

# MedChem Structures Genius



AVAILABLE

As WEBAPP & MOBILEAPP (iOS & Android, mobile and tablettes)



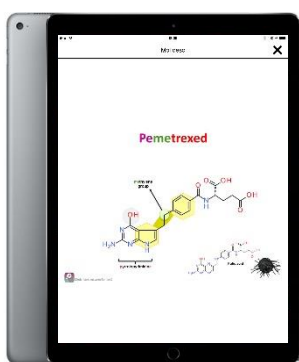
## Why?

The idea behind **MedChemStructures Genius** is that the chemical structure can be used as a visual and semantical mark to gain information on drug molecules (mode of action, side effects, bioavailability,...). This app, aimed at both students and professionals, allows learning to recognize chemical drug structures and link them to their INN and their pharmacological class. The quiz allows self evaluation.

## About us

This app was created and designed by Prof R. Deprez-Poulain (Drugs and Molecules for Living Systems laboratory, School of Pharmacy, Université de Lille2, [www.deprezlab.fr](http://www.deprezlab.fr)) along with Dr J. Charton, Dr V. Hoguet, Dr D. Bosc and students.

This was possible thanks to the support of the Innovative Educational Projects Office at the Université of Lille Law and Health ([www.univ-lille2.fr](http://www.univ-lille2.fr)).



## App Features

**BROWSE:** You can browse drug structures sorted by pharmacological class. You can select entries as **favorites** to quickly retrieve information.



**SEARCH:** You can search entries by the INN (International Nonproprietary Name), the pharmacological class.

**PLAY:** You can play to learn and evaluate yourself.

Parameters you can choose are:

- Therapeutic area: See above or select "All" if you want to play across therapeutic areas.
- Level: Essentials for easy to recognize or key molecules in the class; Intermediate for more complicated structures or other molecules in the class; Master/Indifferent for any level.
- Type of quiz: 4 types of quiz are available.

**Find INN from structure:** We give the structure, you choose the right INN amongst propositions

**Find class from structure:** We give the structure, you choose its pharmacological class amongst propositions

**Find structure from INN:** We give the name, you choose the right structure amongst propositions

**Find structure from class:** We give the pharmacological class, you choose all the structures belonging to this class

You can choose to record the time needed for you to complete the quiz by selecting chrono. You can choose to display clues during the quiz by selecting clues. The clues are images highlighting key structural features.



mobile



web

[www.mcsg.univ-lille2.fr](http://www.mcsg.univ-lille2.fr)



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MEK serine/threonine kinase inhibitors: -metelb

Chem: MEK kinase inhibitors

Chem Synonym:

Target: MEK

Target: Mitogen-activated protein kinase-related

Indications: Vascular disease

Link: [https://pubchem.ncbi.nlm.nih.gov/compound/MEK\\_inhibitor](https://pubchem.ncbi.nlm.nih.gov/compound/MEK_inhibitor)

Key publication:

Commentary:

Classification class:

Structure:

Menu

- Play
- Search
- Browse records
- Your favorites
- Help

Play parameters

- Choose therapeutic area
- Choose level
- Choose quiz type
- Choose options
- Your scores

Options

Chrono

Clues

Offline

The offline mode allows you to pre-load a quiz in order to play without internet connection. Before cutting the connection, ensure that the loading bar is complete.

Start game

Results

18/20

Excellent !  
We suggest to review the following records:  
[losartan](#)  
[glinides](#)

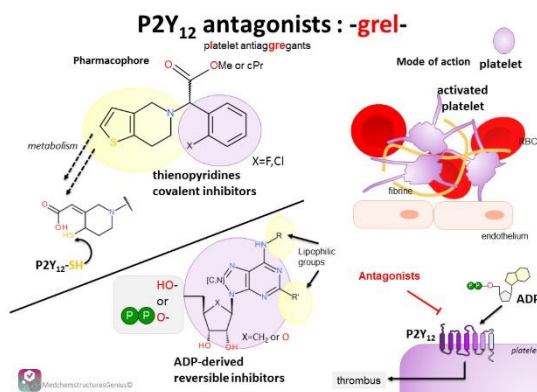
Share/mail:

Question 1/20

What is this structure's INN (or name) ?

Lypressin -  
 Ornipressin  
 Levothyroxine -  
 Pioglitazone -  
 Orlistat  
 Lanreotide -

Select



Choose level

Basic (essentials) Intermediate Master (all)

Choose quiz type

Find INN from structure Find class from structure Find structure from INN Find structure from class

