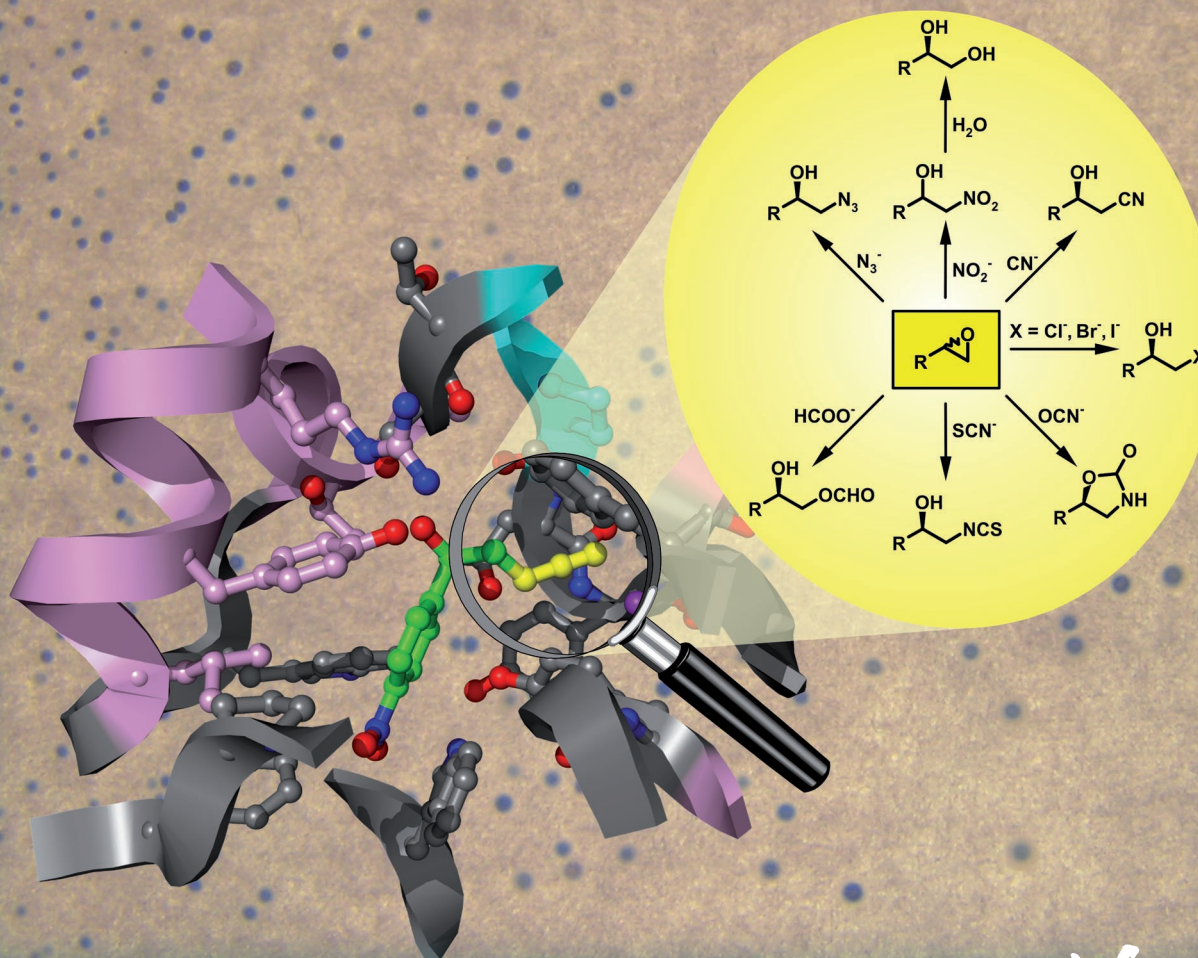


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CHEM BIOCHEM

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**Catalytic Promiscuity of
Halohydrin Dehalogenase**

7/2008

Chemistry & Life Sciences

Highlight: Design of Lectin Mimetics
(M. Mazik)**Plus Original Contributions**
WILEY-VCH

Cover Picture

**Ghannia Hasnaoui-Dijoux, Maja Majerić Elenkov,
Jeffrey H. Lutje Spelberg, Bernhard Hauer, and Dick B. Janssen***

The cover picture shows a close-up of the promiscuous halide binding site of halo-hydrin dehalogenase, an enzyme that catalyzes enantioselective epoxide ring opening with a diversity of anionic nucleophiles. Also shown are conversions that give good yields of building blocks for a range of useful, highly enantioenriched, chiral compounds, including cyanoalcohols, nitroalcohols, and oxazolidinones. These have potential applications in agrochemicals, pharmaceuticals, and polymer chemistry. In the background, recombinant dehalogenase-producing *E. coli* colonies appear violet on an eosin–methylene blue indicator plate when exposed to a chloroalcohol substrate. For more information, see the communication by D. B. Janssen et al. on p. 1048 ff. of this issue.

