Design and synthesis of novel scaffolds for therapeutically validated drug targets

In order to improve the potency and selectivity of inhibitors of validated drug targets, we rationally design and synthesize novel scaffolds based on X-ray data of co-crystal structures. The iterative process of computational design, organic synthesis and biological testing leads to detailed structure activity relationships for therapeutically validated drug targets. Ultimately, this allows for the development of novel drug candidates for the treatment of diseases. Our focus is on the design and synthesis part of the drug discovery process.