Angelvande Chemiker Angelschaft Deutscher Chemiker Angelschaft Deutscher Chemiker Ch 2012-51/44 RNA vs DNA CATALYSIS G-quadruple> quadruple>

The rational design of small molecules ...

... to selectively target a defined RNA is highly challenging. Such probes ultimately provide the means to interrogate RNA functions within a cellular context with high temporal resolution. In their Communication on page 11073 ff., R. Rodriguez, S. Balasubramanian, and co-workers report the use of in situ click chemistry to identify a small molecule that selectively interacts with the telomeric repeat-containing RNA (TERRA) through recognition of the G-quadruplex structure. The same approach was used to identify a related analogue that targets its DNA counterpart with high efficiency.

