



Compounds for HTS
Chemical building blocks
Fragment libraries
Targeted libraries
Drug discovery services

CALCIUM CHANNEL BLOCKERS LIBRARY

OTAVA offers Calcium Channel Blockers Library. This library provides an excellent basis for drug discovery projects related with calcium channel.

The library consists of **901 compounds***.

All compounds are:

- **in stock**; available amounts: 1 – 50 mg
- **Drug-like only**; reactive, pan-assay interference (PAINS), redox-active and aggregator compounds were removed from the library.

QA/QC passed:

- minimal purity of compounds is **90%**;
- by **NMR** and/or **GC/LC/MS**
- **NMR spectra are available** upon request

Friendly packing services:

- **Cherry-picking is available**
- Supplied as dry powder or DMSO solution**
- Packaging in deep-well plates or barcoded vials***
- **Weighing out is free**

*Please note that the library does not contain known inhibitors. The compounds were selected with computational approach and are intended for screening projects

**there is additional fee for preparation of the solution


***4 ml amber glass vials or Deep-well plates: Matrix cat# 4247 (1.4 mL, Blank, Polypropylene, Round Bottom Tubes) w/CapMats. Or plates and vials provided by customer.

Design speciality:

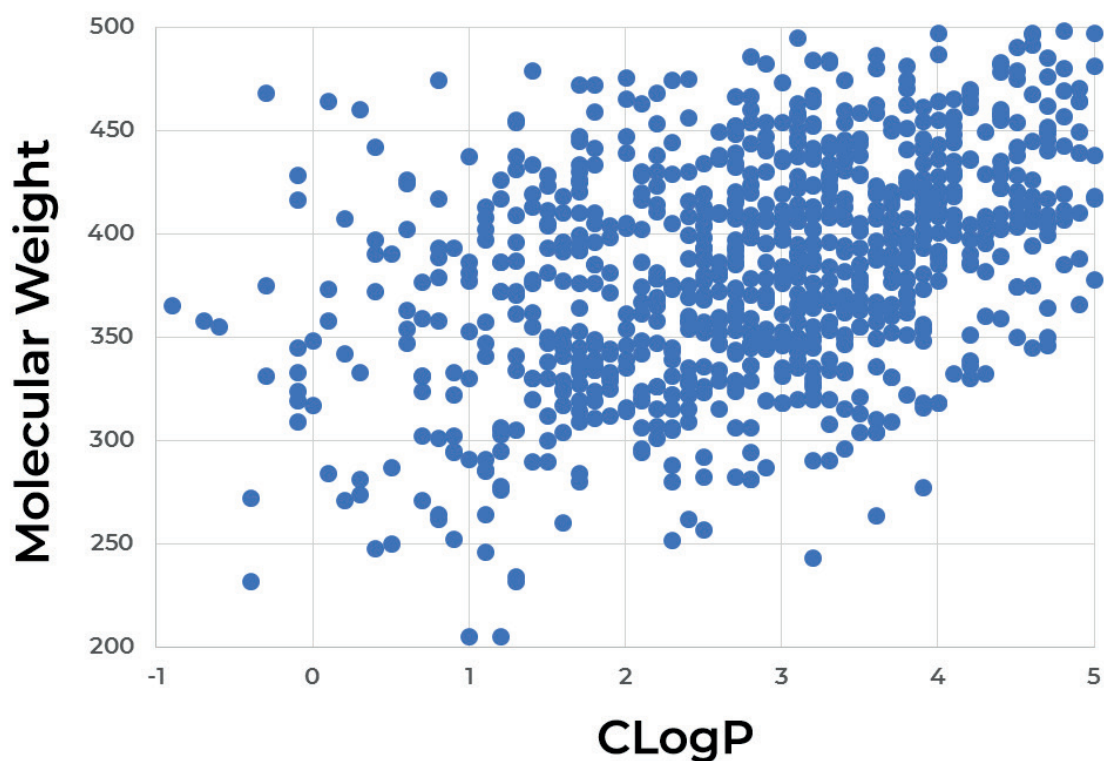
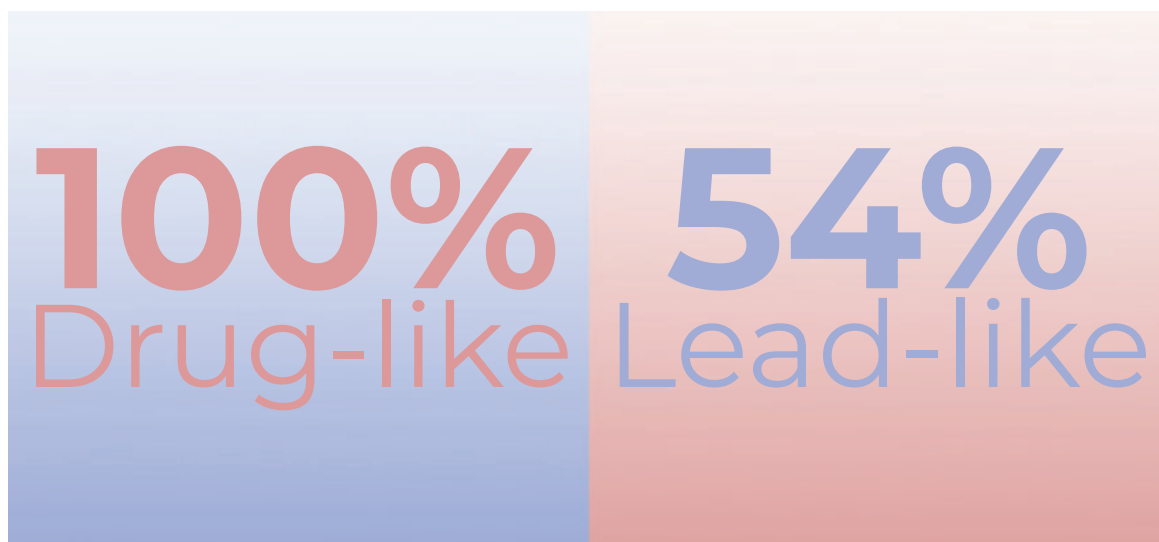
Our Calcium Channel Blocker library was designed as a special screening library containing compounds with predicted calcium channels blocking activity and selectivity. The compounds have been selected by pharmacophore screening of OTAVAchemicals Drug-like Green Collection against four ligand-based pharmacophore models. The models were built based on known calcium channel blockers.

The summary of the library characteristics:

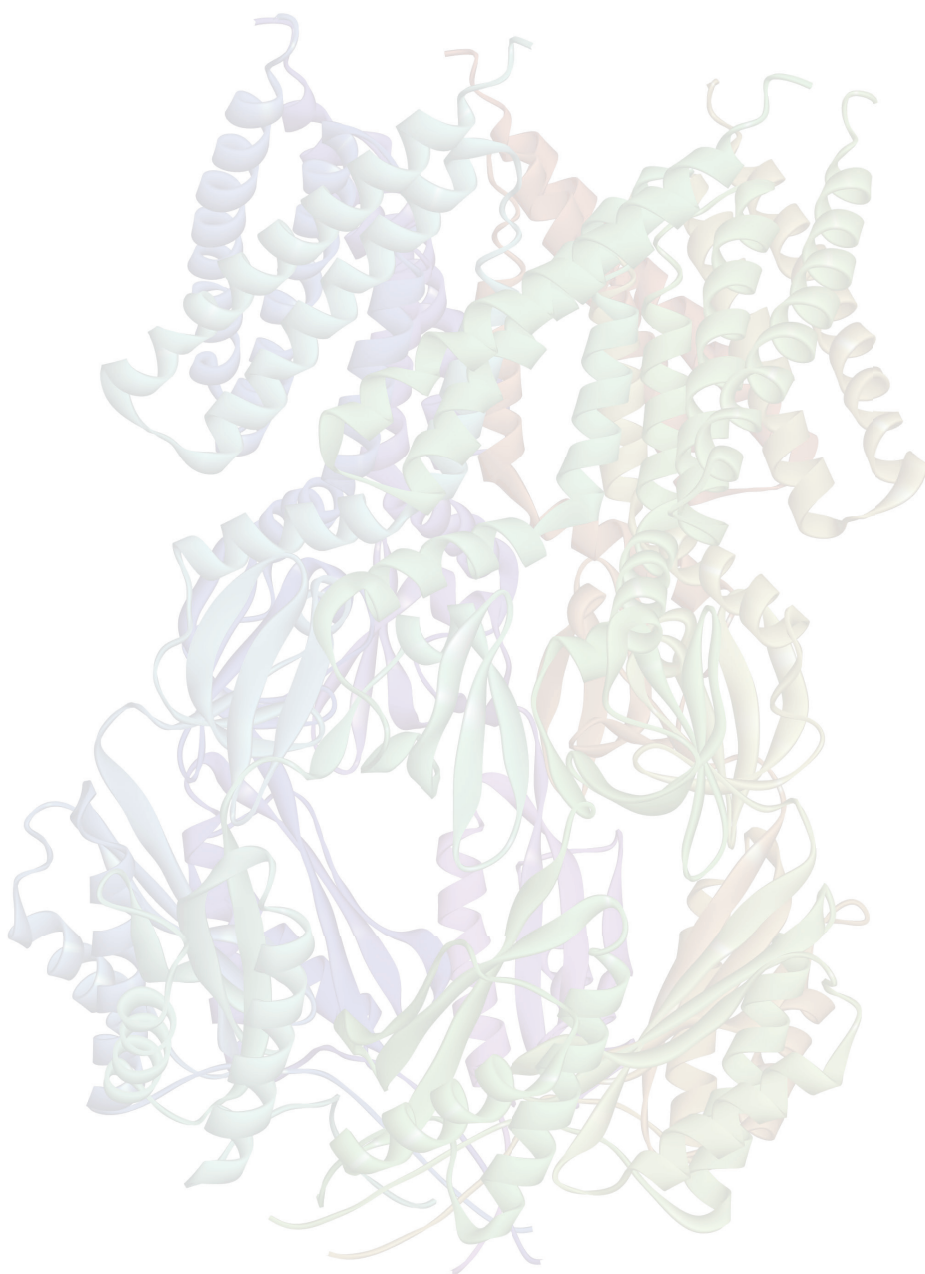
	Minimum	Maximum	Average value
Molecular Weight	205.2	500.9	384.3
Number of Hydrogen Bond Donors	0	4	1.6
Number of Hydrogen Bond Acceptors	2	9	4.8
Number of Rotatable Bonds	0	11	5.6
CLogP	-0.9	5	2.8
Number of Rings	2	5	3.2
Polar Surface Area	31.6	188.2	89.8



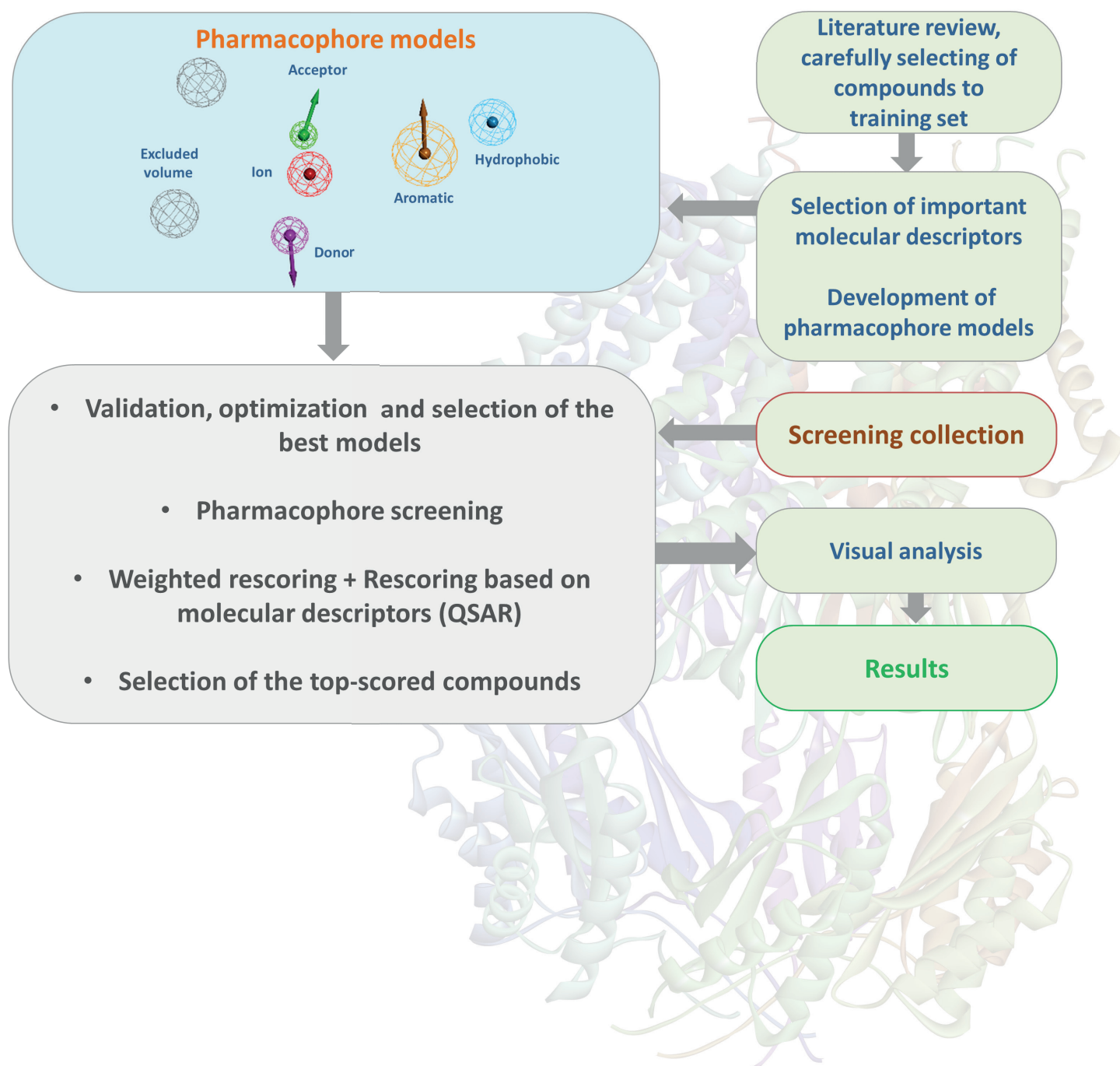
Distribution of physicochemical properties of compounds in the library:



Appendix 1



Scheme 1. Application of ligand-based pharmacophore modeling for targeted library:



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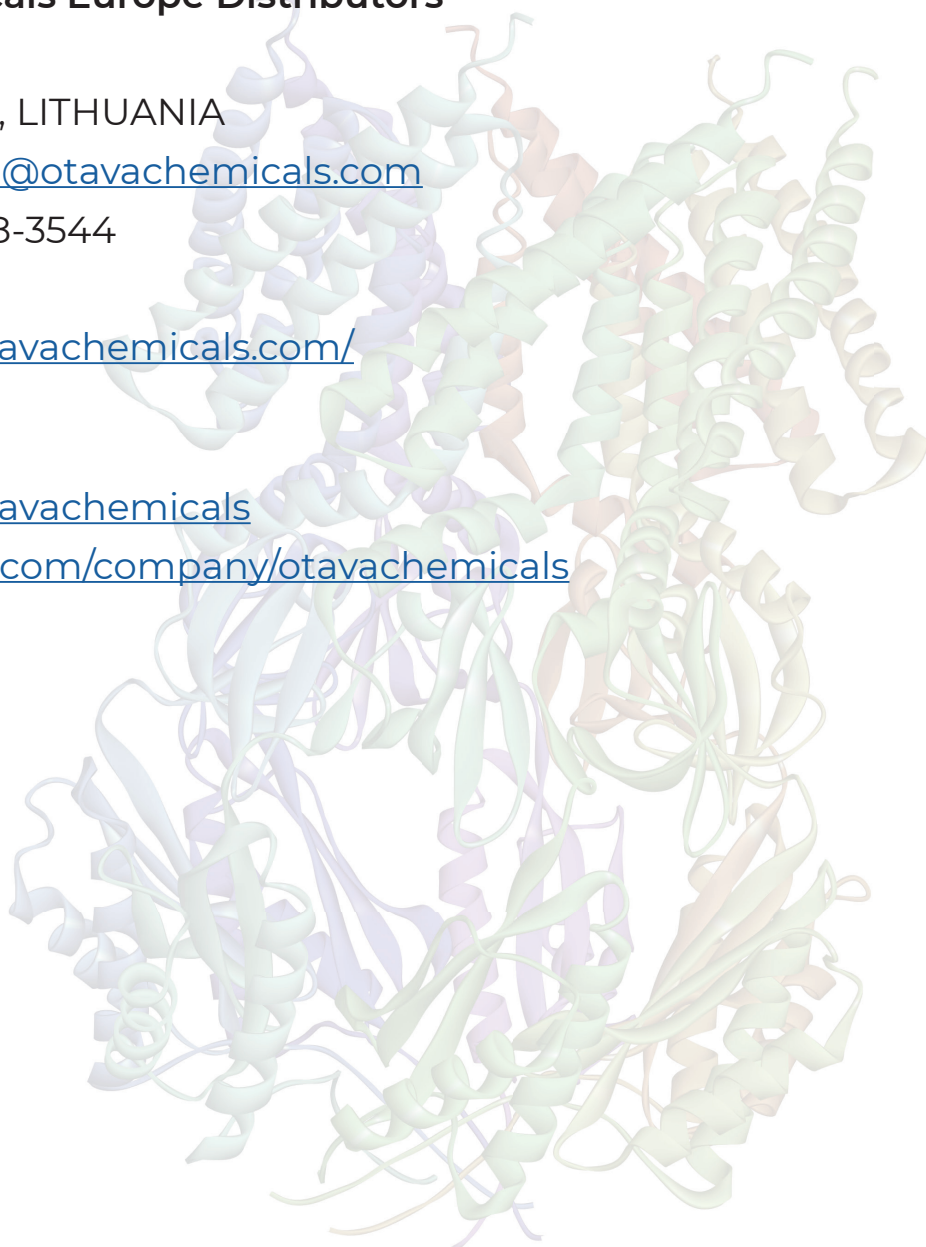
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