

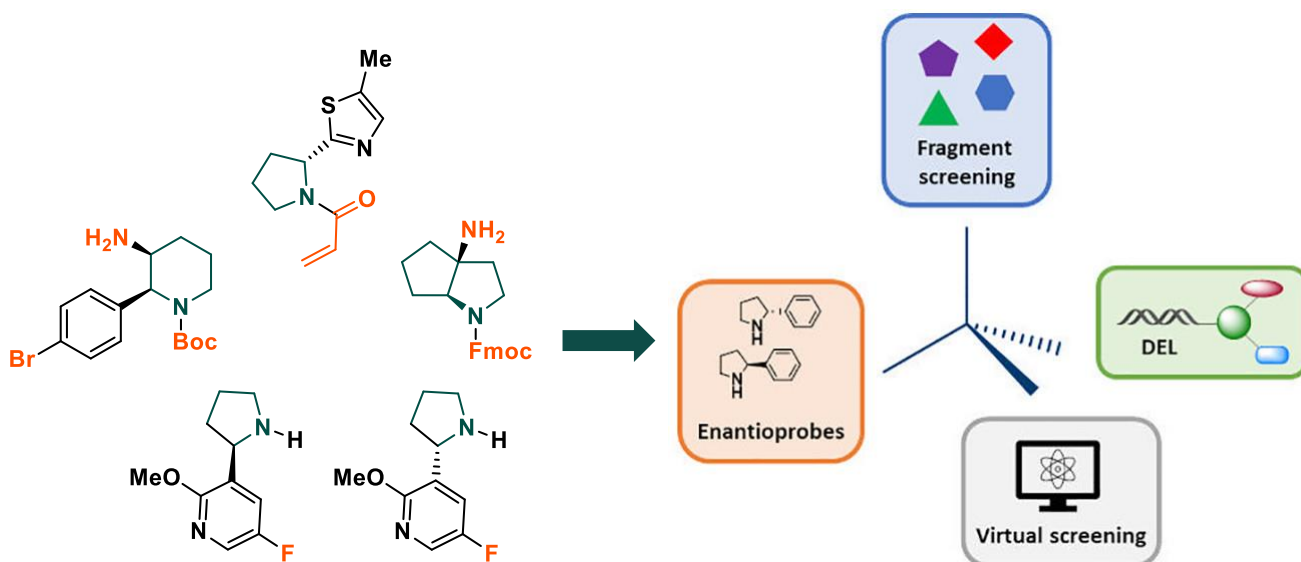


LCC'S MOLECULES OF THE MONTH

Importance of Chirality in Drug Discovery

LCC's very own Ilaria Proietti Silvestri and Paul Colbon have recently composed a minireview exploring the impact and importance that chirality has in the exploration of 3D chemical space and the specific requirements for different hit-ID technologies. They concluded that chirality plays a fundamental role in the **binding affinity** and **interactions** between the drug and its target, thus shaping the drug's pharmacology. There seems to be a clear necessity for **high fraction sp^3** , **multifunctionalised**, **stereodefined**, **3D compounds** within the drug discovery space and this is where LCC come in.

Chirality is a huge factor we take into consideration when designing our BBs. This is epitomised by **over 70%** of our in-stock compounds containing at least one **chiral centre**. Secondly, we are committed to designing **$sp^3/3D$ -rich, highly functionalised, stereodefined** compounds in order to provide the basis for enhancing existing libraries for screening technologies. This means that at LCC we are implementing the 4 important conclusion's from the minireview into our design process.



The examples above showcase how LCC have implemented these conclusions into their compounds and how the compounds have applications in the subsequent 4 areas of drug discovery.

Should you require further information, do not hesitate to get in touch with us at sales@liverpoolchirochem.com.