



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

POTASSIUM CHANNEL BLOCKER LIBRARY

OTAVA offers Kv1.5 Potassium Channel Targeted Library
This library provides an excellent basis for antianginal, antiarrhythmic, neuropathic research and drug discovery projects.

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.

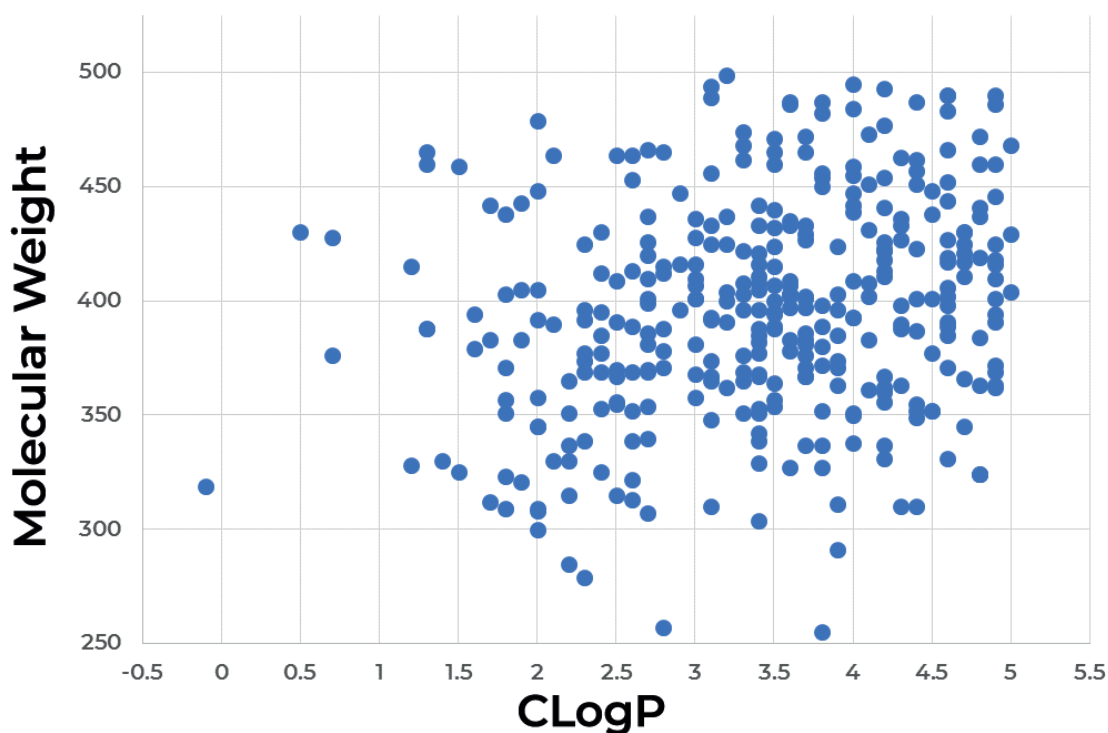
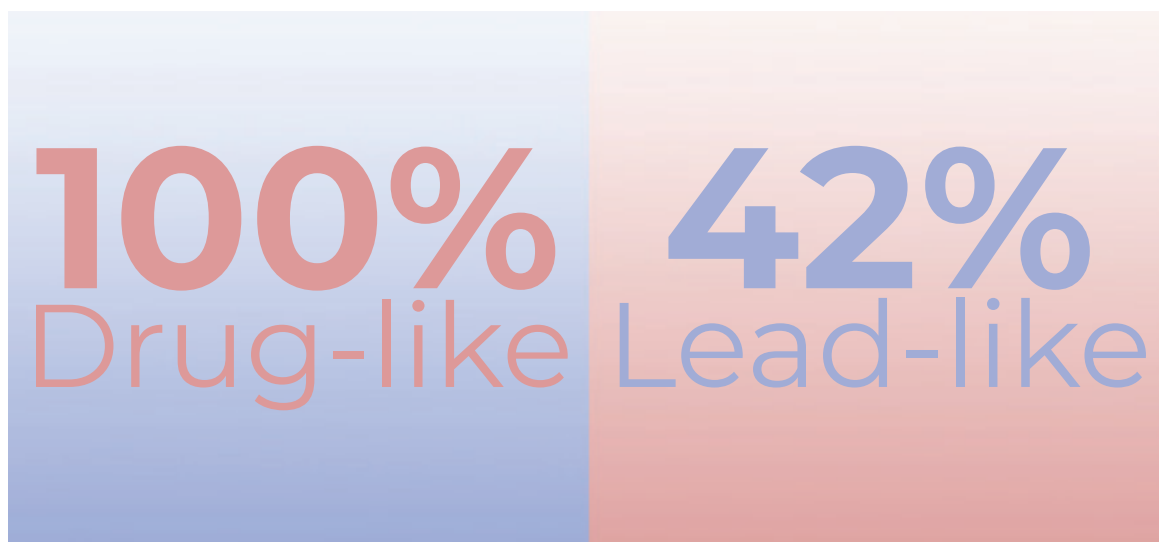
Design speciality:

The Kv1.5 Potassium Channel Targeted Library has been designed as a special screening library containing compounds with predicted Kv1.5 blocking activity and selectivity. A four-center pharmacophore model developed by Yang et al which includes one aromatic ring, two hydrophobic points, and a hydrogen-bond acceptor has been used for the library design. The model was derived from forty Kv1.5 blocker compounds with distinct chemical structure types. We opted this pharmacophore model for virtual screening (See Appendix 1) of OTAVACHemicals Drug-like Green Collection.

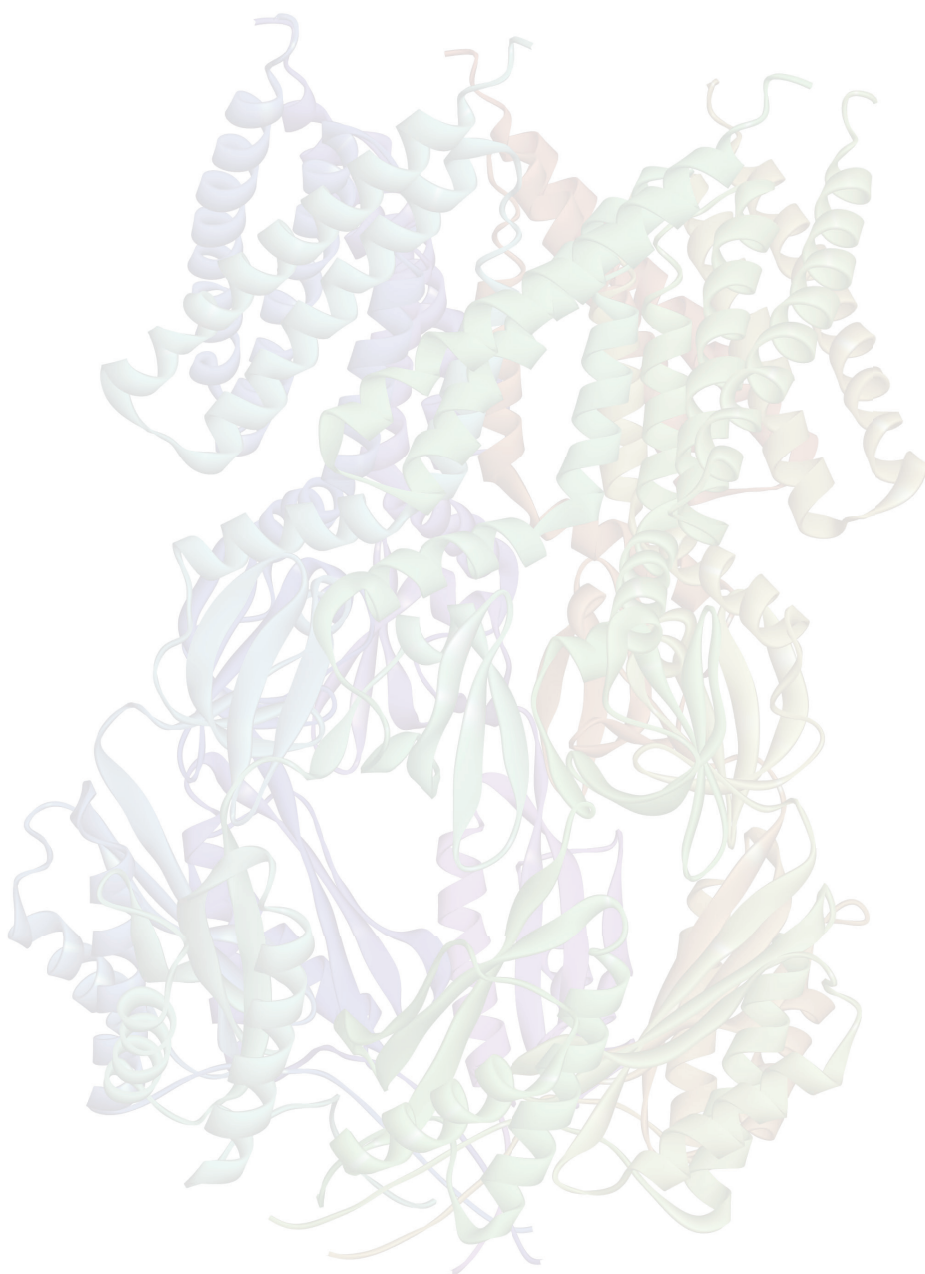
The summary of the library characteristics:

	Minimum	Maximum	Average value
Molecular Weight	255.3	499	400.5
Number of Hydrogen Bond Donors	0	4	1.1
Number of Hydrogen Bond Acceptors	2	8	4.8
Number of Rotatable Bonds	2	11	6.1
CLogP	-0.9	5	3.1
Number of Rings	2	6	3.3
Polar Surface Area	35.5	169.5	89.5

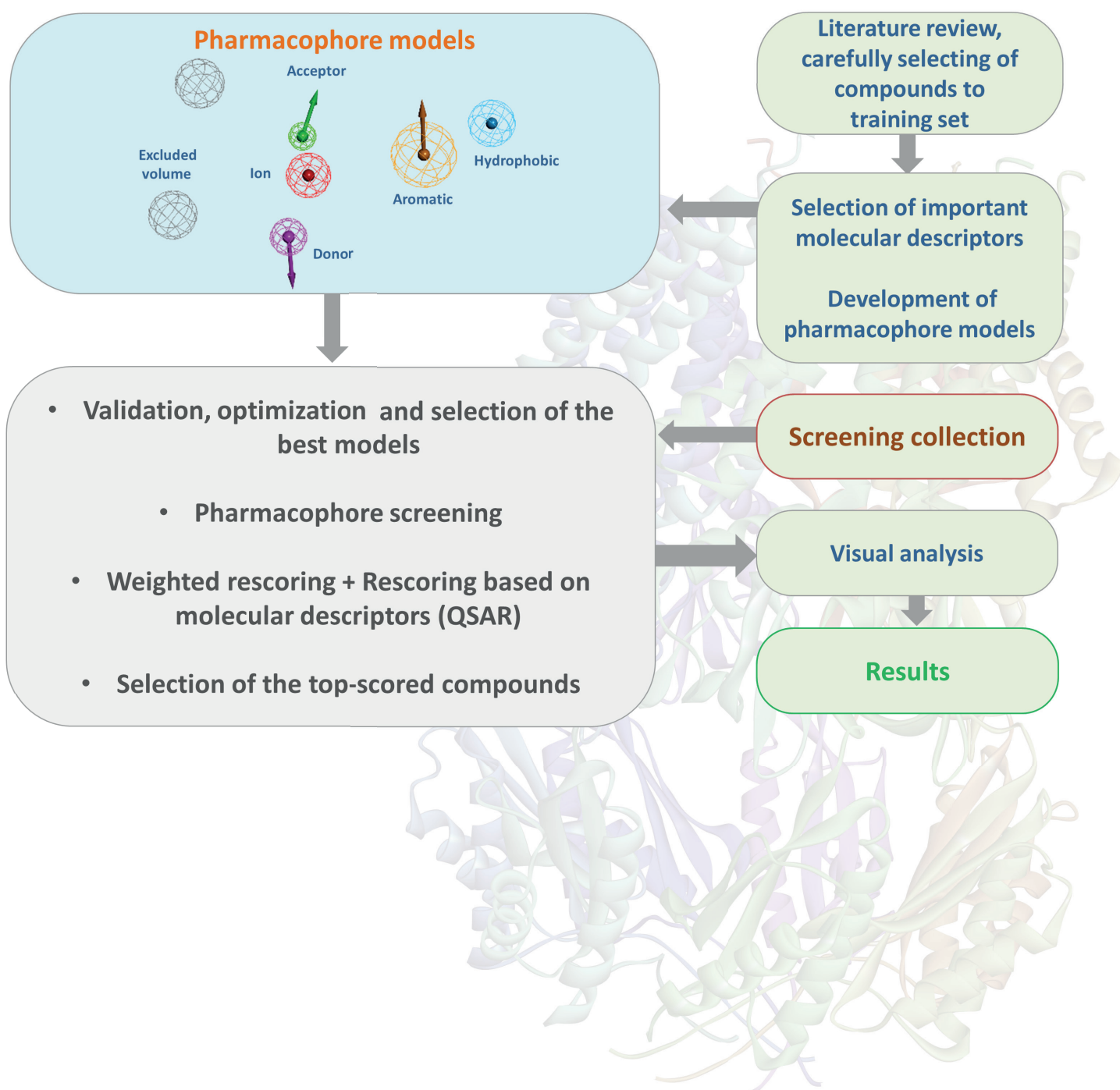
Distribution of physicochemical properties of compounds in the library:



Appendix 1



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



Our contacts:

OTAVA LTD.

400 Applewood Crescent, Unit 100
Vaughan, Ontario, L4K 0C3, CANADA

E-mail: north.america@otavachemicals.com

Tel.: +1-416-549-8030

OTAVACHemicals Europe Distributors

Meistrų g. 9

Vilniaus, 02189, LITHUANIA

E-mail: eurasia@otavachemicals.com

Tel.: +3-706-738-3544

web: <https://otavachemicals.com/>

Follow us:

<http://fb.me/otavachemicals>

<http://linkedin.com/company/otavachemicals>



OTAVA chemicals

Custom
synthesis

Molecular
modeling

Amyloids
detection

Contract
research

OTAVA Ltd.
65 Ellerslie Ave., Suite 560
Toronto, Ontario, M2N 1Y1
CANADA

OTAVACHEMICALS.COM