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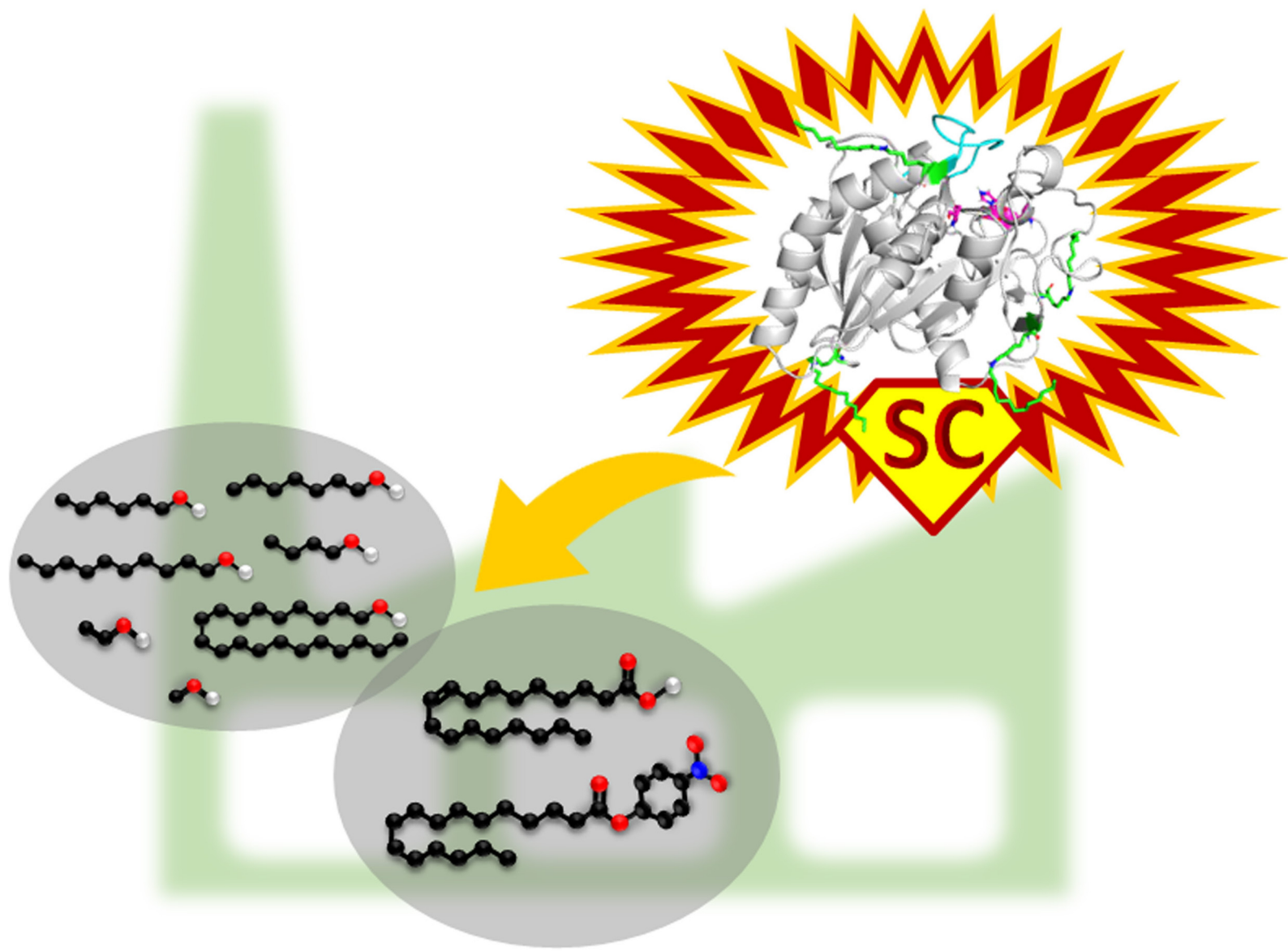
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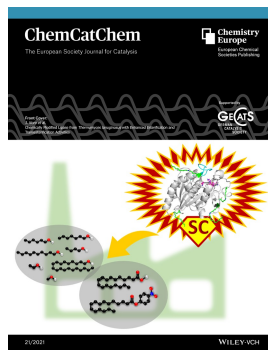
Front Cover:

J. Noro et al.

Chemically Modified Lipase from *Thermomyces lanuginosus* with Enhanced Esterification and Transesterification Activities



The Front Cover shows a super catalyst (SC) lipase obtained through chemical modification for the production of several industrial products like ester-based compounds. In their Full Paper, J. Noro et al. studied the impact of the chemical modification of lipase from *Thermomyces lanuginosus* with dodecyl aldehyde, on its esterification and transesterification activity. The enzyme, modified with four dodecyl chains, showed an outstanding improvement of the catalytic performance for both reactions, comparing to the unmodified lipase. The most notorious results were achieved when longer chain-length alcohols were used for the transesterification of *p*-nitrophenyl palmitate and for the esterification of oleic acid. The novel enzyme modification strategy developed by the authors, resulted in the transformation of a super catalyst, with countless fields of applications, including the production of ester-based products for cosmetic and medical fields. More information can be found in the Full Paper by J. Noro et al.



Dr. J. Noro, Prof. A. Cavaco-Paulo*,
Dr. C. Silva*

1 – 2

**Chemically Modified Lipase from
Thermomyces lanuginosus with
Enhanced Esterification and Trans-
esterification Activities**