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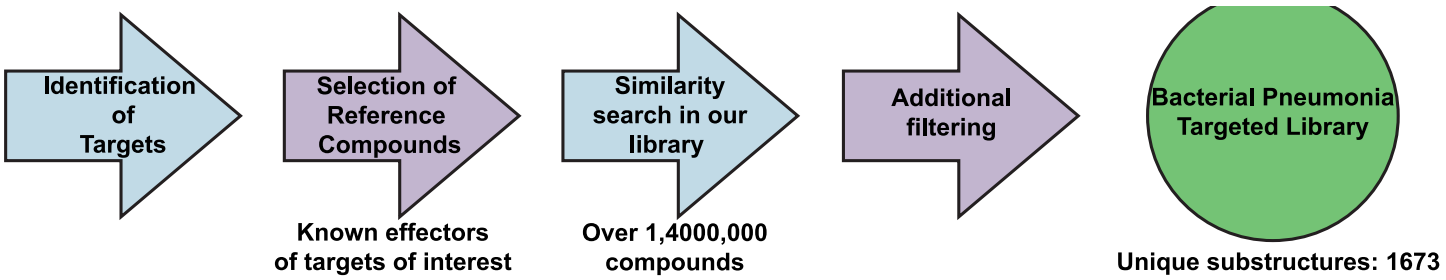
BACPNEMARK

Bacterial Pneumonia Targeted Library

Bacterial pneumonia is a significant global health concern, causing high morbidity and mortality, particularly among vulnera- ble populations like the elderly, immunocompromised individuals, and children. It is often caused by pathogens such as Streptococcus pneumoniae, Haemophilus influenzae, and Klebsiella pneumoniae. The disease leads to severe respiratory distress, systemic complications, and, if untreated, can be fatal. The rise of antibiotic resistance exacerbates the challenge, as traditional treatments become less effective. Multidrug-resistant strains of bacteria are increasingly common, rendering existing antibiotics inadequate and prolonging recovery times. This resistance crisis underscores the urgent need for novel drugs that can effectively target resistant strains and improve patient outcomes. Developing new therapeutics is critical to reducing the global burden of bacterial pneumonia, preventing complications, and curbing the spread of resistance. Without innovative treatments, the risk of untreatable infections grows, posing a dire threat to public health. Investing in research for new antibiotics and alternative therapies is essential to safeguard future generations.

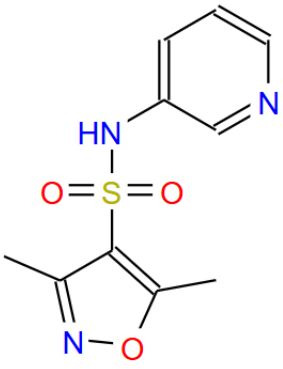


Example Targets:

Streptococcus Pneumoniae

Bacillus Anthracis Haemophilus Influenzae

Klebsiella Pneumoniae Legionella Pneumophila



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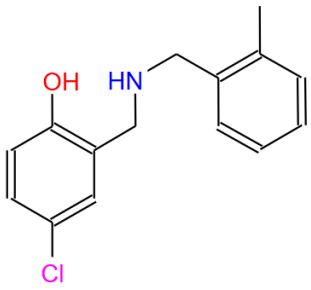

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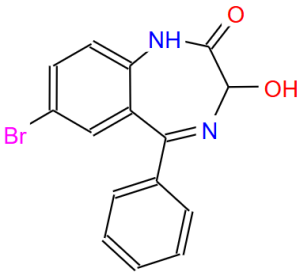
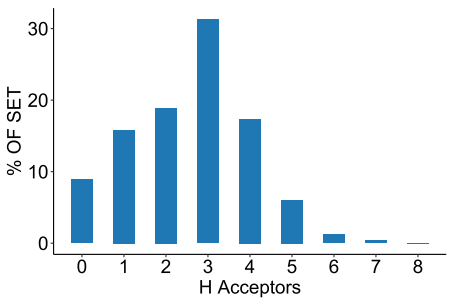
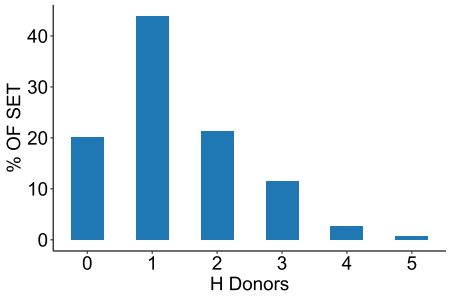


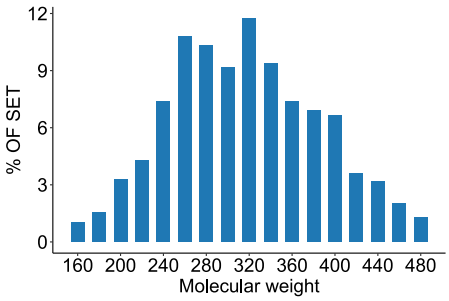
STK732045

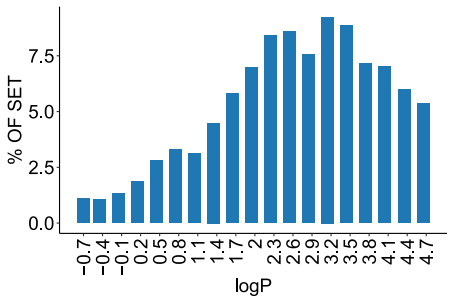
Bacterial Pneumonia Targeted Library (BACPNEMARK) consists of compounds with potential actibacterial activity, which were selected based on similarity to known effectors of proteins from pneumonia-causing bacterias. This library can serve as a potential starting point or to expand ongoing drug discovery project. It is designed in a way that maximizes structural diversity and excludes problematic compounds. This library has 2304 compounds. All compounds follow RO5.

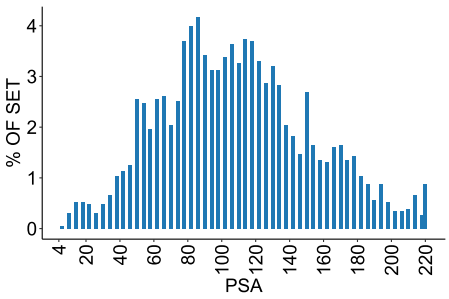
Distribution of Parameters

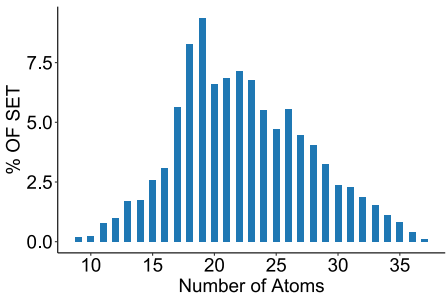












If you have any specific needs for your project, we can provide specially tailored compound library based on your request.

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.