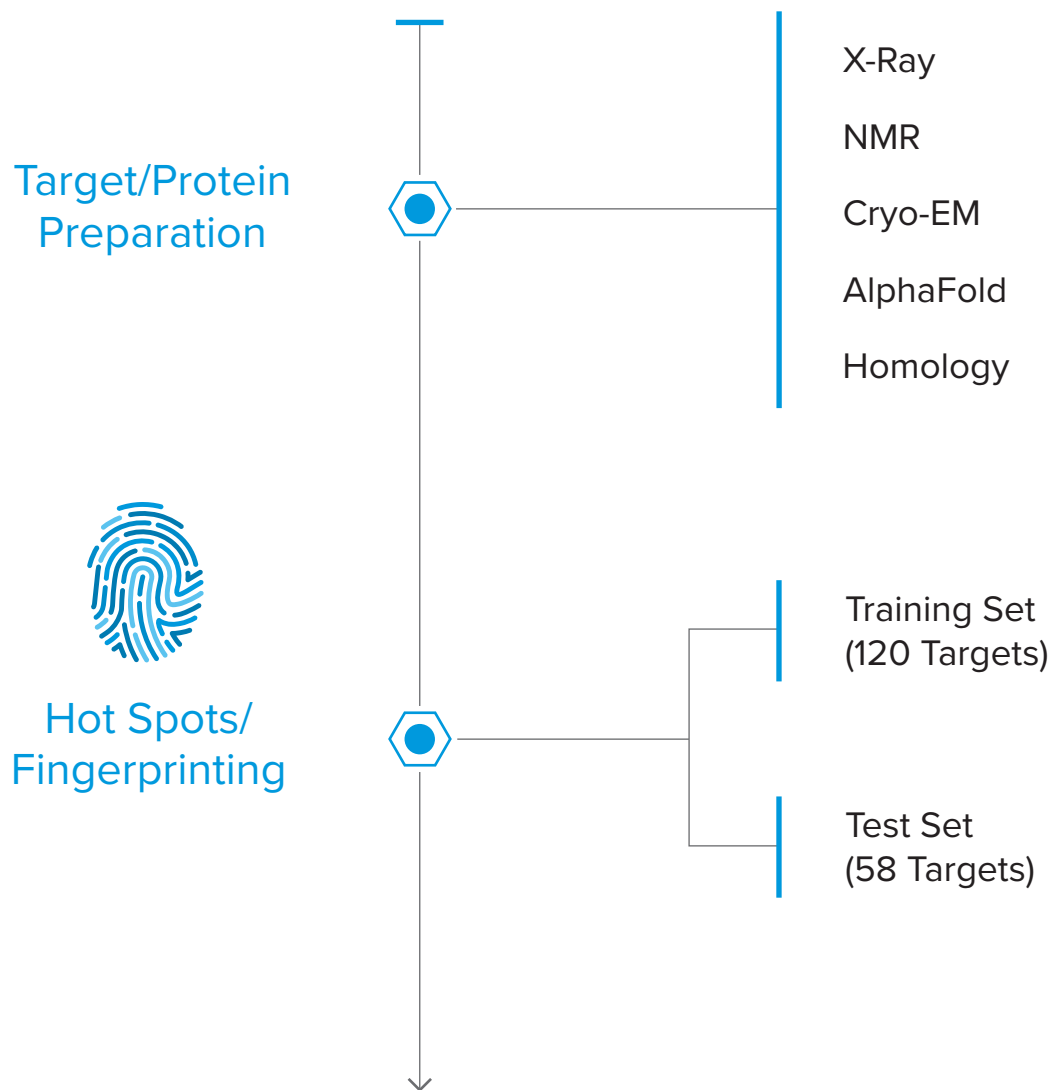




STEP 1 TARGET IDENTIFICATION (TID)

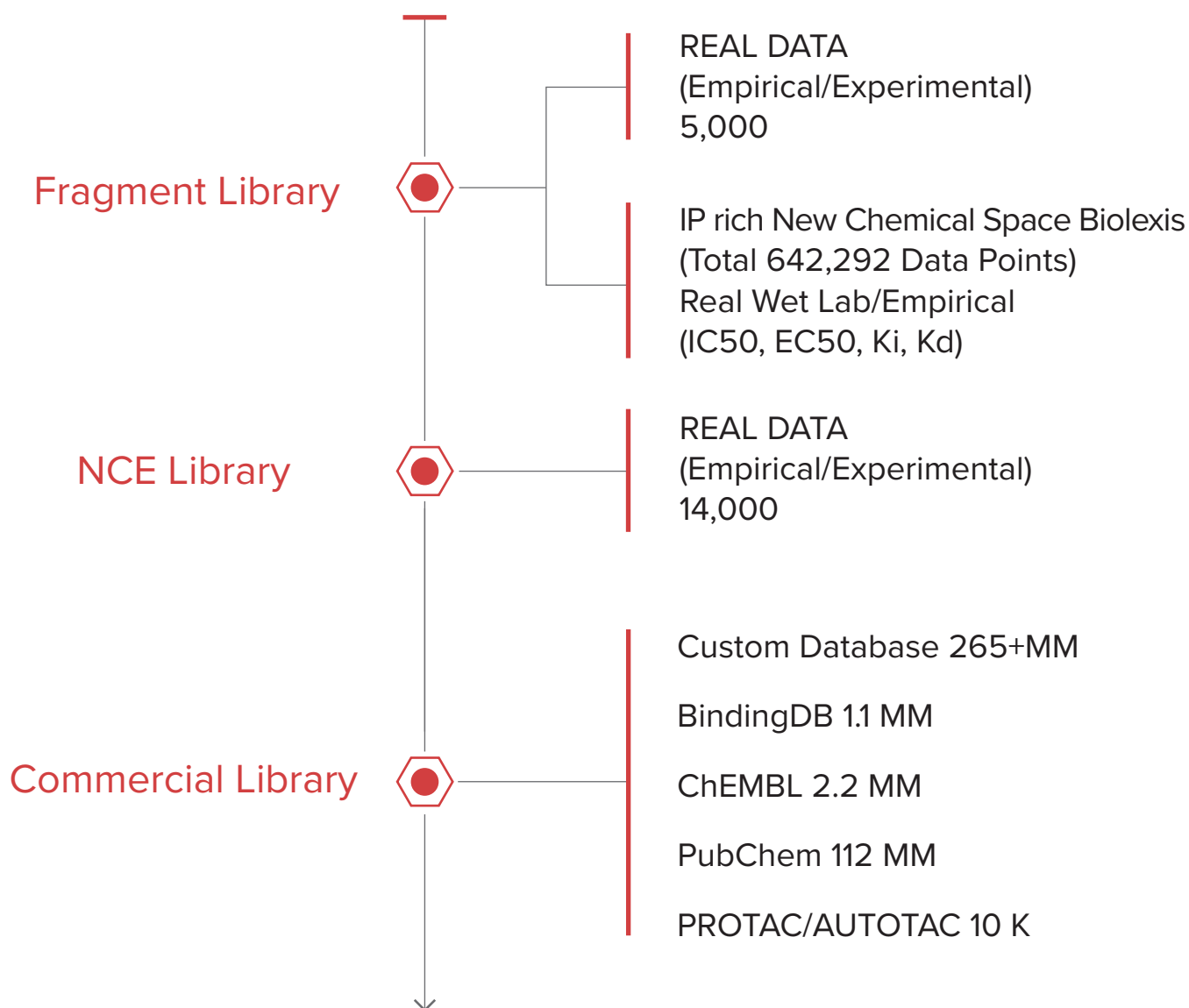
Our team rapidly identifies and validates druggable targets of interest based on powerful AI/ML training models combined with decades of experience in early drug discovery and disease-causing target gene expression.





STEP 2 MOLECULERN™ 2HITS (F2H)

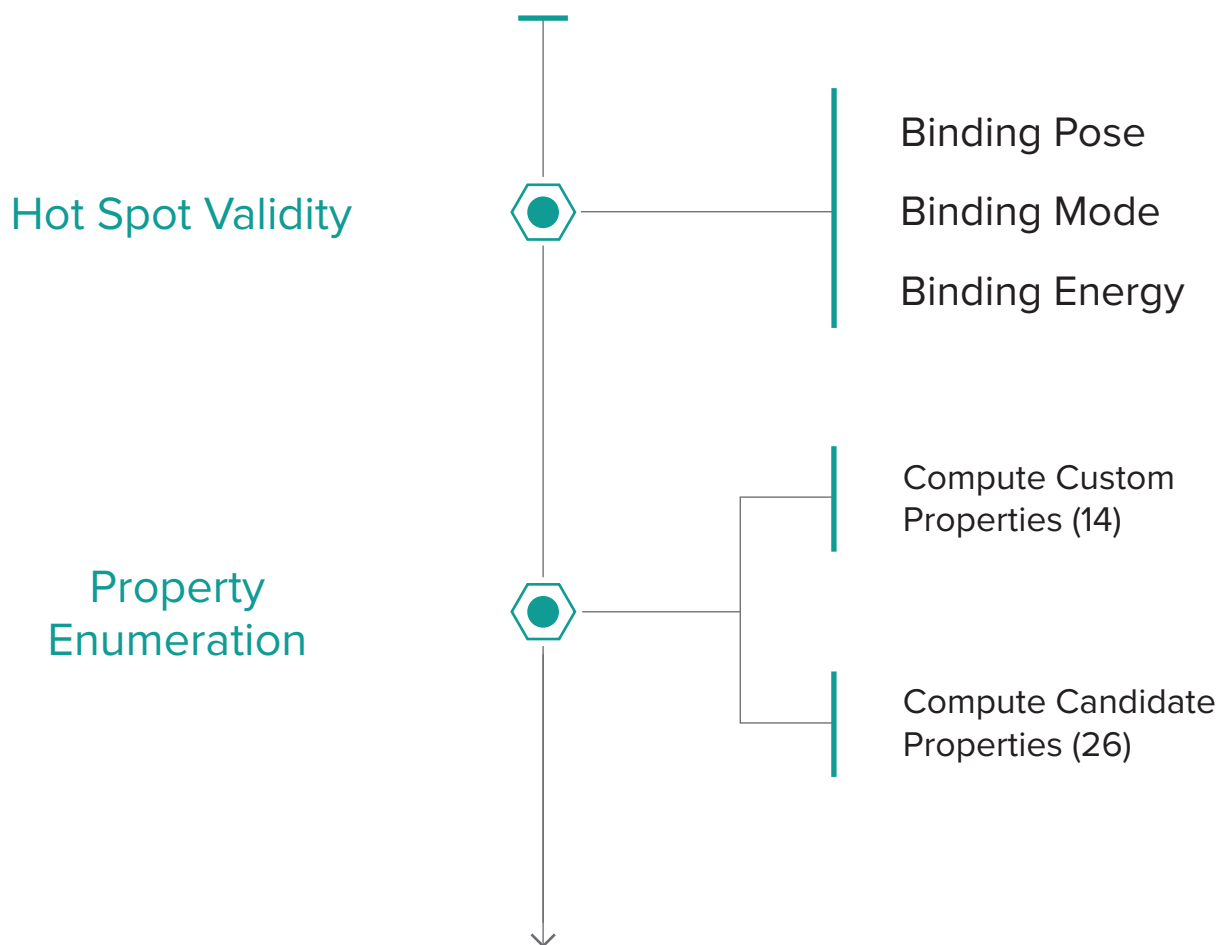
Using our proprietary set of over half a million real, wet lab/empirical data points, we analyze a spectrum of protein/small molecule interactions to determine high-quality hits against the protein targets of interest – all with unprecedented speed, exceptional accuracy, and IP-rich qualities.





STEP 3 F2H VALIDATION

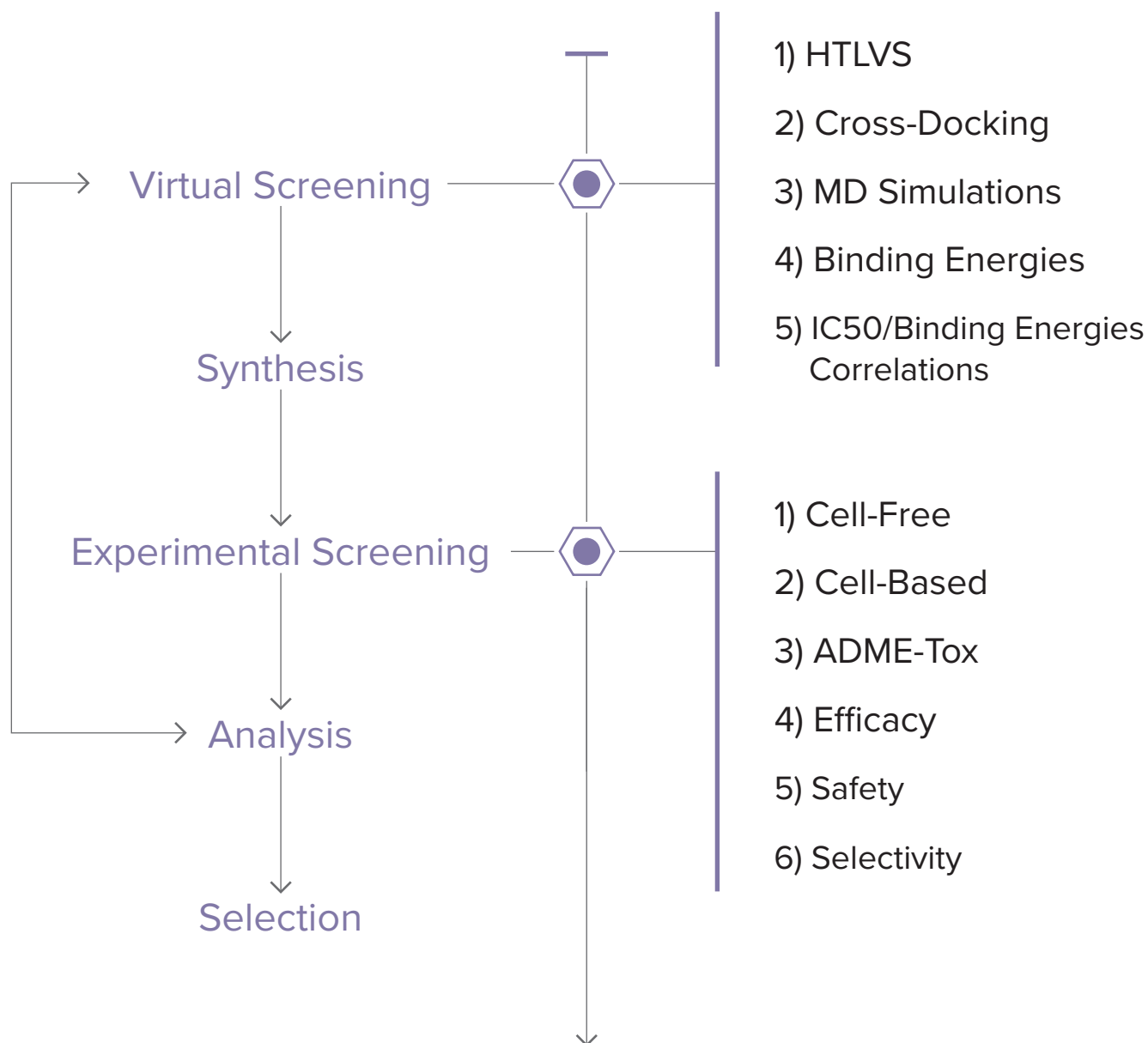
Our hits validation and selection process utilizes our set of target product profiles and ADME-TOX parameters incorporating our MolecuLern™ Hot Spot residue validation, binding mode, binding energetics, and human feedback loops.





STEP 4 HITS 2LEAD (H2L)

The best hit compounds are further optimized using machine learning / human-in-the-loop structure-based drug discovery methods, ADME-Tox property predictions, and virtual/experimental screening, allowing better drugs with fewer iterations.





STEP 5 LEAD OPTIMIZATION (LO)

Our lead optimization process heavily involves real data, human feedback loops, structure-based activities, and SAR for lead selection and NCEs.



- 1) Med Chem Tractability
- 2) Synthesis Feasibility Check
- 3) Properties
- 4) Developability Criteria
- 5) ADME-Tox
- 6) Safety/Secondary Pharmacology
- 7) Experimental Feed-Back



STEP 6 CANDIDATE NOMINATION

Our MolecuLern™ process with target binding, cellular efficacy, PK, ADME, pre-tox, biomarkers, and mouse model efficacy studies are the key to our candidate nomination process.

