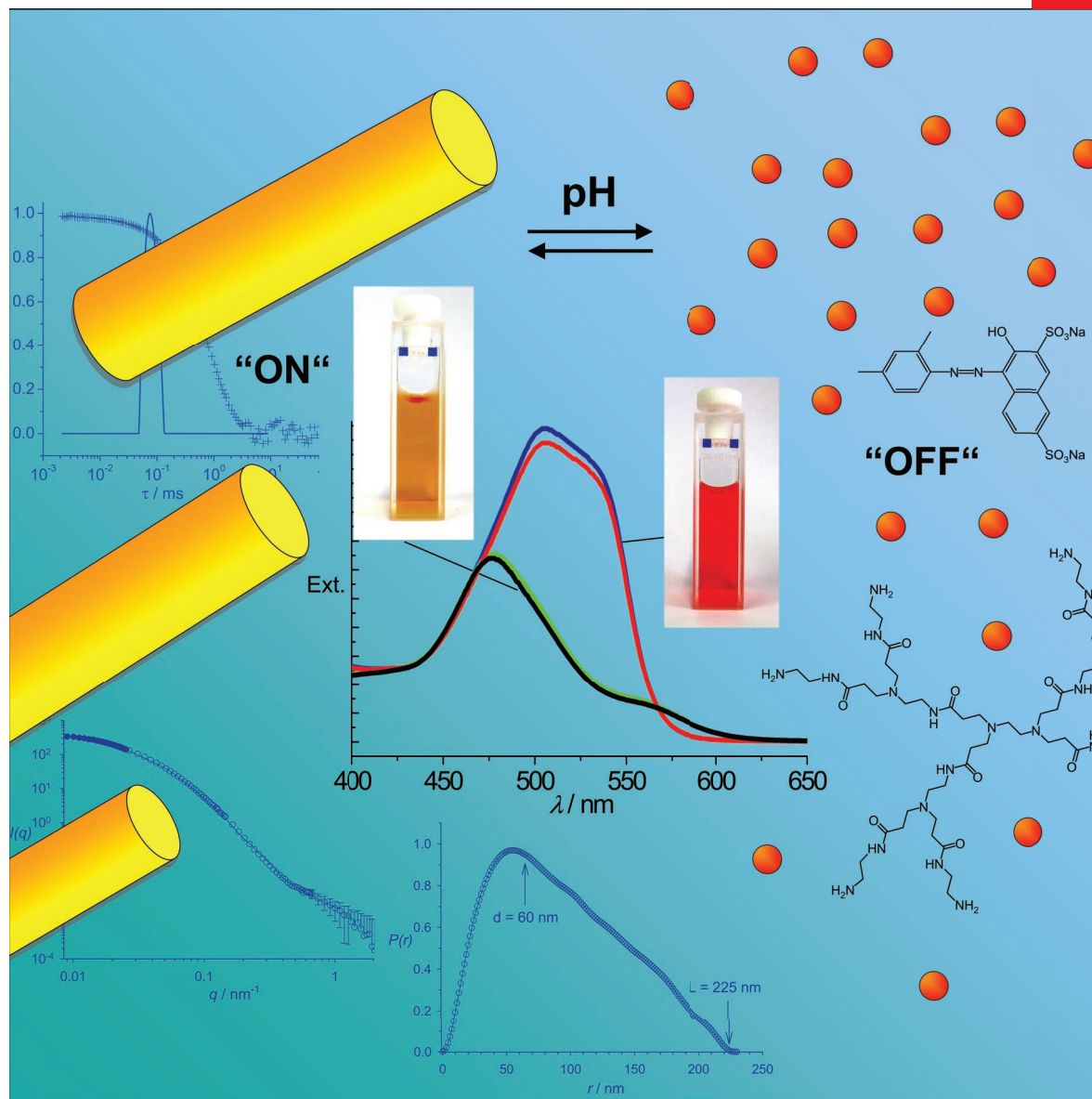


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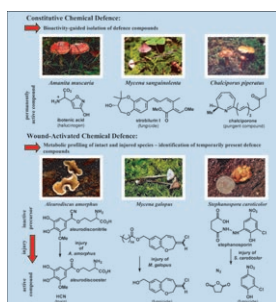
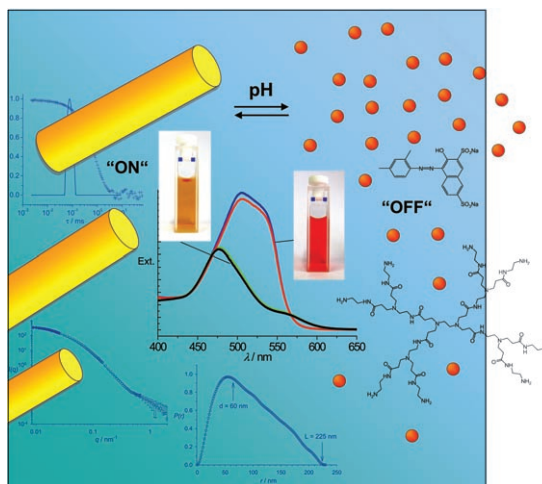
Concept

Chemical Defence Strategies of Higher Fungi
P. Spiteller

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... in aqueous solution allows formation of supramolecular cylindrical structures that can be switched "on" and "off" by pH. One can reversibly switch between 5 nm building blocks and defined 150 nm assemblies. The system presented in the Communication by I. Willerich and F. Gröhn on page 9112 ff., consists of dendrimer macroions that become interconnected through multivalent dye counterions. Thereby a new concept for the formation of supramolecular structures in solution is demonstrated. It may open a field of versatile functional and responsive nanostructures in aqueous solution.

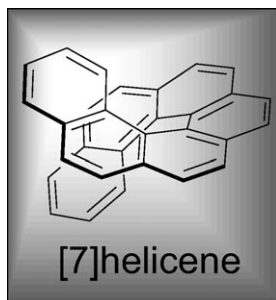
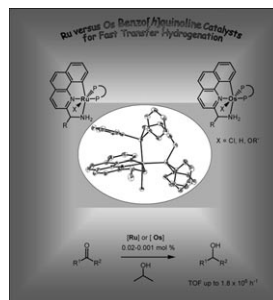


Higher Fungi

In his Concept article on page 9100 ff., P. Spiteller describes how higher fungi have evolved a huge variety of defence strategies based on toxins, fungicides, or bitter tasting compounds that are either present permanently or are produced only upon injury. In this paper different methods for the identification of defence compounds and the elucidation of defence mechanisms are discussed.

Asymmetric Catalysis

Novel benzo[*h*]quinoline ligands (HCN'*N*), containing a CHRNH₂ function in the 2-position, were used to prepare ruthenium and osmium complexes of general formula [MX-(CN'*N*)(P₂)] (M = Ru, Os; X = Cl, H, OR; P = PPh₃ or P₂ = diphosphane), which are excellent catalysts for the transfer hydrogenation of carbonyl compounds with 2-propanol. For more details see the paper by W. Baratta et al. on page 9148 ff.



Olefin Metathesis

In their Full Paper on page 9323 ff., S. K. Collins and A. Grandbois report that to improve asymmetric olefin metathesis reactions, a combination of simple achiral olefins can be used as additives and hexafluorobenzene can be used as a solvent. As a result, hexafluorobenzene has been applied in a novel protocol for the synthesis of enantioenriched [7]helicene.



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