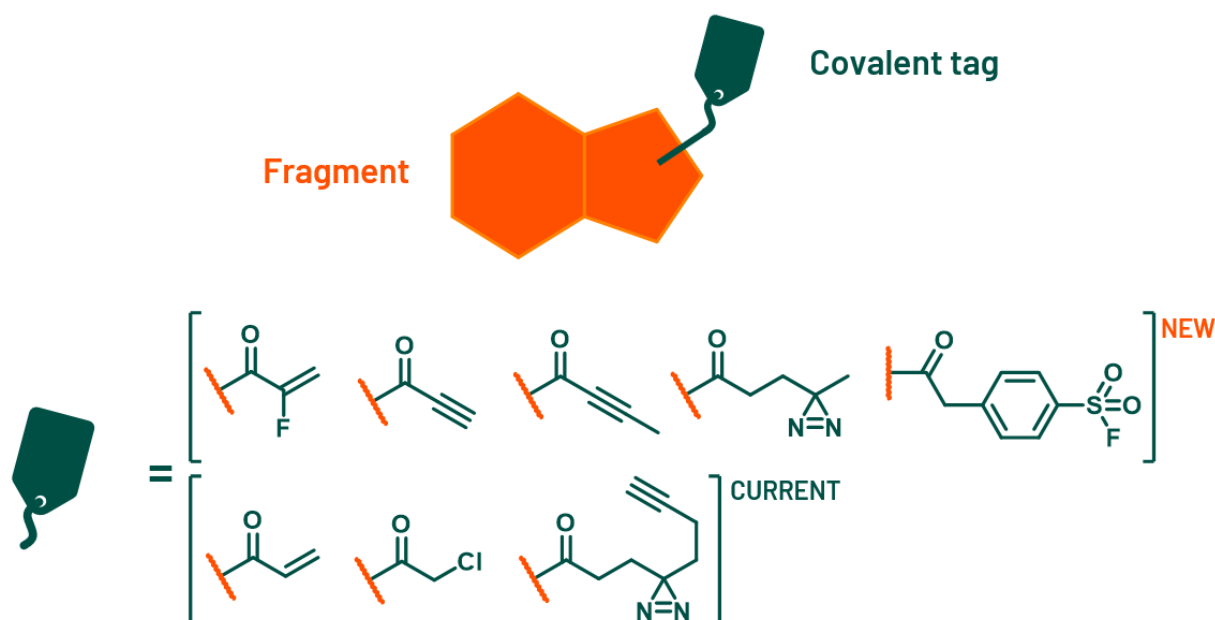




LCC'S MOLECULES OF THE MONTH

New Covalent Tags

Fragment-based lead discovery (FBLD) has proven to be an increasingly important tool for discovering lead compounds, through using both biochemical and biophysical methods to detect very small molecules. Thanks to the success of FBLD, the use of **electrophilic fragments** has seen a renewal of interest in **covalent drug discovery**. In covalent FBLD, fragments are tagged with a **reactive electrophilic** warhead, which is then trapped through covalent binding to nucleophilic sites on the protein target.



With over **70% (>950 compounds)** of LCCs fragment collection containing **nucleophilic amines**, and the introduction of high throughput synthesis and warhead addition thanks to our new **parallel synthesis laboratory**, we can transform our Ro3 compliant fragments into fragments suitable for covalent drug discovery. The additional covalent tags will accompany the **acrylamide**, **chloroacetamide** and **diazirine** alkyne already available at LCC.

LCC's fragment collection is accessible via **2 methods**: 1) set of enantiopairs, delivered in a 96 well-plate and 2) customised selection of Ro3 compliant compounds.

To find out more about LCC's **new covalent tags** and **fragment libraries**, please get in touch at sales@liverpoolchirochem.com.