



# Filipa Tome

SCIENTIFIC MANAGER

BioISI - Biosystems & Integrative Sciences Institute



## BILATERAL MEETINGS

Wednesday (14:00 - 16:30)

**DESCRIPTION** BioISI 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, BioISI benefits from a unique multidisciplinary environment to foster the creative thinking of researchers and advanced students to solve problems through integrative approaches. BioISI 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

BioImaging – 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

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