



## LCC'S MOLECULES OF THE MONTH

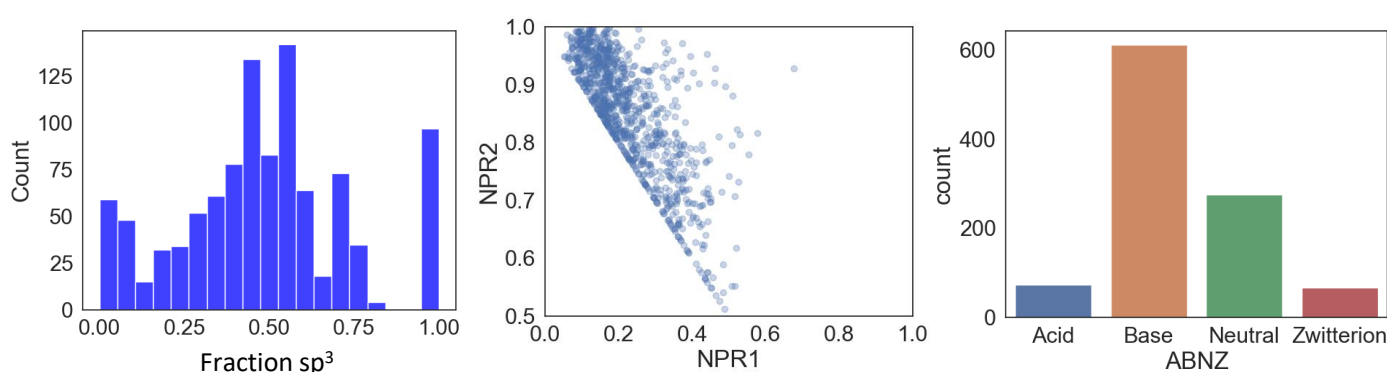
### 3D-Rich, Homochiral, Poised Fragment Library

There is a lack of representation of commercially available  $sp^3$ -rich molecules. At LCC, we have invested heavily into **absolute stereochemical determination** and quantification of enantiomeric excess measurements, meaning we are in a unique position to provide **novel, homochiral molecules in 3D-rich chemical space**. Hence, we have designed a **stand-alone fragment library** which covers  $sp^3$ -rich chemical space, meaning the overall library properties consist of:

- **Improved solubilities**
- **Improved ligand-receptor complementarity**
- **Reduced off-target activity**
- **Better starting points for hit expansion**

Additionally, the library also contains a selection of  $sp^2$ -rich 'flatland' fragments, to ensure there is **optimal chemical space coverage** and therefore **higher hit rates**.

Parameter	Count
MW	$\leq 300$
Rotatable Bonds	$\leq 3$
H-acceptors	$\leq 3$
H-donors	$\leq 3$
AlogP	$\leq 3$
Chiral Centres	0 - 3
% Homochiral	42%



The majority of fragments in the library are **highly developable "poised" fragments**, complemented by near-neighbour analogues and lead-like derivatives accessible within our 3Discovery virtual library for **efficient follow-up and fragment growth**. With a **Parallel Synthesis Lab co-located with the stock in the UK**, SAR exploration is rapid and effective.

To find out more about how our fragment library can be used to enhance your screening projects, contact us via email at [sales@liverpoolchirochem.com](mailto:sales@liverpoolchirochem.com).

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