

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

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Dr. Olga Genilloud (Scientific Director)

„As EU-OPENSREEN 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.“

At a glance

- High capacity screening center with core expertise in natural products drug discovery
- Access to EU-OPENSREEN 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 bioassay-guided 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

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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