



Workshop

“Integrated chemical synthesis and product purification”

Final event of an EU-supported project devoted to improve the provision of pure enantiomers
(INTENANT)

12-13 May 2011, Kalkscheune, Johannisstr. 2, Berlin/Germany

Room: ‘Galerie’, 1st floor

- Preliminary Programme -

Thursday, May 12, 2011

13:15 – 13:30	Andreas Seidel-Morgenstern, Max Planck Institute (MPI), Magdeburg <i>Welcome and introduction</i>
13:30 – 14:15	Manfred Reetz, MPI, Muehlheim <i>Laboratory evolution of stereoselective enzymes: A prolific source of catalysts for asymmetric reactions</i>
14:15 – 14:30	Martin Hedberg, AstraZeneca, Södertälje <i>Why did AstraZeneca join the INTENANT project?</i>
14:30 – 14:45	Dieter Schinzer, MOLISA, Magdeburg <i>Noscapine – An important product for the SME MOLISA</i>
14:45 – 15:15	<u><i>Enantioselective synthesis by biocatalytic methods</i></u> Elisabetta Brenna, Politecnico di Milano <i>Overview</i> Fabio Parmeggiani, Politecnico di Milano <i>Application of enoate reductases to the synthesis of chiral drugs: the case of Tesaglitazar and Robalzotan</i>
	Break
15:45 – 16:15	<u><i>Chromatographic separation</i></u> Marco Mazzotti, ETH Zürich <i>Overview</i> Kerstin Larson, AstraZeneca, Södertälje, Jan von Langermann, MPI, Magdeburg <i>Separation of two AstraZeneca compounds and Noscapine</i> Simon Jermann, ETH Zürich <i>Improved Simulated Moving Bed concepts</i>
16:15 – 17:00	<u><i>Crystallisation techniques to separate enantiomers</i></u> Gérard Coquerel, Université de Rouen <i>Overview</i> Heike Lorenz, MPI, Magdeburg <i>Phase diagrams in chiral systems</i> Lorenzo Codan, ETH, Zürich <i>Oiling out in crystallisation</i> Ghazala Sadiq, University of Manchester <i>Identification of conglomerates</i> Silvia Gonella <i>Coupling crystallisation and racemisation</i>
17:00 – 17:30	<u><i>Racemisation to enhance yields</i></u> Sven Panke, ETH Zürich <i>Bioracemisation to enhance yields in enantiomer formation</i> Jan Bäckvall, Stockholm University <i>Racemisation to enhance yields in enantioselective synthesis</i>
17:30 – 19:15	Posters from INTENANT partners and external participants
19:30	Dinner and continuation of poster session



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9:00 – 9:45	Wolfgang Lindner, University of Vienna <i>Potential of chiral ion exchangers for chromatographic resolution</i>
9:45 – 10:30	Bernard Kaptein, DSM, Geleen <i>Attrition enhanced deracemization</i>
	Break
11:00 – 11:45	<u><i>Synthesis and optimization of integrated processes</i></u> Achim Kienle, MPI, Magdeburg <i>Overview</i> Malte Kaspereit, MPI, Magdeburg <i>Computational Methods and Tools for Process Design: Case studies</i> Wolfgang Beckmann, BTS, Leverkusen <i>Case study of Bayer Technology Services</i> Martin Hedberg, AstraZeneca, Södertälje <i>Summary of results achieved within INTENANT</i>
11:45 – 12:30	Podium Discussion “General potential of integrated chemical synthesis and product purification”
12:30 – 13:30	Lunch snack, farewell