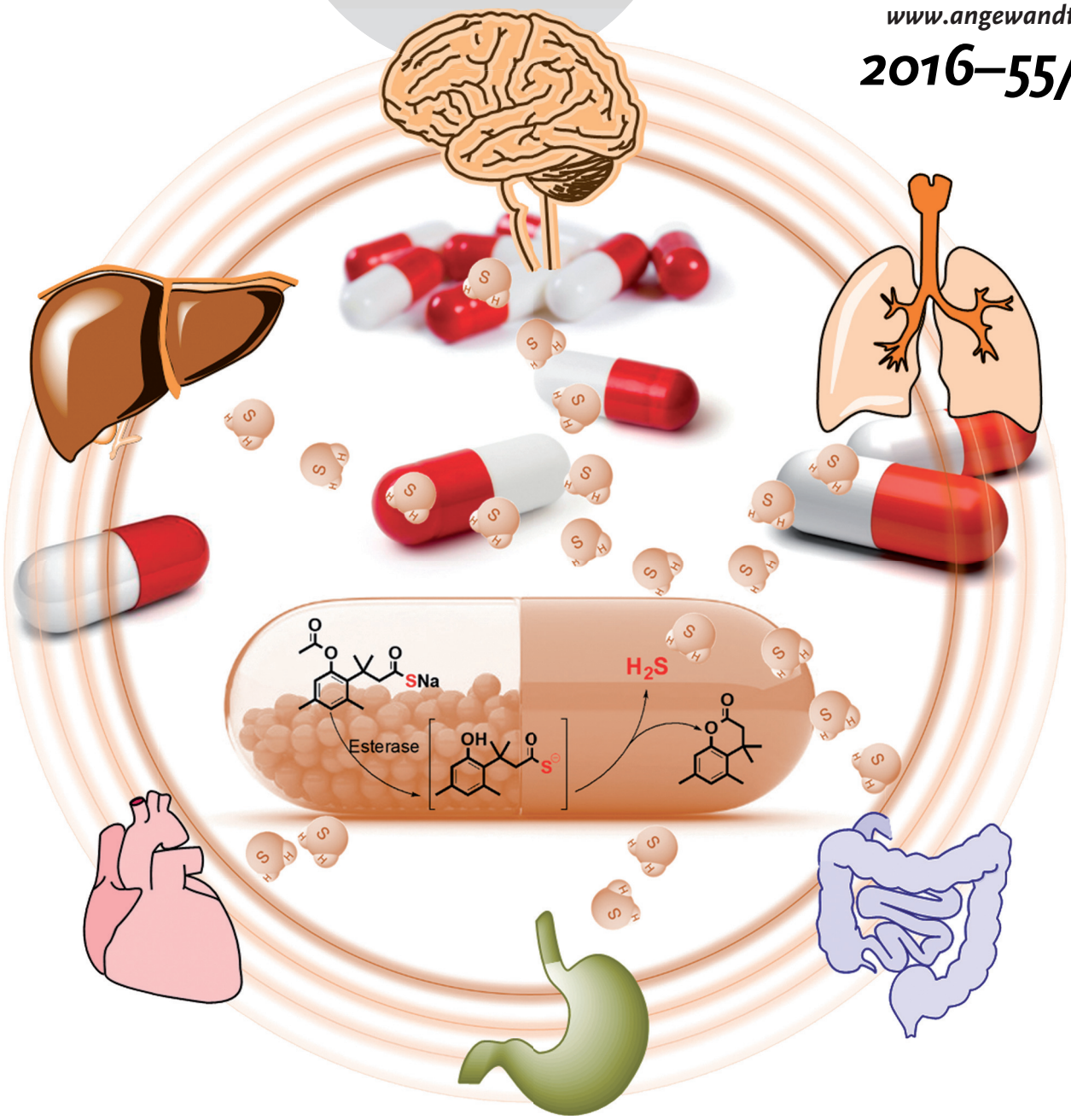
A Journal of the Gesellschaft Deutscher Chemiker

Angewandte International Edition Chemie

GDCh

www.angewandte.org

2016–55/14



A series of thioacids ...

… is described as hydrogen sulfide prodrugs by B. Wang et al. in their Communication on page 4514 ff. The release takes advantage of a "trimethyl lock"-facilitated lactonization controlled by an esterase trigger that unmasks a hydroxy group as the attacking nucleophile. These hydrogen sulfide prodrugs are stable under physiological conditions and release H_2S with tunable release rates by modifying the ester group.

WILEY-VCH