

ES

High-capacity screening site

Fundación Centro de Excelencia en Investigación de Medicamentos Innovadores en Andalucía (MEDI)

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At a glance

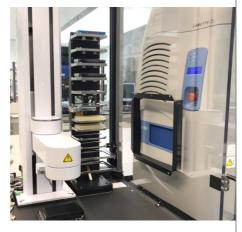
- High capacity screening center with core expertise in natural products drug discovery
- Access to EU-OPENSCREEN European Chemical Biology Library and the European Academic Compound Library
- Access to the MEDINA 200K natural products library
- Automated screening platforms with cutting edge assay technologies
- Biosafety Level 2 containment facilities for cell culturing and antimicrobial assays
- > Chemical analytics and metabolomics
- Natural products chemistry and bioassayguided isolation

Infrastructure and technical focus

- Development, miniaturization and validation of HTS screening assays
- Broad range of assay formats (96/384) and readouts
- Large scale HTS platform for cell based phenotypic and enzymatic assays
- Protein-protein interaction screening technologies
- > High-content imaging screening
- Spheroids-3D cell culturing and anti-tumor screening
- Integrated informatics tools for assay data analysis
- Early ADME/safety platform and bioanalytics









Dr. Olga Genilloud (Scientific Director)

"As EU-OPENSCREEN partner, MEDINA is expanding its network of collaborators interested in accessing our screening platforms. We support early discovery programs from assay design and validation to preclinical evaluation of new hits and lead compounds."

Projects past and present

2020 | NP4NTD Discovery of new antiparasitic drug candidates and innovative modes of actions from Microbial Natural Products → Link

2020 | LISSA Alternatives to the use of disinfectants in the food industry aimed at reducing the survival of Listeria monocytogenes and Salmonella enterica on surfaces ◆ Link

2019 | TRIDs4DEB Driving next generation autophagy researchers towards translation **→** Link

2017 | IIMENA Integration of informatics and Metabolic Engineering for the Discovery of novel antibiotics → Link

Our science in selected publications

Strasseriolides A-D, a family of antiplasmodial macrolides isolated from the fungus Strasseria geniculata CF-247251

• Organic Letters (2020), 22, 6709–6713

A high-throughput screening platform of microbial natural products for the discovery of molecules with antibiofilm properties against Salmonella.

→ Frontiers in Microbiology (2017), 8, 326

Design of high-throughput screening of natural extracts to identify molecules bypassing primary coenzyme Q deficiency in Saccharomyces cerevisiae

→ SLAS Discovery (2020), 25, 299-309

Cacaoidin, first member of the new Lanthidin RiPP family

◆ Angewandte Chemie Int. Ed. (2020), 59, 12654-12658

Further info and site-contact

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