



Showcasing joint research from the laboratories of Prof. Taki, Prof. Kuwahara, Prof. Miyashita, Prof. Kan and Prof. Yang at the University of Electro-Communications (UEC), Nihon University, Kindai University, Hokkaido University and the University of Wisconsin.

ARCaDia: single-round screening of a DNA-type targeted covalent binder possessing a latent warhead

This work presents a single-round selection method for covalent aptamers from an environment-sensitive warhead-modified DNA library, employing a unique affinity/reactivity-based co-selection strategy. It effectively bypasses the labour-intensive steps associated with traditional SELEX-based methods while simultaneously identifying the optimal warhead position on the aptamer.

### As featured in:



See Masumi Taki, Jay Yang *et al.*,  
*Chem. Commun.*, 2024, **60**, 14964.