M Hammershøj, JR Møller, N Arneborg, L Jespersen. Impact of NaCl reduction in Danish semi-hard Samsøe cheeses on proliferation and autolysis of DL-starter cultures. *International Journal of Food Microbiology*. 213, 59-70, 2015.

B Khakimov, G Gürdenizc, SB Engelsen. Trends in the application of chemometrics to foodomics studies. *Acta Alimentaria*. 44 (1), 4-31, 2015.

B Khakimov, V Kuzina, PØ Erthmann, EO Fukushima, JM Augustin, CE Olsen, J Scholtalbers, H Volpin, SB Andersen, TP Hauser, T Muranaka, S Bak.

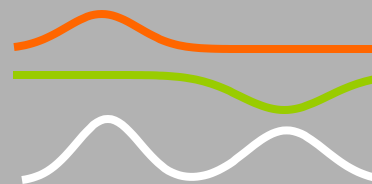
Identification and genome organization of saponin pathway genes from a wild crucifer, and their use for transient production of saponins in *Nicotiana benthamiana*. *The Plant Journal*. 84, 478-490, 2015.

M Nikolica, S Barsberg, FH Larsen, D Löf, K Mortensen, AR Sanadi. Mechanical characteristics of alkyl binder reinforced by surfacemodified colloidal nano silica. *Progress in Organic Coatings*. 90, 147-153, 2015.

PJ Sassene, MD Mosgaard, K Löbmann, H Mu, FH Larsen, T Rades, A Müllertz. Elucidating the Molecular Interactions Occurring during Drug Precipitation of Weak Bases from Lipid-Based Formulations: A Case Study with Cinnarizine and a Long Chain Self-Nanoemulsifying Drug Delivery System. *Molecular Pharmaceutics*. 12, 4067-4076, 2015.



Spectroscopy & Chemometrics



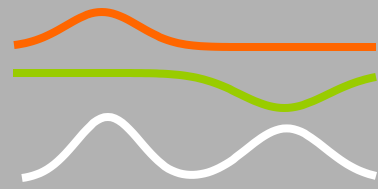
Peer reviewed publications October-December 2015:

KM Sørensen, C Westley, R Goodacre, SB Engelsen. Simultaneous quantification of the boar-taint compounds skatole and androstenone by surface-enhanced Raman scattering (SERS) and multivariate data analysis. *Analytical and Bioanalytical Chemistry*. 407, 7787–7795, 2015.

D Szunyogh, H Szokolai, PW Thulstrup, FH Larsen, B Gyurcsik, NJ Christensen, M Stachura, L Hemmingsen, A Jancsý. Specificity of the Metalloregulator CueR for Monovalent Metal Ions: Possible Functional Role of a Coordinated Thiol? *Angewandte Chemie International Edition*. 54, 15756 –15761, 2015



Spectroscopy & Chemometrics

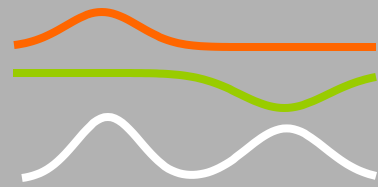


Other publications incl. media October-December 2015:

SB Engelsen, F van den Berg, MH Jakobsen, S Knøchel, K Gernaey, R Akkerman. Mejerier på vandvognen. REWARD - "REuse of WAtER in the food and bioprocessing inDUstry". *MÆLKERITIDENDE*. 15-16, 9-11, 2015.



Spectroscopy & Chemometrics



Staff:

- Giulia Practico, Postdoc, 1/12-2015 – 1/12-2016 (SB Engelsen/L Dragsted)
- Alessia Trimigno, DD PhD student, 2/11-30/11 (SB Engelsen)
- Olayemi Babajide, MSc student, 1/10-2015 - 1/11-2016 (FH Larsen)
- Maja Molloy, BSc trainee stay, 1/12-2015 – 29/2-2016 (T Skov)

Guest Researchers:

- Hajar Khalilian, Guest PhD student, 2/10-2015 – 30/4-2016 (Å Rinnan)
- Yongjiang Dong, Guest student, 13/11-2015 - 13/5-2016 (SB Engelsen)
- Kuang-Da Tian, Guest researcher, 1/12-2015 – 31/5-2016 (R Bro)
- Nicola Cavallini, Guest PhD student, 8-15/12-2015 (R Bro)

PhD defenses:

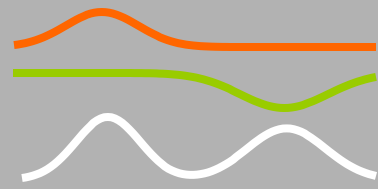
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BSc & MSc defenses:

- Christine Brodersen, MSc (supervisor Å Rinnan): Amorphous lactose in whey permeate powders monitored by NIR and chemometrics. November 20th 2015.



Spectroscopy & Chemometrics



Courses October-December:

Block 2 (Oct-Dec):

MSc: Advanced Chemometrics (18 students. R Bro)

MSc: Quantitative Bio-spectroscopy (14 students. N Viereck, FH Larsen, SB Engelsen)

MSc: Lectures in Brewing 1 (15 students, F van den Berg)

MSc: Lecture in: Sensory & Consumer Science (59 students, T Skov, Å Rinnan)

PhD: Quantitative Food Spectroscopy (6 students. N Viereck, FH Larsen, SB Engelsen)

ODIN: Network Meeting: Experiences and Problems getting Chemometrics and Spectroscopy into the Process (11/11 2015, Rasmus, Thomas)

ODIN: Data Fusion (25/11 2015, 11 students, E Acar)

ODIN: Design of Experiments (9-10/12 2015, 22 students, F van den Berg)

New granted projects:

- ASSEMBLY: Reverse engineering the cell wall for high-performance bio-composites. Flemming Hofmann Larsen (with PLEN), Innovation Fund Denmark