





Introduction

Problem

- How many drugs are there?
- Drug development information is proprietary or disjointed.
- Need a systematized, comprehensive, all-encompassing resource.

Aims

- Provide definitive answers to all "how many" questions.
- Show what drugs are coming 'down the pipe' and for which diseases.
- Provide a resource for the translational research community for drug repositioning and repurposing.



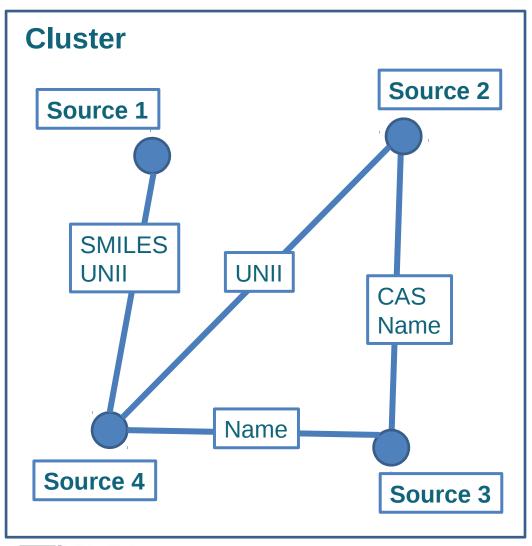
Overview

Inxight Drugs Comprehensive Collection of Drugs and Substances

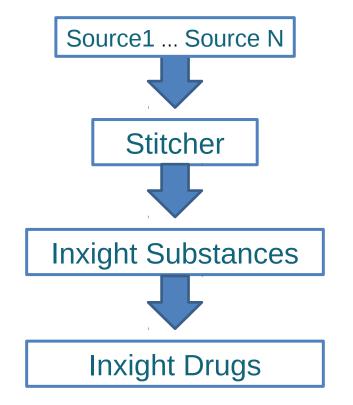
- 5 sources (51 in pipeline)
- 2,741 US Approved Drugs
- 7,298 Entered Clinical Testing
- 99,922 Substances
- 6,684 manually annotated compounds
- Based on NCATS GSRS
- "Stitcher" NCATS data unification and de-duplication software



NCATS Stitcher

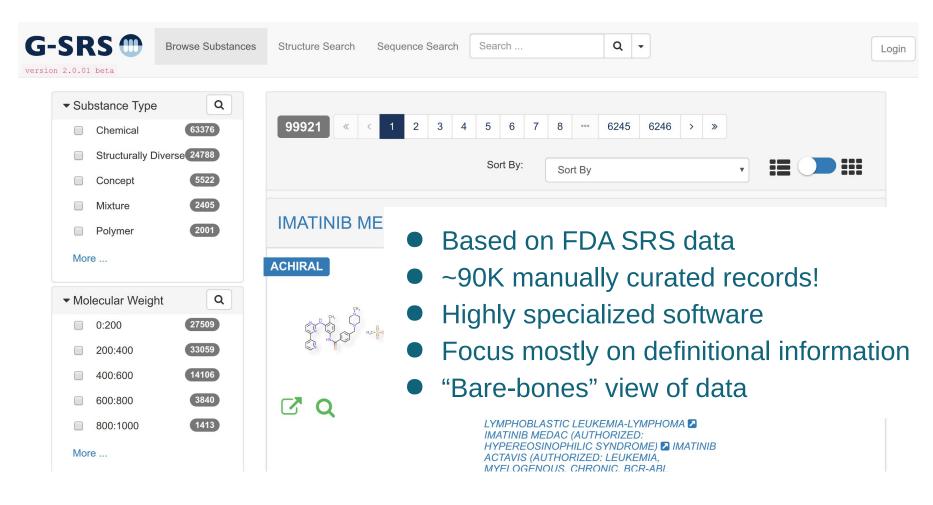


- 1 Cluster = 1 Substance
- Canonical Properties
- Parent / Children relationships





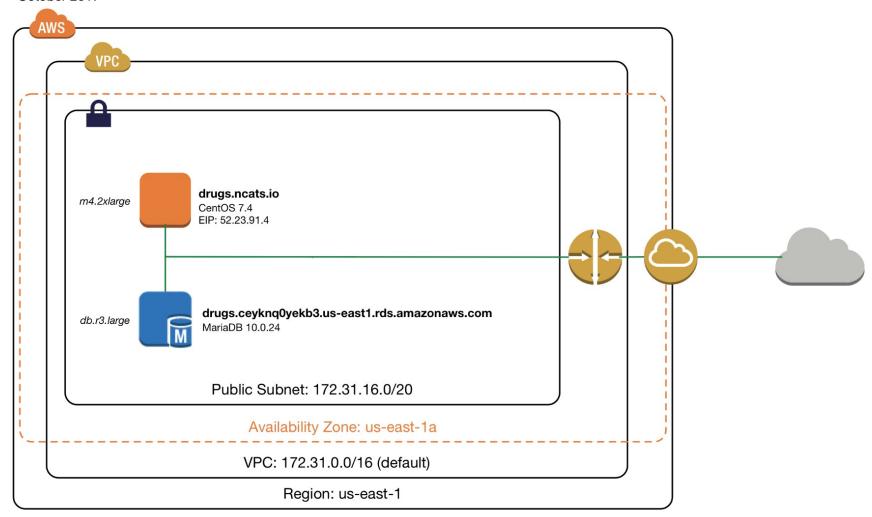
NCATS GINAS/GSRS





NCATS Drugs (Production) in AWS drugs.ncats.io

October 2017





Inxight Drugs



Inxight Drugs

Search Drugs .



The National Center for Advancing Translational Sciences has developed Inxight Drugs — a comprehensive portal for drug development information.

Inxight incoporates and unifies a wealth of data, including marketing and regulatory status, rigorous drug ingredient definitions, biological activity, clinical use and more.

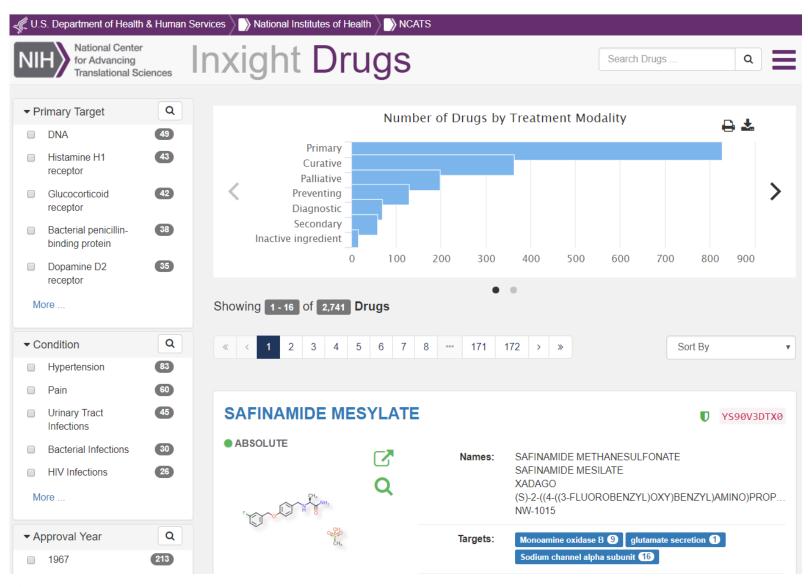
Inxight incorporates manually curated data provided by the FDA and private companies.

Currently, Inxight contains information on:

- 2,741 APPROVED DRUGS [2]
- 3,956 MARKETED DRUGS ☑
- 7,347 ENTERED CLINICAL TESTING
- 99,922 ALL SUBSTANCES 🖸

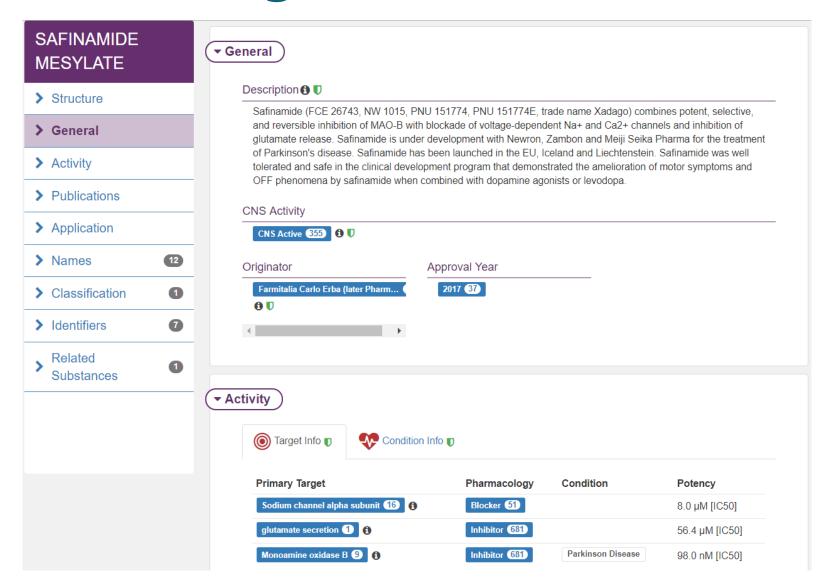
- Intended for wide audience
- Built on ISO 11238 core
- First-in-class data aggregation
- Manually curated data

Drugs List and Filters



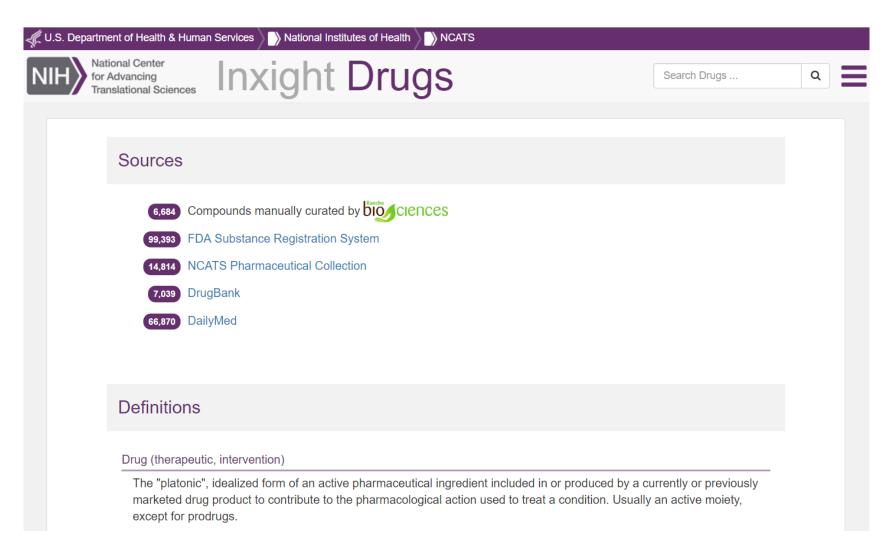


Drug Record Details





Sources and Definitions





DEMO



Summary

Content and Purpose

Complete drug development profile: from structural details to drug products.

Core Components

Precise scientific definition for the all the ingredients in medical products, as per the rigorous ISO 11238 definition.

Data Quality

Enormous amount of manually curated data: 90K entries from FDA SRS and 7K annotations from Rancho BioSciences

Data Aggregation

First-in-class automated facile data aggregation from multiple sources via Stitcher (5 implemented, 51 in the pipeline)



https://drugs.ncats.io

