

3-4 December 2024. Barcelona, Spain

EPIC Technology Meeting on Photonics Technologies for Medical Diagnosis and Treatments— Welcome words by ICFO





ICFO at a glance

- Founded in 2002
- 450 People
- 25 Research Teams
- **18000 m²**
- 80 Research labs
- Research, Grad Education, KTT
 - 25000+ citations/year
 - 300+ PhD Thesis
 - 50+ Industrial projects
 - 47 ERC Grants
 - 11 spin-off companies







Applications: Focus Programs















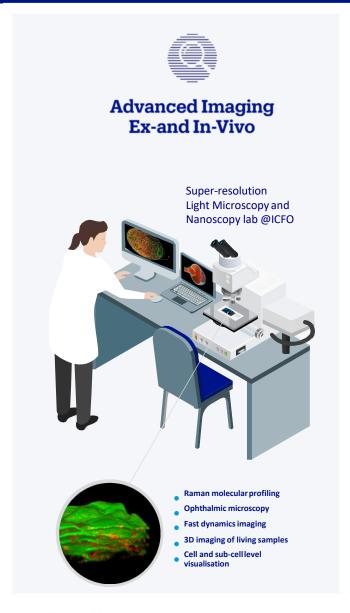


Dr. Ariadna Martínez KTT Portfolio Manager (Health) and Light for Health Program Coordinator



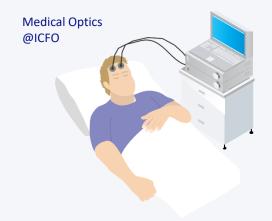
Dr. Miguel Ángel
Moreno
KTT Project Manager
(Health)
and ICFO-SJD Joint Lab
Coordinator

ICFO Medical Technologies





Diffuse optics for non-invasive deep tissue monitoring & imaging



What does it measure?







oxigenation











Other Technologies

Other biomedical and healthrelated technological capabilities for DIAGNOSTICS, THERAPY, MONITORING and PROGNOSIS:

Optogenetic tools

High-throughput, versatile phase imaging tools for drug discovery

Ultra-precise and portable atomic sensors for magnetic resonance diagnostics.







Photonics for better healthcare

Photonics plays an increasing role in a variety of medical techniques and practices, including non-invasive diagnosis, advanced imaging and therapies.

The mission of the Barcelona Medical Photonics (BMP)
Network is to promote the research and development activities in photonics being carried out in the Barcelona region through long-standing collaborations between ICFO and its biomedical and clinical partners.

https://barcelonamedicalphotonics.icfo.eu/

Funding

















Network Partners

Photonics and Medicine come together to create new clinical technologies



































Featured projects





Diagnose and monitor paediatric diseases







Understanding the aging brain



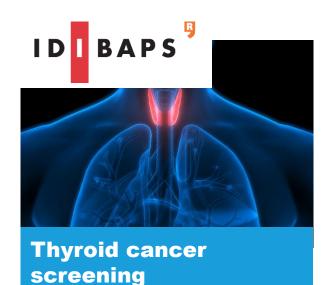




Ischemic Stroke management



Theranostics for traumatic brain injury







Advanced Ophthalmic imaging







Optimizing intensive care procedures with optical monitoring

FLIGHT

Fostering research careers in **PHOTONICS**



CLINICAL TRACK

(7 PhD fellowships)









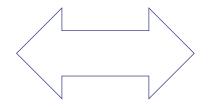




Shared PhD students between ICFO and BMPN partners

- ✓ Multidisciplinarity
- √ Translational medicine
- √ High impact on society
- ✓ New applications and knowledge
- ✓ Innovation
- √ New challenges and synergies







With the support of:



Grant Agreement
Marie Skłodowska-Curie
num. 10108144



Overview of the current Joint Lab projects





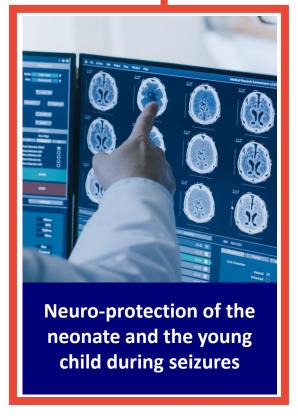
Joint Lab ICFO-Sant Joan de Déu

jointlab-sjd.icfo.eu

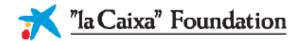














Perspectives on Photonics in Neurology and Neurocritical Care

7 April, 2022 9-15h CET • @ CosmoCaixa: C. d'Isaac Newton, 26 • 08022 Barcelona

Web: https://barcelonamedicalphotonics.icfo.eu/









Microcirculation in health and disease

Annual Meeting Friday 28 April, 2023 9h-16h CET

Q Auditori Hospital Universitari Parc Taulí

Parc Taulí, 1, 08208 Sabadell, Barcelona

Keynote speaker: Prof. Dr. Daniel De Backer

Program:









Co-organized by:











Photonics for Pediatrics

BMPN Annual Meeting
Wednesday 17th April, 2024
Event from 9.30h to 13.30h CET + networking lunch

Auditori Plaza, Hospital Sant Joan de Déu

Carrer Santa Rosa, 39-57, L'Hospitalet de Llobregat (Barcelona)

BARCELONA MEDICAL PHOTONICS NETWORK

An ICFO Light for Health Initiative

Registration will open soon:

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