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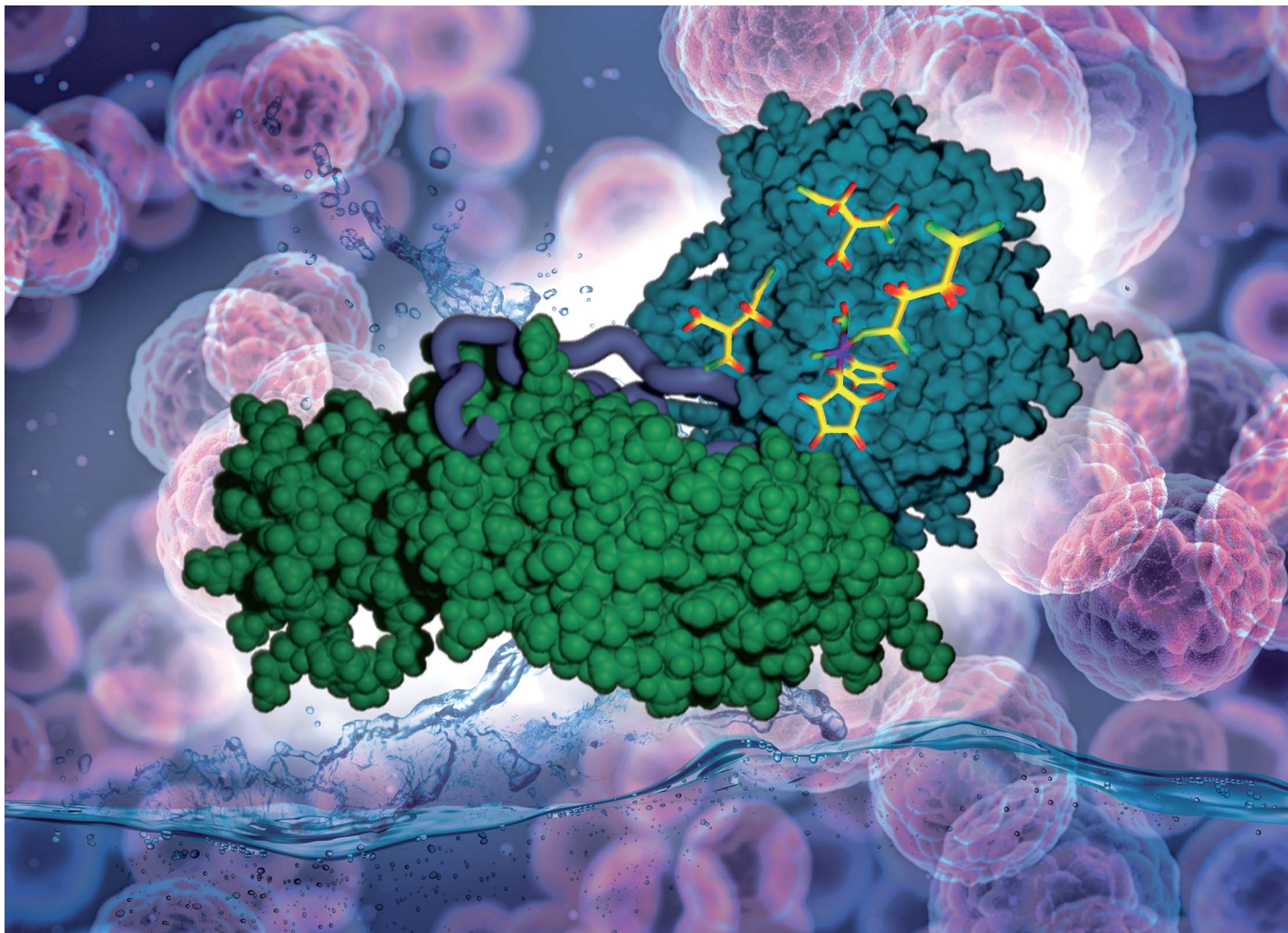
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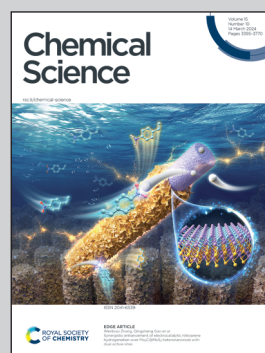
Showcasing research from Prof. Karabenchewa-Christova's laboratory, Department of Chemistry, Michigan Technological University, MI, USA.

Unusual catalytic strategy by non-heme
Fe(II)/2-oxoglutarate-dependent aspartyl hydroxylase AspH

Our study illuminates the origin of the atypical catalytic strategy employed by the human non-heme Fe(II)-2-oxoglutarate-dependent dioxygenase AspH. We emphasize the pivotal role played by a water molecule, stabilized by a second coordination sphere aspartate residue, in catalysis, replacing the conventional iron-coordinated carboxylate ligand.

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As featured in:



See Tatyana G. Karabenchewa-Christova *et al.*, *Chem. Sci.*, 2024, 15, 3466.