



## Filipa Tome

### Scientific Manager

BiolSI - Biosystems & Integrative Sciences Institute



### Bilateral Meetings

- Wednesday (14:00 - 16:30)

#### Description

BiolSI is a new institute created in 2015 with the aim of addressing biological questions using integrative - Systems - approaches, at the forefront of life sciences research, in Portugal and internationally. By gathering scientists from bio-, physics and computational sciences, BiolSI benefits from a unique multidisciplinary environment to foster the creative thinking of researchers and advanced students to solve problems through integrative approaches. BiolSI research and training activities occur in 5 Thematic Lines - Biomedicine, Biotechnology, Biophysics, Bioinformatics and Biological Chemistry.

#### Organization Type

University / R&D Institution

Offer

### Services & Facilities

Biolmaging - confocal, wide field fluorescence, electron microscopy

Highthroughput screening - assay development, plate readers

Physics - SQUID magnetometry, Mössbauerspectroscopy, magneto-optic Kerr, AFM

Other (shared) facilities - spectroscopy (FTIR, MS, X-ray, NMR, greenhouses)

New in 2018 - Genomics, Proteomics

Offer & Request

### Research Collaborations

#### PHARMA

High-throughput screens (small molecules, siRNA)

Assay development

Mechanism of action / drugs

Rare diseases (cystic fibrosis, neurodegenerative)

Resistance microbes

#### BIOTECH

Smart farms

Grapevine & wine making (yeasts)

Crop improvement through Omics approaches

Field biosensors

#### **INSTRUMENTATION DEVELOPMENT**

New microscopy instruments (AFM-based)

Correlative microscopy development (AFM-based)

Optical biosensors

#### **SOFTWARE / COMPUTATIONAL DEVELOPMENT**

Digital Biology

New pipelines for disease biomarkers (genetic, environmental)

Cheminformatics

Molecular dynamics

Keywords: Biomedicine Genomics Proteomics Pharma Biotech Assay development highthroughput screening cystic fibrosis neurodegenerative disorders