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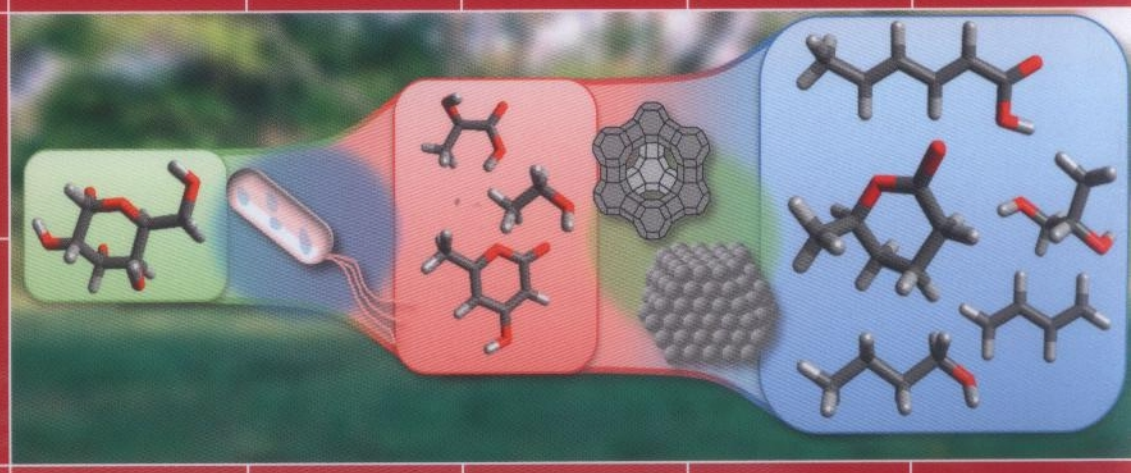

April 2016

Energy biotechnology
Edited by Andrew S Ball and Jamie HD Cate

Environmental biotechnology
Edited by Bernardo González and Regina-Michaela Wittich

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The cover

The integration of chemical catalysis with biological catalysis is a promising strategy for the production of renewable chemicals from biomass. In their review, T. J. Schwartz, B. H. Shanks, and J. A. Dumesic highlight the flexibility of an approach that uses biological catalysis to selectively de-functionalize biomass to yield platform intermediates. Heterogeneous chemical catalysis is then used to upgrade these intermediates to biobased chemicals that are suitable as drop-in replacements for traditional petrochemicals. (See Thomas J Schwartz, Brent H Shanks, James A Dumesic, pages 54–62, this issue)