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reactions are

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made organic  
compounds is not at  
all new: they have  
been used for more  
than one hundred  
years, employed  
either as whole cells,  
cell organelles or  
isolated enzymes  
[1,2]. Certainly, the  
object of most of the  
early research was  
totally different from  
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day. Thus the elucidation of biochemical pathways and enzyme mechanisms was the main reason for research some decades ago. It was mainly during the 1980s that the enormous potential of applying natural catalysts to transform non-natural organic

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compounds was

recognized. What

started as a trend in

the late 1970s could

almost be called a

fashion in synthetic

organic chemistry in

the 1990s. Although

the early euphoria

during the 'gold rush'

in this field seems to

have eased

somewhat, there is

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for the future  
development of such  
methods. As a result  
of this extensive,  
recent research, there  
have been an  
estimated 13 000  
papers published on  
the subject. To collate  
these data as a kind  
of 'super-review'  
would clearly be an  
impossible task and,  
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hypothetical book  
would be unpalatable  
for the non-expert  
[3-7].

The use of natural  
catalysts - enzymes -  
for the transformation  
of non-natural is not  
at all new: they have  
been used for more  
man-made organic  
compounds than one  
hundred years,

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employed either as whole cells, cell organelles or isolated enzymes [1].

Certainly, the object of most of the early research was totally different from that of the present day. Thus the elucidation of biochemical pathways and enzyme mechanisms was in the foreground of the



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estimated 5000 papers published on the subject [2]. To collate these data as a kind of 'super-review' would clearly be an impossible task and, furthermore, such a hypothetical book would be unpalatable for the non-expert.

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of enzymes and

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are readily obtained or

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and related enzymes

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Biotransformations<sup>2</sup> is

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Whereas the hydrolases such as proteases, esterases

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and lipases are sufficiently well researched to be applied in every standard laboratory, other types of enzymes are still waiting to be discovered with respect to their applicability in organic-chemistry transformations on a preparative scale.

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This latter point is stressed here, with the focus on the newc omer-enzymes' which show great synthetic potential.

The use of natural catalysts - enzymes - for the transformation of non-natural man-made organic compounds is not at all new: they have

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