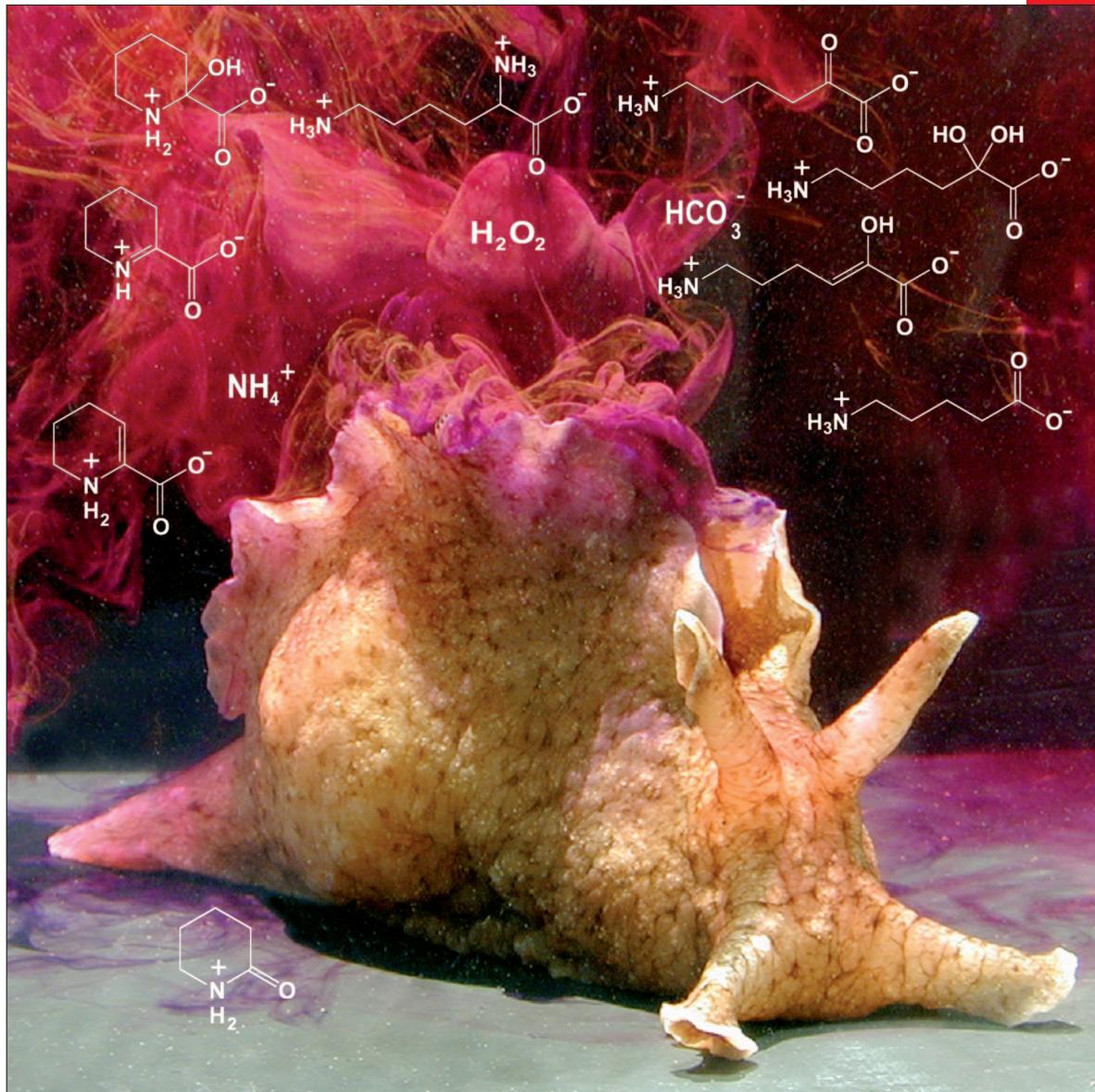


# CHEMISTRY

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### Concept

Prospects of Metal Complexes Peripherally Substituted  
with Sugars in Biomedicinal Applications

M. Gottschaldt and U. S. Schubert

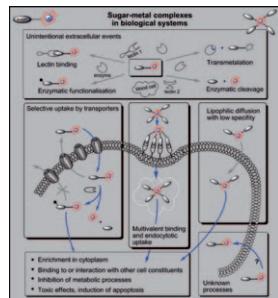
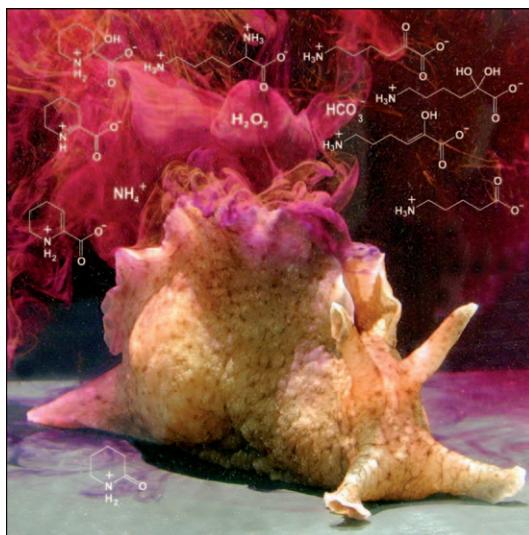
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# Defensive chemicals...

... such as the ink secretion of this marine gastropod mollusk—the sea hares *Aplysia californica*—are released following attacks from predators for protection. One might expect these secretions to be complex mixtures of products, given that they must work against a diversity of predators. In their Full Paper on page 1597 ff., C. D. Derby et al. describe some of the chemical complexity of the ink of sea hares attributable to the enzyme “escapin”. Escapin is an L-amino acid oxidase that oxidatively deaminates its major substrate, L-lysine, to produce an equilibrium mixture of the molecules shown in this image. Photograph from Genny Anderson (Santa Barbara City College).

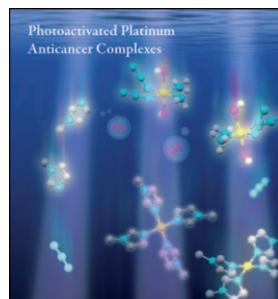
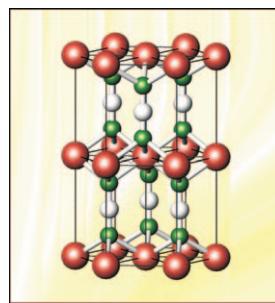


## Biomedicinal Applications

In their Concept article on page 1548 ff., M. Gottschaldt and U. S. Schubert describe the latest developments in functionalization of metal complexes with saccharides in their periphery. This leads to hybrid molecules, the properties of which can be finely tuned.

## Iron Carbodiimides

In their Communication on page 1558 ff., R. Dronskowski et al. describe the synthesis and characterization of two new antiferromagnetic nitrogen-based analogues of iron(II) hydroxide and iron(II) oxide. They show that despite different bridging modes between the iron centers, antiferromagnetic exchange couplings predominate in both solid-state structures.



## Anticancer Agents

In their Full Paper on page 1588 ff., P. J. Sadler et al. report their latest work on photoinduced reactions of *cis,trans,cis*-[Pt<sup>IV</sup>(N<sub>3</sub>)<sub>2</sub>(OH)<sub>2</sub>(NH<sub>3</sub>)<sub>2</sub>] in the presence of 1-methylimidazole. The results suggest that histidyl side chains in proteins could be a target for attack in cells.



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