Research Day Agenda

« Journée de la recherche ITV 2016 »

August 26, 2016

Energypolis, EPFL Valais Wallis
Rue de l'Industrie 17, Sion

	Opening and keynote
08:30 – 08:40	Welcome address and opening remarks *Dr Sergio Schmid*
08:40 – 09:15	Keynote: Life Sciences in a Clinch with the Zeitgeist *Prof. Dr em. Beda Stadler,* Member of the CTI board and head of the funding area Life Sciences
	Session 1 : Diagnostic Systems *Chair : Dr Marc Pfeifer*
09:15 – 09:25	Introduction by *Dr Marc Pfeifer*, Head of the research group
09:25 – 09:45	*Diana Burghelea* – Single-step small molecules quantification within microstructures from whole blood for POC-TDM
09:45 – 10:05	*Mathieu Rebeaud* - Cell-based model for the screening of anti-inflammatory agents
10:05 – 11:20	Coffee break & poster session - Cafétéria, Energypolis
	Session 2 : Food and Natural Products *Chair : Dr Michael Beyrer*
11:20 – 11:30	Introduction by *Dr Michael Beyrer*, Head of the research group
11:30 – 11:50	*Fernanda Kerche* – In-line rheology in high moisture extrusion cooking: A contribution to understanding fibration of pea proteins and protein-flavour
11:50 – 12:10	*Michael Beyrer* – Vacuum - Steam - Vacuum processing of powder in a fluidized bed: Approach to a new high temperature short time decontamination
	Session 3 : Biotechnology and Sustainable Chemistry *Chair : Dr Manfred Zinn*
12:10 – 12:20	Introduction by *Dr Manfred Zinn*, Head of the research group
12:20 – 12:40	*Stéphanie Karmann* – PHB biosynthesis from syngas – three fermentation strategies in comparison
12:40 – 13:00	*Rémy Dufresne* – Production and purification of violacein at preparative scale
13:00 – 13:50	Lunch – Cafétéria, Energypolis
	Session 4 : Peptide and Protein Technologies *Chair : Dr Origène Nyanguile*
13:50 – 14:00	Introduction by *Dr Origène Nyanguile*, Head of the research group
14:00 – 14:20	*Peer Andreas* – Labelled CPP's for monitoring of Drug targeting
14:20 – 14:40	*Enrico Condemi* – Aggregation studies by circular dichroism
14:40 – 14:45	Closing remarks – Sergio Schmid
14:45 – 15:45	Visite Energypolis

15:45 – Aperitif and Farewell at Espace Provins // awards for the best oral presentation and the best poster

Poster Presentations

Diagnostic Systems	
A Nespresso-type cell culture system	*Frederic Truffer, Martial Geiser, Anne Walker, Bruno Schnyder*
Point-Of-Care Analytical Platform for Therapeutic Drug Monitoring	*Diana Burghelea, Denis Prim, Jean-Manuel Segura, Marc Pfeifer*
Towards a next generation immunoassays	*Mathieu Mayor, Jacqueline Prim, Denis Prim, Marc Pfeifer*

Food and Natural Products	
Dynamic measuring and modelling of aroma release: Elucidating case-specific, dominant factors of transport kinetics	*Martijn Weterings, Michael Beyrer*
Comparison between method QDA and paired comparison test of Thurstone to evaluate pieces of watchmaking	*Janine Rey-Siggen, Cyrielle Martin, Laurence Nicolay*
Citrus fruit Yuzu – Chemical characterization of different morphological parts	*Aurélie Sprunger, Wilfried Andlauer*
Lonicera berries: A new super fruit to grow in Switzerland	*Noémie Auzanneau, Wilfried Andlauer, Christos Comninellis*
Proteomics application in food safety	*Percevent Ducrest, Jenna Tonacini, Anabelle Tenisch, Bruno Schnyder*

Biotechnology and Sustainable Chemistry	
Biosorption from an engineering point of view	*J. Prim, R. Dufresne, C. Lonfat, S. Crelier*
Recombinant production of the three-finger peptide *Cobrotoxin b* in the yeast *Pichia pastoris*	*L. Scalone, S. Wegmüller, L.Malbois, S. Schmid*
Bioprocess optimization for the production of poly(3-hydroxyalkanoates) from syngas with *Rhodospirillum rubrum*	*M. Romanino, S. Follonier, S. Karmann, M. Zinn*
Nucleotide and nucleotide sugar quantification in cell extracts by capillary electrophoresis	*B. Bucsella, A. Fornage, D. Brühlmann, F. Kalman*
Modelling of sustainable base production by microbial electrolysis cell	*M. Blatter, M. Sugnaux, C. Comninellis, K. Nealson, F. Fischer*

Peptide and Protein Technologies	
Synthetic depsipeptides: structural features vs. biological activity	*Marc Mathieu*
Computer assisted drug design and synthesis of respiratory syncytial virus inhibitors	*Stéphane Mayor, Nadège Gsponer*
Nonequilibrium capillary electrophoresis of equilibrium mixtures	*Antoine Fornage, Franka Kalman*