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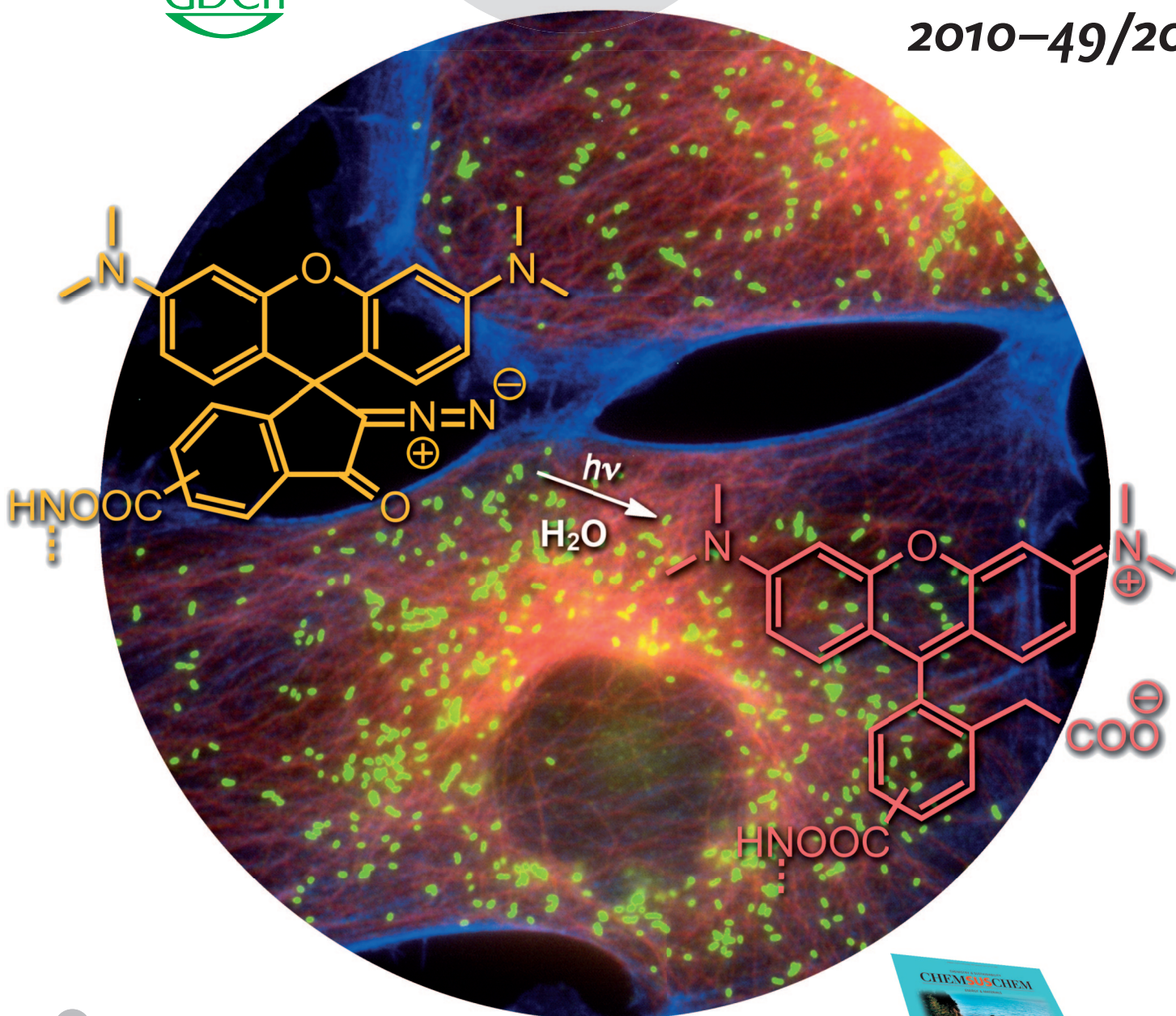
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Nanocatalysis

W. R. Thiel et al.

Cyclopamine

A. Giannis et al.

Borylene Complexes

H. Braunschweig and R. D. Dewhurst

Thiol–Yne-Chemistry

R. Hoogenboom



Cover Picture

Vladimir N. Belov,* Christian A. Wurm,* Vadim P. Boyarskiy, Stefan Jakobs, and Stefan W. Hell*

The photoactivatable fluorescent dye rhodamine NN, whose structure is shown in the cover picture, was combined with two further caged fluorophores with similar spectroscopic properties in a microscopy scheme for imaging cellular structures such as peroxysomes, actin, and microtubuli. The scheme, which uses only one emission and one detection channel, enables the stepwise activation and detection of the dyes. The synthesis and properties of rhodamine NN are described in the Communication by V. N. Belov et al. on page 3520 ff. (Picture: H. Sebesse, MPI für biophysikalische Chemie, Göttingen).

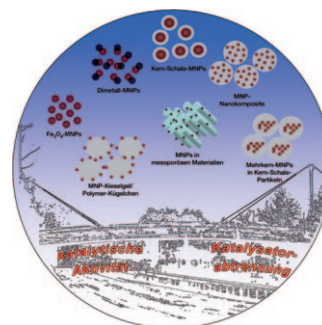


Cyclopamine

In their Minireview on page 3418 ff., A. Giannis and co-workers describe the history of the discovery of cyclopamine, which is the cause of the cyclops deformity, and show its impact on modern biomedical research.

Nanocatalysis

The Review by W. Thiel et al. on page 3428 ff. highlights the latest developments in the synthesis, characterization, and application of quasihomogeneous magnetic nanoparticles and magnetic nanocomposites for various organic transformations.



Cell Mass Spectrometry

The quantitative determination of the uptake of gold and polystyrene particles in cells was accomplished by cell mass spectrometry. As described by W.-P. Peng, C.-H. Chen et al. in the Communication on page 3460 ff., the method can also be used for nonmetals, in contrast to ICP mass spectrometry.