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with standard hydrolytic bulk enzymes. Explained is why enzymatic resolution and enzyme immobilisation are key components in the chiral toolbox of the process chemist. MeO OEt NH<sub>2</sub>. O HN OMe O HOEt NH<sub>2</sub>. + + Lipase.

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Biocatalysis has become an established technology for the industrial manufacture of fine chemicals and active pharma. The application of enzymes as catalysts for chemical synthesis, has become a valuable tool for the synthetic chemist. Enzymatic transformations carried out by partially purified enzymes or whole-cell catalysts are used for the production of a

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wide variety of  
chemicals, from bulk to  
fine chemicals.

## **Technology**

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racemic resolution of  
amino acids via the  
acylase method is  
regarded as one of the  
first industrial  
processes using  
isolated enzymes  
(Tanabe, Japan, 1969).  
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approximately 100  
different  
biotransformations are  
carried out in industry,  
mostly

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Biocatalysis also often offers the advantage of higher enan-tiomeric purities than are obtainable with chemical catalysis. For example, the



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enzymatic reduction of  
1-(2-chlorophenyl)etha  
n-1-one yields the  
chlorohydrin in 99%  
ee, whereas  
asymmetric  
hydrogenation using  
two different chiral  
catalysts achieves 85%  
and 88% ee.<sup>6,7,8</sup>

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### **Biocatalysis With Standard**

Biocatalysis for important reactions in pharmaceutical manufacturing such as amide bond formation, chiral primary amines, chiral keto reduction and nitrile hydrolysis is a mature field with many options.

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## **Biocatalysis: A Pharma Perspective - Adams - 2019 ...**

With biocatalysis in its embryonic years, cloning, expression and sequencing technology was driving a revolution in the health care sector, and biocatalysis – as an offshoot of this – was a major beneficiary.

## **Biocatalysis - How secret should it be? - Chemicals**

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### Industrial

#### **Knowledge**

Chiral Technologies is the global market leader in enantioselective chromatography and offers the most extensive portfolio of chiral stationary phases (CSPs) manufactured by DAICEL Corporation. Chiral Technologies is a wholly-owned subsidiary of DAICEL Corporation.

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**Global Leader in  
HPLC, Enantiomers,  
CSPs | Chiral  
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Some of the most powerful examples of biocatalytic applications exploit the chiral nature of these catalysts. In fact, the R and S nomenclature commonly used to define the orientation of substituents of a chiral center as popularized by Prelog and others was first

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described in the context of the products formed by the reduction of prochiral ketones by alcohol dehydrogenases (ADHs).

## **Introduction: Biocatalysis in Industry | Chemical Reviews**

This review focuses on key publications in the area of industrial biocatalysis (industrial laboratory, pilot, and

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commercial scale) that appeared in 1999 or 2000. Pharmaceutical industry. The use of biological catalysts in the synthesis of pharmaceutical intermediates, drug metabolites and drug products is now common.

## **Industrial biocatalysis - ScienceDirect**

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has become an  
established technology  
for the industrial  
manufacture of fine  
chemicals and active  
pharma. The  
application of enzymes  
as catalysts for  
chemical synthesis,  
has become a valuable  
tool for the synthetic

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The chiral feature is a critical factor for the efficacy and safety of many therapeutic agents. At present, about 57% of marketed drugs are chiral drugs and about 99% of purified natural products are chiral compounds. There has been a tremendous

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potential of functional microorganisms and biocatalysts derived from them for the bioconversion of synthetic chemicals into drugs with high enantio ...

## **Synthesizing Chiral Drug Intermediates by Biocatalysis ...**

Chiral technology - Expanding the scope of industrial biocatalysis (pdf, 80 KB) ...

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## **BASF Group:**

### **Brochure download**

Enzyme immobilization technology allows you to make innovations in chiral pharma, chiral intermediates, life sciences, cosmetics, food, feed, biofuels, environment and more! For almost 15 years ChiralVision has designed, developed and scaled-up immobilized enzyme processes for all these markets meeting all

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## **ChiralVision**

Biocatalysis in emulsions is a well established technology in research laboratories 35,36,37 and is expected to be equally applicable on larger scales 38,39,40. Moreover, solvent-based processes ...

## **Industrial biocatalysis today**

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**and tomorrow |**  
**Nature** Analysis With

ChiPros.®. Chiral  
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Innovation. BASF has  
been running  
biocatalytic processes  
for more than 50 years.  
With our expertise and  
long track record in  
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fermentative reactions,  
we have developed a  
broad and powerful  
process using our  
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technology.

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biocatalysis in  
chemical syntheses.  
Developed chiral  
chemical processes,  
plus fermentations for  
natural products,  
enzymes, and  
biocatalysis. • Solved  
production problems  
with enzymatic process  
experienced by an  
external supplier.  
Recovered over 3 tons

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of in-process material  
critical to launch  
supply.  
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**Organic Chemistry,  
Biocatalysis,  
Fermentation,  
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used as a synthetic route to produce complex molecules in industrial fields, such as synthesis of high value-added chemicals and drug intermediates [14, 18, 22, 28, 53, 55, 132, 176, 183, 232].



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Further, the

bioconversion field has gained more interest for the synthesis of chiral

## **Synthesizing Chiral Drug Intermediates by Biocatalysis**

Aldolases are emerging as powerful and cost efficient tools for the industrial synthesis of chiral molecules. They catalyze enantioselective carbon-carbon bond

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formations, generating up to two chiral centers under mild reaction conditions. Despite their versatility, narrow substrate ranges and enzyme inactivation under synthesis conditions represented major obstacles for large-scale applications of aldolases.

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