

University of Santiago de Compostela (USC)

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„EU-OPENSSCREEN 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.“

At a glance

- High capacity pharmacogenomics platform with access to the EU-OPENSSCREEN 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



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](#)

Fibrates as drugs with senolytic and autophagic activity for osteoarthritis therapy
[➔ EBioMedicine. 2019 Jul;45:588-605](#)

Identification and characterization of Cardiac Glycosides as senolytic compounds
[➔ Nat Commun. . 2019 Oct 21;10\(1\):4731](#)

A New Model of Sensorial Neuron-Like Cells for HTS of Novel Analgesics for Neuropathic Pain
[➔ SLAS Discov. 2019 Feb;24\(2\):158-168](#)

Further info and site-contact

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