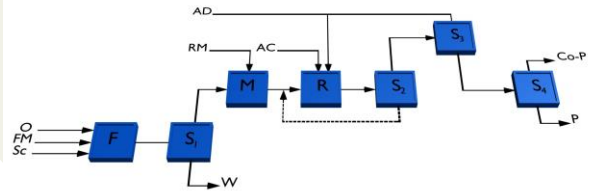
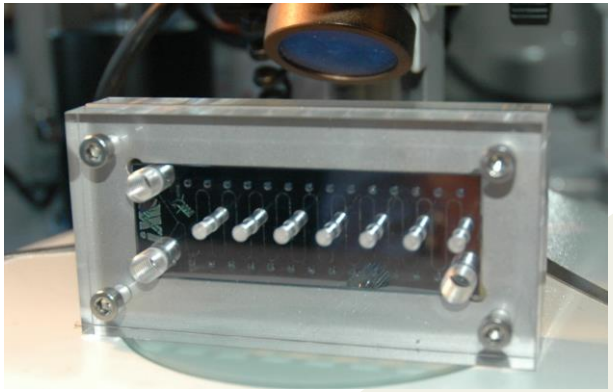
BIOINTENSE is a single stage knowledge based bio economy (KBBE) collaborative project which started on the 1st of August 2012. It is EC-funded through the 7th Framework Cooperation Programme that has the strategic objective of supporting research activities to gain or consolidate leadership in key scientific and technology areas and to encourage international competitiveness whilst promoting research that supports EU policies.

The consortium is led by Professor **John M. Woodley** from the CAPEC-PROCESS research Center at the Department of Chemical and Biochemical Engineering at the Technical University of Denmark (DTU).





Mastering Bioprocess integration and intensification across scales Seventh Framework Programme. Food, Agriculture and Fisheries, and Biotechnology (KBBE). Grant Agreement nr. KBBE-2013-3.3-03 312148.

Partners:

Danmarks Tekniske Universitet (DTU, DK), Technische Universität Graz (GUT, AUT)), Univerza Ljubljani (UL, SLO), Universiteit Gent (UGENT, BE), The University of Manchester (UMAN, GB), Lunds Universitet (ULUND, SWE), DSM Innovative Synthesis BV (DSM, NL), Vlaamse Instelling voor Technologisch Onderzoek N.V. (VITO, BE), iX-Factory (iX-factory, GE), Microfluidic Chip Shop GmbH (ChipShop, GE), Luxcel Biosciences Ltd. (Luxcel, IRL), Lentikat´s a.s. (Lentikats, CZ), C-LECTA GmbH (C-LECTA, GE) and Sigma Aldrich (SIGMA-ALDRICH, CH).

www.biointense.nu

Technical University of Denmark

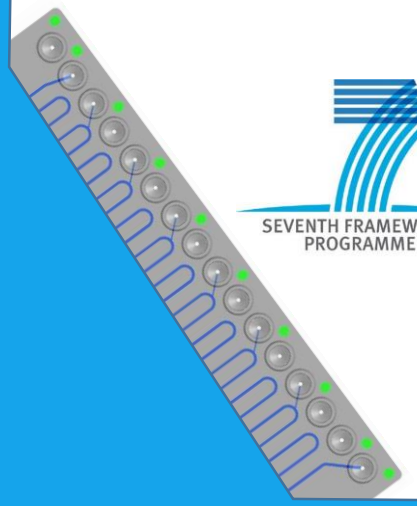
DTU

BIOCATALYSIS IN FLOW - Results of the EC 'BIOINTENSE' project

26th January 2016 (Het Pand, Ghent, Belgium)

BIO INTENSE

SEVENTH FRAMEWORK PROGRAMME



Grant agreement nr: KBBE-2013-3.3-03 312148

Technical University of Denmark

Background

Biocatalysis using enzymes to catalyze synthetic chemistry of industrial interest has grown hugely in recent years, although the most significant developments remain in the pharmaceutical and fine chemical sectors. The scientific and technical developments extend now to the introduction of new process concepts for improved implementation and better production. At the start of 2016 the EC-funded project 'BIOINTENSE: mastering the integration of biocatalysis across scales' will come to an end. The project has been highly successful and we plan a workshop to discuss the findings of the project.

The one-day workshop will be focused on the following themes

- Use of microfluidics for process design and intensification of biocatalysis
- Use of microfluidics for screening of biocatalysts
- Use of microfluidic for kinetic data collection and modelling of biocatalytic reactions

The program will consist of the invited lectures from industry and academia, short presentations with highlights of findings from the BIOINTENSE project, poster session, demonstration of microfluidic systems for biocatalysis and discussion groups.

Program

10:00	Introduction and welcome (Prof Dr John M Woodley, DTU, DK)
10:10	Integration and intensification tools for biocatalytic processes (Dr Roland Wohlgemuth, Sigma Aldrich, CH)
11:00	Continuous flow solutions for sensitive and hazardous reactions (Prof Dr Chris Stevens, Ghent University, BE)
11:50	Turning biocatalysis in flow into bio flow chemistry – learning from the transfer of microreactors to flow chemistry (Prof Dr Volker Hessel, TU Eindhoven, NL)
12:40	Lunch
13:40	BIOINTENSE results - short talks - microfluidic systems, applications, modelling, sensors
14:45	BIOINTENSE posters and demonstrations
15.45	Coffee
16:00	Discussion Groups
17:00	Round up
17:30	Reception

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Deadlines

Both academic and in particular industrial process chemists are invited to attend this public meeting. Please register by **07.12.2015 at** http://goo.gl/forms/6j97pEMQ1n

Abstracts are invited for presentation in poster format - deadline **31.12.2015** to **jw@kt.dtu.dk.**