

The Portuguese Infrastructure for Chemical Biology and Genetics

André F. Maia¹, Rita M. Reis^{1,2} and António Pombinho¹

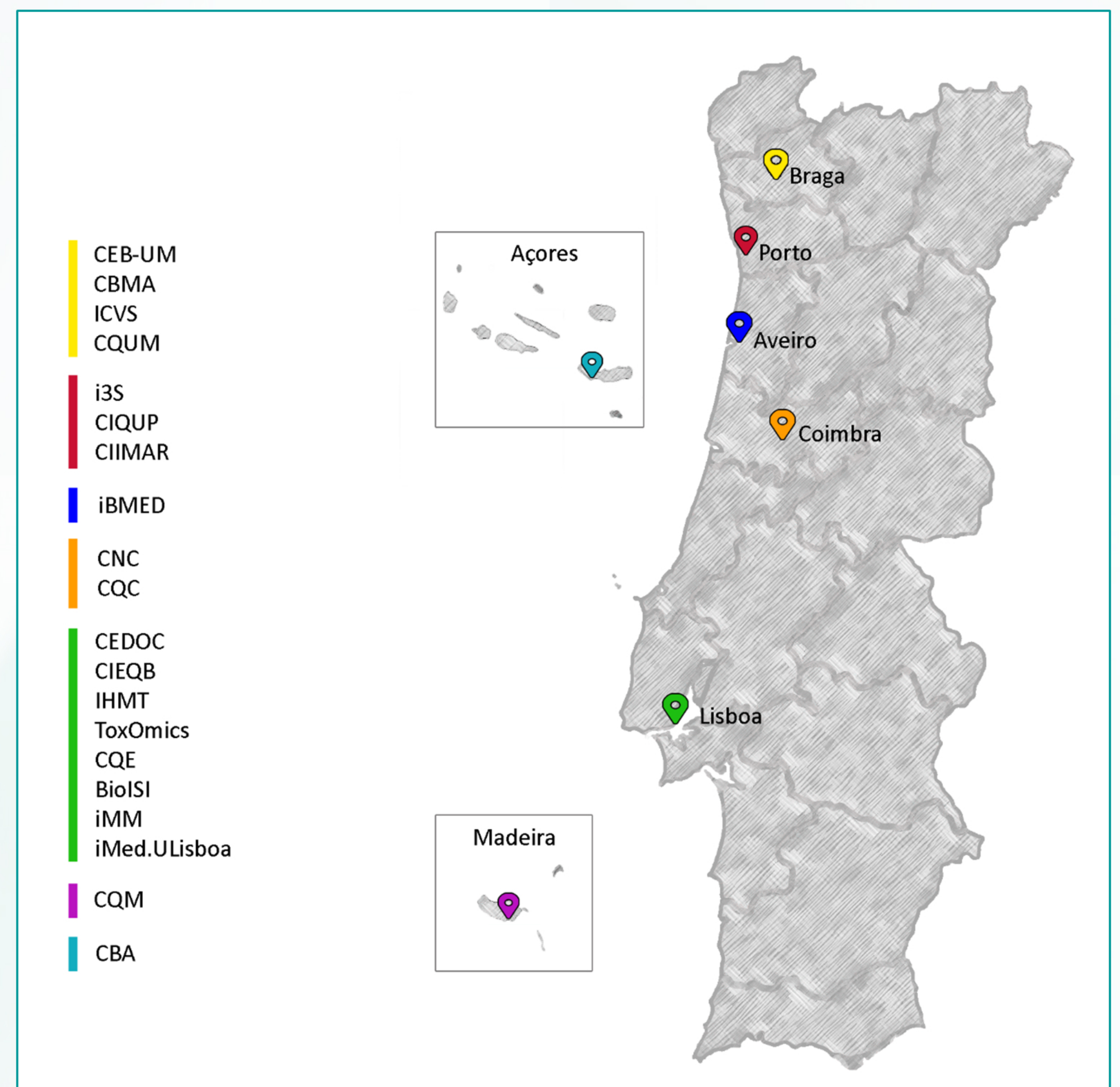
¹ Instituto de Investigação e Inovação em Saúde (i3S), Universidade do Porto, 4200-135 Porto, Portugal
² Instituto de Biologia Molecular e Celular (IBMC), Universidade do Porto, 4200-135 Porto, Portugal

About

PT-OPENSREEN is a nationwide network of chemistry and biology research institutes bridging chemistry-based research areas (organic and medicinal chemistry) and molecular and structural biology. It operates a state-of-the-art infrastructure for basic and applied research in the fields of drug discovery, chemical biology and genetics. Through its partners, it provides Open Access synthesis of chemical tools and probes, cellular and biochemical assays for screening, as well as hit to lead, lead optimization and follow-up studies. A primary goal is to build a library of Portuguese chemical compounds. Additionally, it coordinates the participation of Portugal in the Pan-European infrastructure EU-OPENSREEN, which grants access to the European Chemical Biology Library.

The main mission of PT-OPENSREEN is to identify new molecular probes/tools for discovering new chemical and biological entities with potential therapeutic applications. The technology used is based on sample miniaturization and automation, enabling the rapid and systematic screening of tens of thousands of samples in a diverse range of assays, while also reducing the costs per sample.

Partners



Activities



Biology

From target and drug discovery to pre-clinical studies.



Chemistry

Custom synthesis of chemical libraries for screening and medicinal chemistry.



Consultancy

Identification of suitable experimental approaches and suitable follow-up.



Training

Training courses and workshops all year-round.

eu openscreen Partner Sites



Screening



i3S-LA

Institute of Molecular and Cell Biology- Institute for Research and Innovation in Health, Porto University



CNC-UC

Centre for Neuroscience and Cell Biology, Coimbra University



Medicinal Chemistry



iMed.Ulisboa

Research Institute for Medicines, Lisbon University



CIQUP

Chemistry Research Centre (FCUP), Porto University