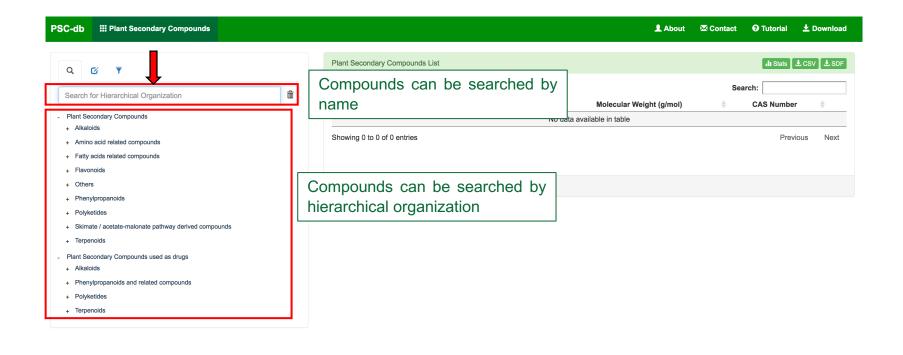
#### **PSC-db Tutorial**



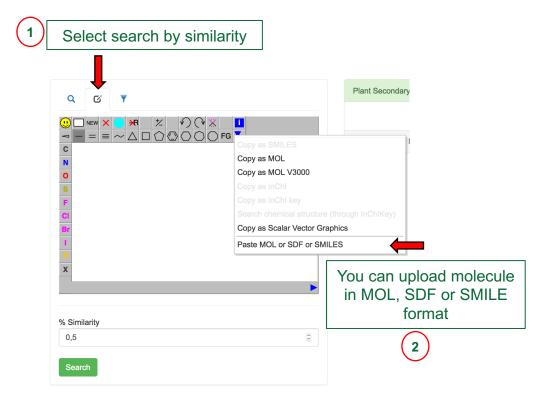
**PSC-db** is a free accessible database containing the 3D-structures of several Plant Secondary Compounds along with its physicochemical and pharmaceutical properties. It has been developed by the <u>Center for Bioinformatics</u>, <u>Simulations and Modelling (CBSM)</u> and the <u>School of Bioinformatics Engineering</u> at <u>Universidad de Talca</u>, the <u>Ramirez Lab</u> at <u>Universidad Autónoma de Chile</u>, in collaboration with the <u>DynaMo Center at University of Copenhagen</u>.

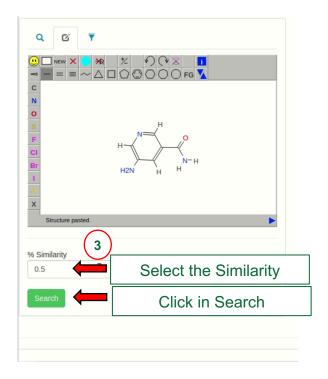
PSC-db

# 1. Searching molecules for hierarchical organization



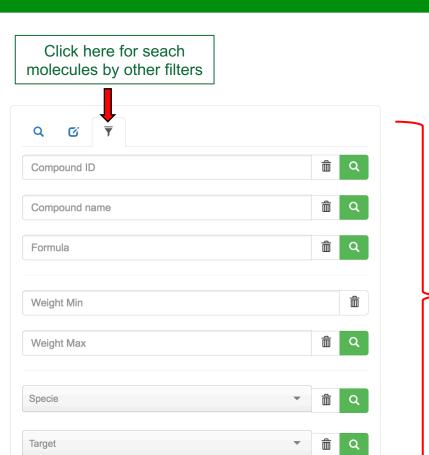
# 2. Searching molecules by Similarity





PSC-db

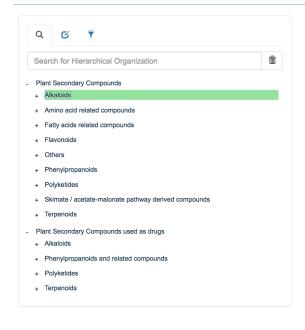
#### 3. Searching by other filter



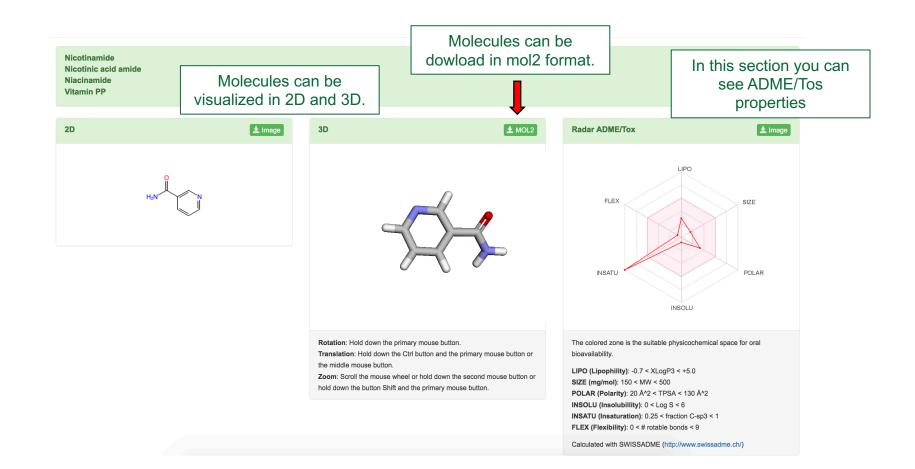
Filter molecule by:
Compound ID OR
Compound name OR
Formula OR
Weight Min – Weight Max OR
Specie OR
Target

#### 4. Visualizating molecules

### Click in this icon to visualizate the molecules



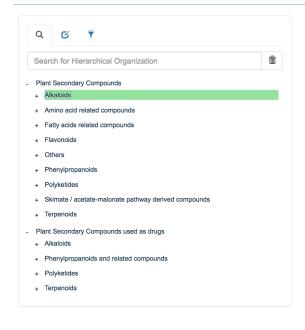
	ow 10 o entries				Search:		
D ÷	Names		Chemical Formula	Molecular Weight (g/mol)	CAS Number	4	_
0	Nicotinamide Nicotinic acid amide Niacinamide Vitamin PP		$C_6H_6N_2O$	122.12	98-92-0	•	
6	Nicotinate Nicotinic acid Niacin 3-Pyridinecarboxylic acid		$C_6H_5NO_2$	123.11	59-67-6	•	
7	Hypoxanthine Purine-6-ol		$C_5H_4N_4O$	136.11	68-94-0	•	
12	Xanthine		$C_5H_4N_4O_2$	152.11	69-89-6	•	
14	Tryptamine 3-(2-Aminoethyl)indole		$C_{10}H_{12}N_2$	160.22	61-54-1	•	<b>=</b>
17	L-Pipecolate Pipecolinic acid Pipecolic acid 2-Piperidinecarboxylic acid (S)-Piperidine-2-carboxylic acid		$C_6H_{11}NO_2$	129.16	3105-95-1	•	
25	Tyramine		C <sub>8</sub> H <sub>11</sub> NO	137.18	51-67-2	•	

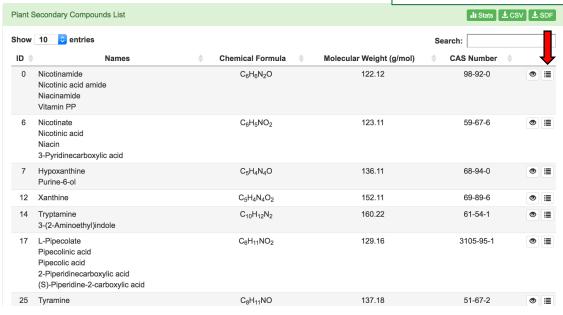


PSC-db

## 5. Visualizating compound details

Click in this icon to see compound datails





#### **6. Visualizating Statistics**

