

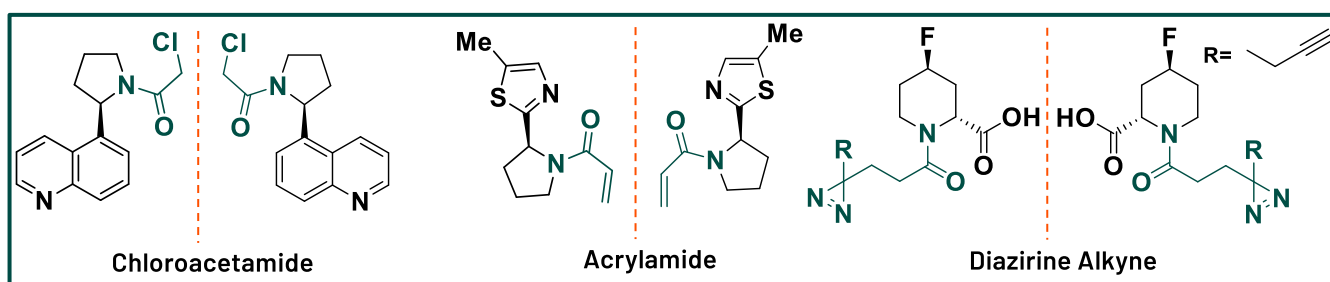


## LCC'S MOLECULES OF THE MONTH

### Enantiopair Fragment Libraries

**Chemoproteomics** has emerged as a **key technology** as it offers a proteome-wide evaluation of the selectivity of chemical tools, which offers the advantage of giving insight into and minimising the risk of off-target toxicity.

Since LCC specialises in the development of **chiral heterocyclic compounds**, we are in a unique position to offer fragment libraries consisting of enantiopairs, which can be used as enantioprobes in chemoproteomics as described by Cravatt et al.<sup>1</sup> Hence, we have designed **sets of pre-plated libraries which consist of 48 enantiopairs** per 96-well plate, allowing for the identification of stereoselective protein-fragment interactions.



LCC's fragment selection is **novel**, diverse, of high quality, with good predicted physicochemical properties. The library is also **highly developable**, with hit expansion made possible using our **near neighbour analogues**.

Using a selection of 48 enantiopairs, along with the capabilities of our **parallel synthesis laboratory**, we can provide **standardised sets of acrylamide, chloroacetamide, and diazirine alkyne enantioprobe covalent fragments**. Customised selections from LCC's fragment library are also available (with the option of covalent warhead addition).

Please contact us at [sales@liverpoolchirochem.com](mailto:sales@liverpoolchirochem.com) to discuss how we can enhance your fragment library!

1. Y. Wang, M. Dix, G. Bianco, J. Remsberg, H. Lee, M. Kalocsay, S. Gygi, S. Forli, G. Vite, R. Lawrence, C. Parker and B. Cravatt, *Nature Chemistry*, 2019, 11, 1113-1123.