

# MedChem Structures Genius



AVAILABLE

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



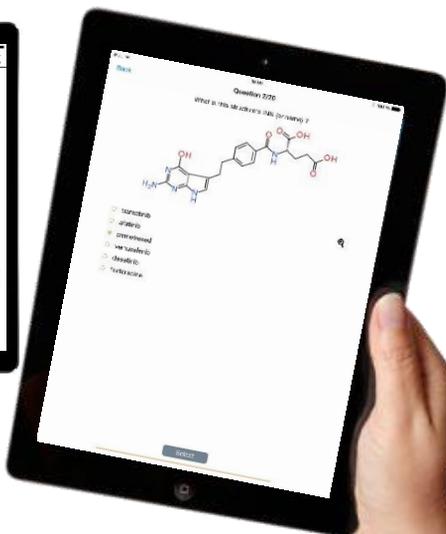
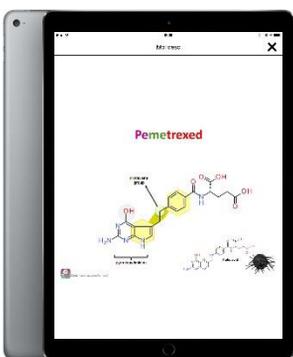
## Why?

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 de 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 quizz by selecting chrono. You can choose to display clues during the quizz 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-

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

Options: Lypressin, Ornipressin, Levothyroxine, Pioglitazone, Orlistat, Lanreotide.

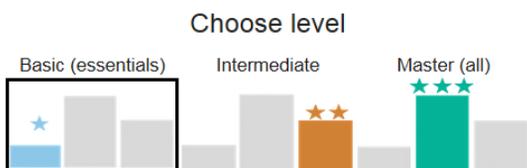
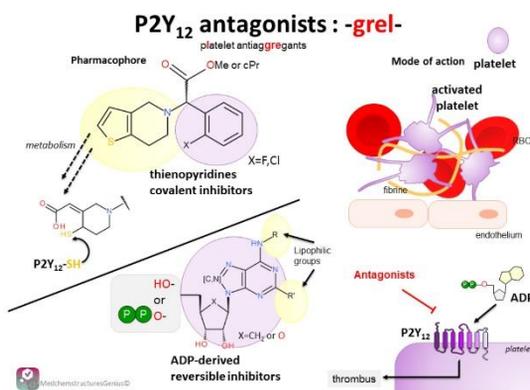
18/20

Excellent ! We suggest to review the following records: losartan, glinides

Question 1/20

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

Options: Lypressin, Ornipressin, Levothyroxine, Pioglitazone, Orlistat, Lanreotide.



Choose quiz type

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



mobile

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