eu**:::**openscreen

ES

High-capacity screening site

University of Santiago de Compostela (USC)

CIMUS Research Center, Avda de Barcelona S/N - 15706, Santiago de Compostela Spain

At a glance

- High capacity pharmacogenomics platform with access to the EU-OPEN-SCREEN European Chemical Biology Library and the European Academic Compound Library
- Biochemical and cell-based assays including label-free technologies and High Content Imaging
- > Early ADME-Tox profiling
- Vast experience in assay development and assay adaptation to HTS with more than 300 assays available
- Long track record in drug discovery and chemical biology with 15 NCE entering clinical trials
- Collaborative framework with visiting scientists working with our team for assay transfer



Infrastructure and technical focus

- Assay development laboratory for miniaturization
- Fully automated robotic platform for HTS for both biochemical and cell-based assays
- High Content Screening with automated analysis workflows
- > DNA-encoded libraries technology
- Biochemical and cell-based label-free screening
- High capacity for biological reagent production using disposable bioreactors
- Translational assays for target engagement and patient stratification





Prof. María Isabel Loza (Research Manager)

"EU-OPENSCREEN membership is the way of USC-Innopharma platform to collaborate with the best science and knowledge in early drug discovery and chemical biology across Europe."

Projects past and present

2021 | DRUGtrain Drug repurposing and discovery multidisciplinary training network 🔊 Link

2019 | Pharmaceutical development of fast-track and innovative therapies targeting ACE2 for COVID-19

2020 | CANCER INNOVA Business Factory Medicines. Incubator of projects in the field of cancer drug discovery **→** Link

2018 | Joint I+D Unit ESTEVE - USC Developing new medicines to treat chronic pain → Link

Our science in selected publications

Identification of ABA Receptor Agonists Using a Multiplexed High-Throughput Chemical Screening Methods

→ Mol Biol. 2021;2213:99-111

Identification and characterization of Cardiac Glycosides as senolytic compounds

→ Nat Commun. . 2019 Oct 21;10(1):4731

Fibrates as drugs with senolytic and autophagic activity for osteoarthritis therapy

➡ EBioMedicine. 2019 Jul:45:588-605

A New Model of Sensorial Neuron-Like Cells for HTS of Novel Analgesics for Neuropathic Pain

◆3 SLAS Discov. 2019 Feb;24(2):158-168

Further info and site-contact

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