

A Journal of the Gesellschaft Deutscher Chemiker

Angewandte Chemie

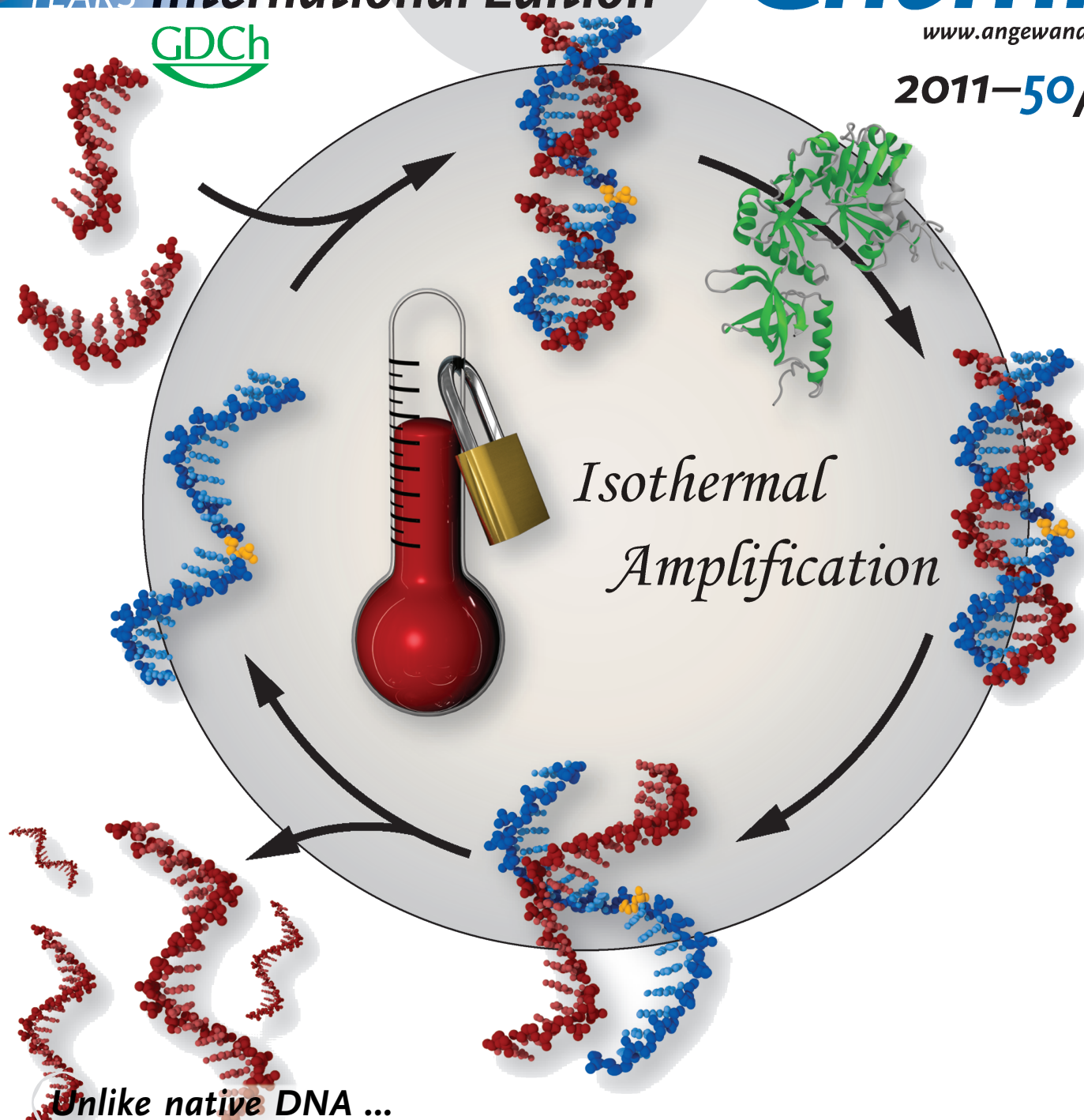
50
YEARS

International Edition

GDCh

www.angewandte.org

2011–50/38



Unlike native DNA ...

... a DNA template containing a destabilizing modification dissociates from the templated ligation product after its formation. As reported by J. M. Gibbs-Davis et al. in their Communication on page 8922 ff., such destabilizing templates turn over in enzymatic ligation reactions, thereby leading to multiple strands per template. Consequently, isothermal DNA amplification and even replication can be achieved using ligase, simple destabilizing modifications, and standard DNA functional groups.