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Fundamental questions
Elemental answers

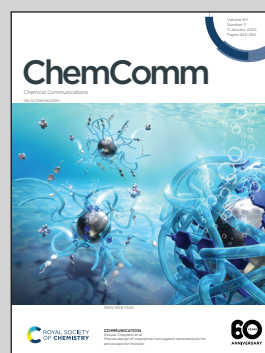


**Showcasing research from Professor Shionoya's laboratory,
Department of Chemistry, Graduate School of Science,
the University of Tokyo, Tokyo, Japan**

Metal-dependent activity control of a compact-sized 8–17
DNAzyme based on metal-mediated unnatural base pairing

A metal-responsive allosteric DNAzyme was developed
by modifying the compact-sized 8–17 DNAzyme with
 Cu^{II} -mediated artificial base pairs. The activity of the
modified DNAzyme was enhanced 5.1-fold by the
addition of one equivalent of Cu^{II} ions, showing
good metal responsiveness.

As featured in:



See Yusuke Takezawa,
Mitsuhiko Shionoya *et al.*,
Chem. Commun., 2024, **60**, 288.