



Biocatalytic Synthesis

You have discovered a promising substance or developed a highly interesting compound, but they are just too expensive? No problem for acib – we can help you with the development of efficient biocatalytic production routes!

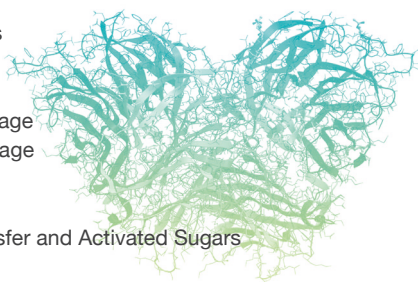
BACKGROUND

Catalysts are the basic tool of all chemists and at acib we could provide several new, powerful tools over the last decade. Our biocatalysts feature high activity, specificity and selectivity while being able to work efficiently and environmentally-friendly at moderate temperatures and pH.

TECHNOLOGY

acib helps you to find economically-feasible routes for your molecule using:

- Reductive Biotransformations
- Oxidative Biotransformations
- Enzymatic Hydrations
- C-C Bond Formation & Cleavage
- C-O Bond Formation & Cleavage
- Hydrolysis/Esterification
- Enzymatic Isomerisation
- Regioselective Glycosyl-Transfer and Activated Sugars
- and many more ...



More information on our biocatalysis-expertise is available here: https://www.acib.at/wp-content/uploads/Folder_biocatal_syn_2

In addition, we can discover novel enzymes, engineer existing ones or optimize the expression, purification and immobilization of enzymes! We can also develop sophisticated enzymatic cascades and/or integrate the biocatalysts into suitable hosts for whole-cell biotransformations.

OFFER

Under protection of a CDA/NDA we provide you with strategies for chemo-enzymatic synthesis of your compound. We can provide just the scouting itself (1-2 month) or the wet-lab proof-of-concept (2-4 months) or the full optimization until your target value has been reached. Any IP developed in such projects would fully belong to the investor/industrial partner.

EXPERTS

Prof. Dr. Bernd Nidetzky
Prof. Dr. Wolfgang Kroutil
Prof. Dr. Robert Kourist
Prof. Dr. Harald Pichler
Dr. Margit Winkler
Dr. Christoph Winkler

AVAILABLE FOR

- Investments
- Joint Research Projects
- Contract Research

DEVELOPMENT STATUS

Technology Readiness Level 1-5

IPR

Can be generated for our industrial partners / investors

KEYWORDS

- Biocatalysis
- Chemo-enzymatic Synthesis
- Biotransformation
- Route Scouting
- Reaction optimization
- Cascade reactions
- Enzyme discovery
- Enzyme engineering
- Enzyme immobilization

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