Enzymatic cascade reactions involving phosphorylated intermediates: immobilization and process optimization
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List of Publications

P. A. Santacoloma, L. Babich, A. F. Hartog, R. Wever, J. Woodley
“Mathematical modeling and optimization of multi-enzymatic synthesis of carbohydrates carried out in three packed-bed reactors in series and continuous flow”
*Manuscript in preparation*

L. J. C. van Hemert, A. J. J. Groenen, L. J. A. Wilders, L. Babich, R. Wever, S. Nabuurs, F. P. J. T. Rutjes
“Expanding the scope of one-pot four-enzyme cascade aldol reactions”
*Manuscript in preparation*

L. Babich, J. Peralta, A. F. Hartog, R. Wever
“Phosphorylation by alkaline phosphatase: immobilization and synthetic potential”
*Manuscript in preparation*

L. Babich, A. F. Hartog, L. J. C. van Hemert, F. P. J. T. Rutjes, R. Wever
“Synthesis of carbohydrates in a continuous flow reactor by immobilized phosphatase and aldolase”

L. Babich, A. F. Hartog, M. A. van der Horst, R. Wever
“Continuous-flow reactor-based enzymatic synthesis of phosphorylated compounds on a large scale”
*Chemistry – A European Journal, 2012, 18*, 6604-6609

L. Babich, L. J. C. van Hemert, A. Bury, A. F. Hartog, P. Falcicchio, J. van der Oost, T. van Herk, R. Wever, F. P. J. T. Rutjes
“Synthesis of non-natural carbohydrates from glycerol and aldehydes in a one-pot four-enzyme cascade reaction”
*Green Chemistry, 2011, 13*, 2895-2900

T. van Herk, A. F. Hartog, L. Babich, H. E. Schoemaker, R. Wever
“Improvement of an acid phosphatase/DHAP-dependent aldolase cascade reaction by using directed evolution”
*ChemBioChem, 2009, 10*, 2230-2235