

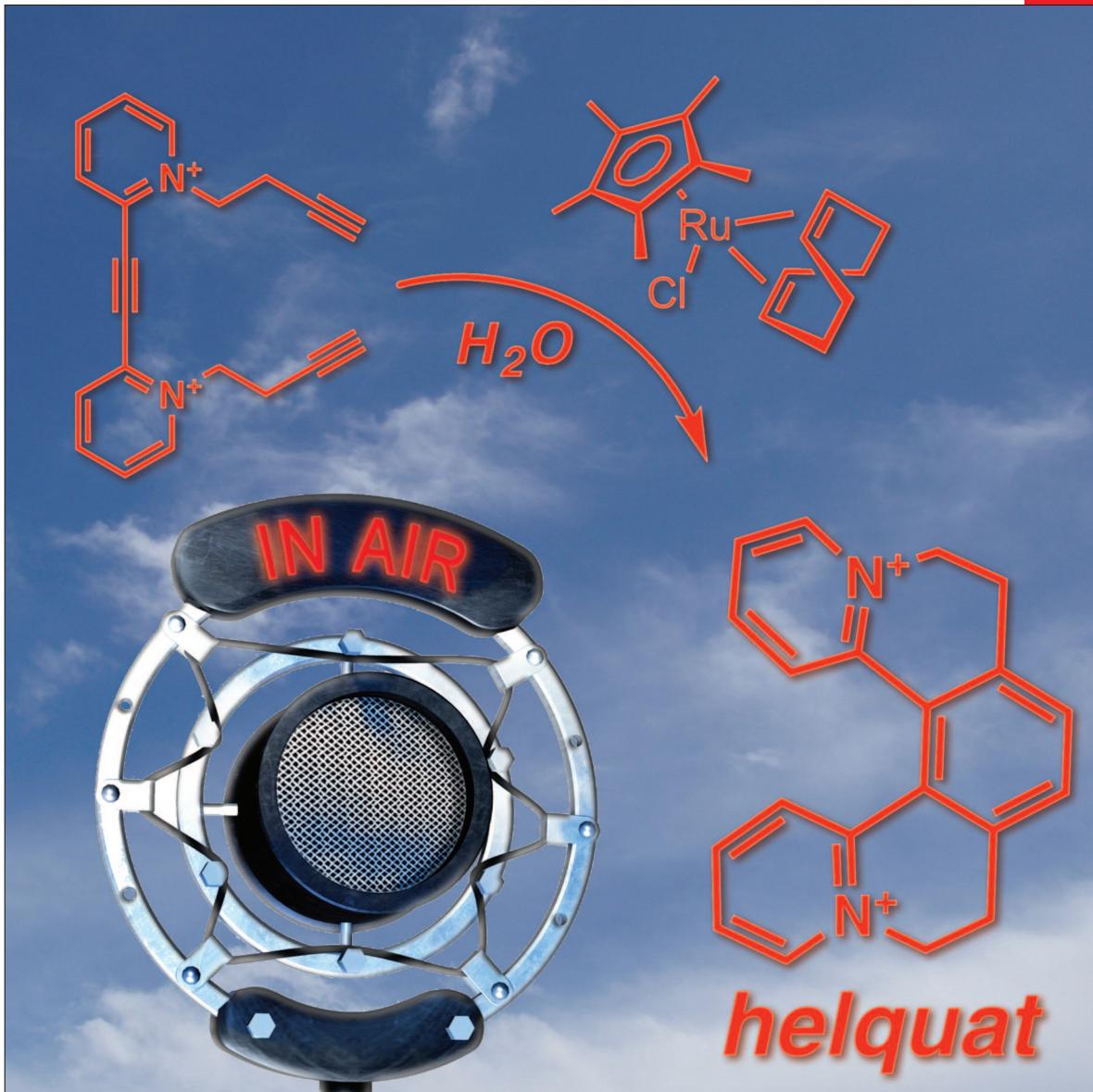
# CHEMISTRY

## A EUROPEAN JOURNAL

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### Concept

Highly Enantioselective Synthesis of Linear  $\beta$ -Amino Alcohols

J. Cossy, D. Gomez Pardo and T.-X. M<sup>etro</sup>

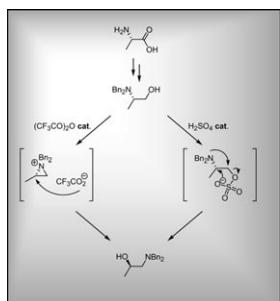
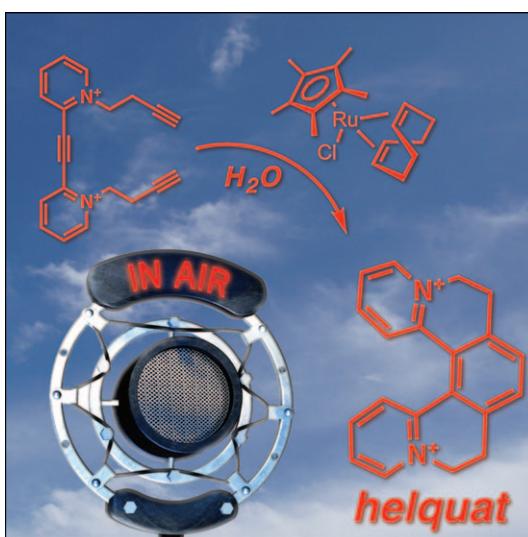
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# A missing link...

... has been discovered. In their Communication on p. 1072 ff., F. Teply et al. describe the three-step synthesis of helquats, a novel class of small helical dicationics representing a missing structural link between helicenes and viologens. Bridging these areas, until now separate, is anticipated to open up unknown scientific territories. The parent helquat is a water-soluble, blue fluorophore and can be prepared by a unique metal-catalyzed [2+2+2] cycloisomerization in water under aerobic conditions.

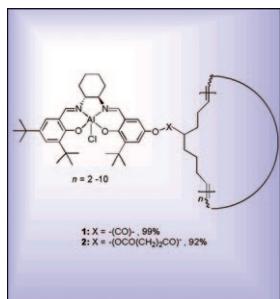


## Enantioselective Rearrangement

In their Concept article on page 1064 ff., J. Cossy, D. Gomez Pardo and T.-X. Metro describe how research over the past few years has led to improvement in the conditions that allow the rearrangement of  $\beta$ -amino alcohols of type **I**: from stoichiometric to catalytic quantities of the major reagent, then from expensive  $(CF_3CO)_2O$  to cheap and widely available  $H_2SO_4$ , which also allowed a reduction in the catalyst loading.

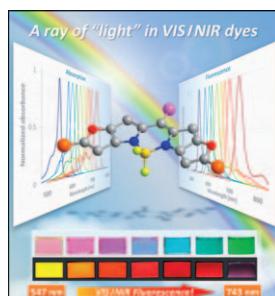
## Fluorescent Dyes

In their Full Paper on page 1096 ff., K. Suzuki et al. describe a new series of long-wavelength fluorescent dyes based on BODIPY, named Keio Fluors (KFLs), with sophisticated optical properties, such as vivid colors in the Vis/NIR region, high extinction coefficients, high quantum yields, high brightness, and emission bands even sharper than quantum dots.



## Asymmetric Catalysis

In their Full Paper on page 1186 ff., M. Weck et al. discuss the use of  $AlCl$ -salen catalysts attached to oligomeric macrocyclic cyclooctene supports by various linkers as model systems to study the effect of linker and support on bi- and monometallic conjugate addition reactions. The flexibility and ability of the cyclooctene support to enhance interaction between neighboring  $AlCl$ -salen units makes the catalysts superior to their unsupported analogues for the bimetallic cyanide addition to  $\alpha,\beta$ -unsaturated imides.



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