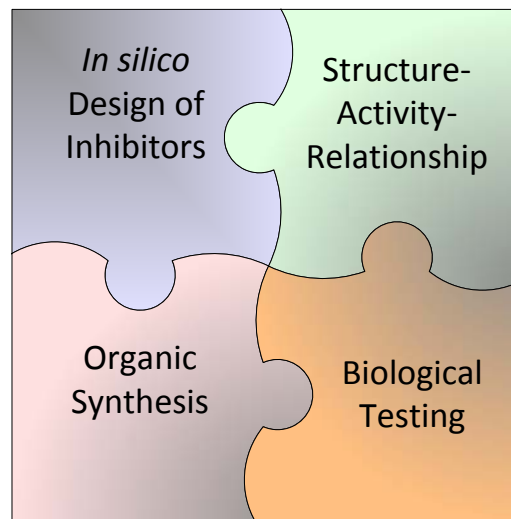
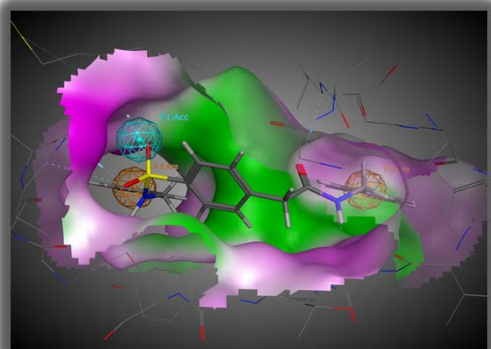


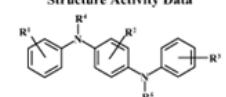
Design and synthesis of novel scaffolds for therapeutically validated drug targets

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.



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Head of Organic and
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Structure Activity Data



Compd no.	Structure					IC ₅₀ (nM)
	R ¹	R ²	R ³	R ⁴	R ⁵	
40	H	H	H	H	H	102
41	H	H	H	Me	H	> 10 ⁵
42	H	H	H	H	Me	80
43	H	H	H	Me	Me	> 10 ⁵
44	2-OH	H	H	H	Me	62
45	3-OH	H	H	H	Me	5.3
46	4-OH	H	H	H	Me	48
47	H	3-OH	H	H	Me	75
48	3-OH	3-OH	H	H	Me	1.2

