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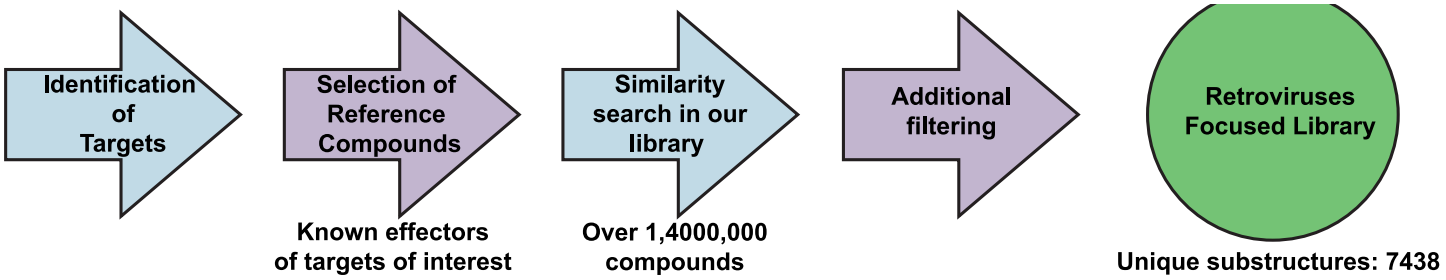
REVIRMARK

Retroviruses Focused Library

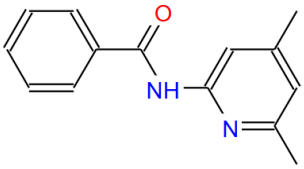
Retroviruses cause serious diseases in humans and animals, persist lifelong by integrating into host DNA, and can lead to cancers, immunodeficiencies, and chronic illnesses. HIV, the most well-known human retrovirus, remains a global health crisis despite antiretroviral therapy, as drug resistance and latent reservoirs prevent a cure. Animal retroviruses cause signifi- cant economic losses in agriculture and veterinary medicine while posing zoonotic risks. Retroviruses mutate rapidly, allowing them to evade immune responses and develop resistance to existing drugs. Additional- ly, some retroviruses, like human T-lymphotropic virus (HTLV-1), lack effective treatments, leading to fatal conditions like adult T-cell leukemia. The discovery of novel antivirals is crucial to combat resistant strains, improve long-term therapy, and potentially achieve a functional cure. Research into broad-spectrum retroviral inhibitors could also benefit both human and animal health, reducing cross-species transmission risks. Drug discovery efforts in retroviral field are essential to control current infections and prepare for emerging retroviral threats.



Example Targets:

HIV SIV Endogenous Retroviruses

HTLV Mouse Mammary Tumor Virus



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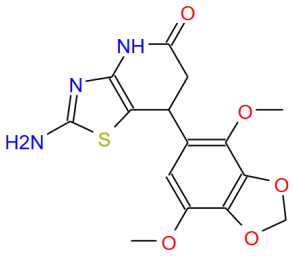

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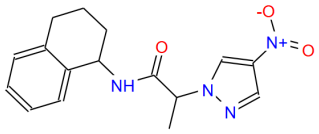

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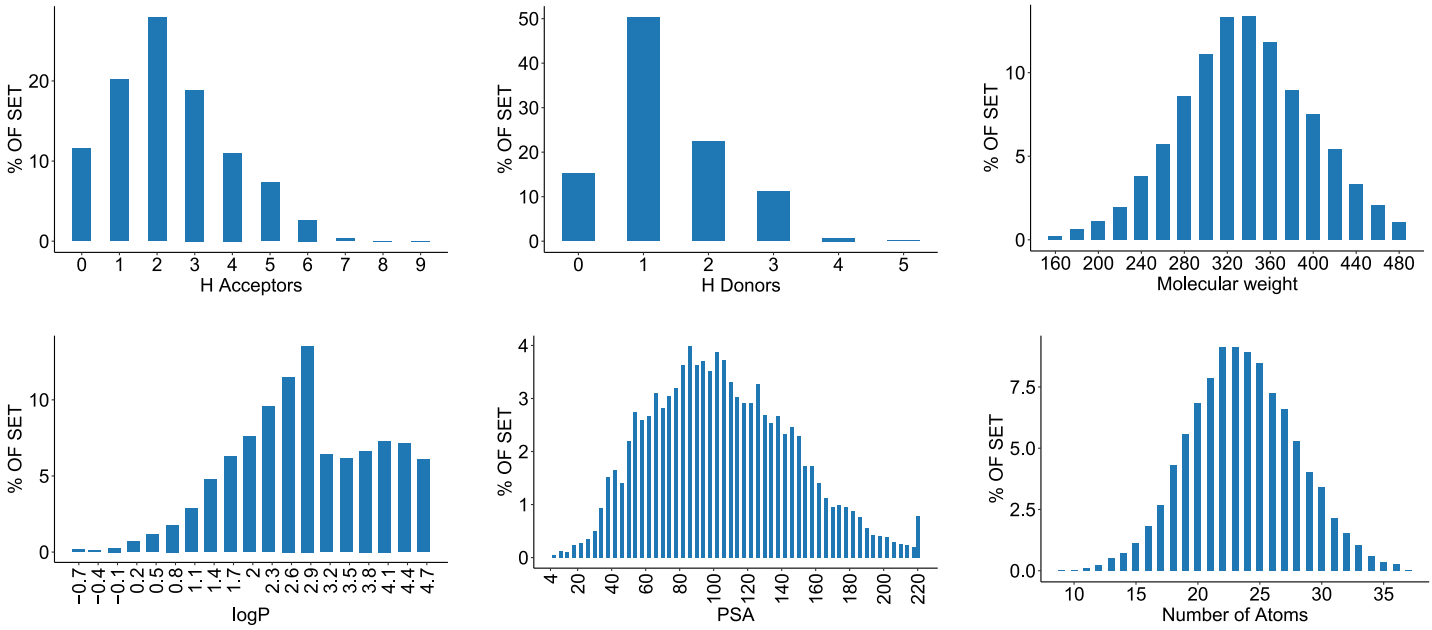
Retroviruses Focused Library (REVIRMARK) consists of compounds with potential antiretroviral activity, which were select- ed based on similarity to known effectors of key proteins, found in major retroviruses. This library was designed to provide a potential starting point or to expand ongoing drug discovery project. It is designed in a way that maximizes structural diversity and excludes problematic compounds. This library has 10965 compounds. All compounds follow RO5.

Distribution of Parameters



If you have any specific needs for your project, we can provide specially tailored compound library based on your request.

Have questions or need a quote? Contact Irina Haywood (Ryabushenko) at

irina@vitasmlab.biz

Let's Connect on LinkedIn! Expand your professional network.

We look forward to collaborating with you!

Empowering Your Research, One Molecule at a Time.