



## **PROGRAM**

# Photonics for Pediatrics

## **BMPN Annual Meeting**

Wednesday 17 April, 2024 From 9.30h to 15h CET + networking lunch

### Auditori Plaza, Hospital Sant Joan de Déu

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

### Register HERE



#### **Funding**

















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#### Network members



































## Meet our 2024

## Speakers



Joan Comella Carnicé



Carme Fons Estupiña



Chiara Santolin



Mariona Suñol Capella



Morgan Mitchell



Marta Camprubi Camprubi



Joan Sánchez de Toledo



Cecilia Jiménez Mallebrera



Maria Antonia Poca Pastor



Turgut Durduran



Fabrice Wallois



Pablo Loza



Michael Krieg



Ariadna Martínez Marrades

#### Funding





Fundació Privada
MIR-PUIG











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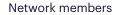














































Welcome		
9:30	Welcome words from the host	<b>Dr. Joan Comella</b> , PhD, Director of Research, Innovation and Learning at SJD Barcelona Children's Hospital and Director of IRSJD
9:40	Event introduction	<b>Dr. Ariadna Martínez</b> , PhD, Light for Health Program Coordinator at ICFO.
Advanced Imaging for Pediatrics		
9:45	Advanced microscopy techniques for biomedical and clinical applications	<b>Dr. Pablo Loza</b> , PhD, Head of the SLN Facility (Super-resolution Light Microsopy & Nanoscopy Facility) at ICFO
10:00	Retinoblastoma patient stratification for personalized and effective treatments	<b>Dr. Mariona Suñol</b> , MD, Pediatric pathologist at SJD Barcelona Children's Hospital
10:15	Accelerate therapy development for neuromuscular diseases	<b>Dr. Cecilia Jiménez-Mallebrera</b> , PhD, Group Leader of the Applied Research in Neuromuscular Diseases group at IRSJD
10:30	Neurophotonics and Mechanical Systems Biology	<b>Prof. Michael Krieg</b> , PhD, Group Leader of the Neurophotonics and Mechanical Systems Biology research group at ICFO
10:45	The MAGIC project: EEG MEG OPM recordings in premature neonates	<b>Prof. Fabrice Wallois</b> , PhD, GRAMFC Lab Director, INSERM U1105, Univerity of Picardy; Head of the Dept of Pediatric Clinical Neurophysiology, Amiens-Picardie University Hospital
11:00	Optically pumped magnetometers for biomagnetic applications	<b>Prof. Morgan Mitchell</b> , PhD, Group Leader of the Atomic Quantum Optics research group at ICFO
11:05	Coffee break and exhibition area	
Non-invasive hemodynamic monitoring for Pediatrics		
11:50	Optical tools for non-invasive monitoring and imaging in Pediatrics	<b>Prof. Turgut Durduran</b> , PhD, Group Leader of the Medical Optics research group at ICFO
12:05	Needs around intracranial pressure monitoring in pediatric patients	<b>Dr. Maria Antònia Poca</b> , MD, PhD, Clinical Head of Neurosurgery and responsible for the Pediatric Neurosurgery Unit at Vall Hebron University Hospital; Ass. Prof. of the UAB and coordinator of the Neurotraumatology and Neurosurgery Research Unit (UNINN) of the Vall Hebron Research Institute
12:25	Neuromonitoring the brain in a neonatal animal model of cardiocirculatory arrest: exploring the limits	<b>Dr. Joan Sanchez-de-Toledo</b> MD, PhD, Department Chair of Pediatric Cardiology at SJD Barcelona Children's Hospital and researcher at IRSJD
12:45	Neuromonitoring the Brain in Infants with Congenital Heart Disease. A new tool for neuroprotection?	<b>Dr. Marta Camprubí Camprubí</b> , MD, PhD, Consultant neonatologist at SJD Barcelona Children's Hospital and researcher at IRSJD
13:05	Neuro-protection of the neonate and the young child during seizures	<b>Dr. Carme Fons</b> , MD, PhD, Head of Neurology Service at SJD Barcelona Children's Hospital and researcher at IRSJD
13:15	Gates to Language: optical imaging to study the ontogeny of language learning	<b>Dr. Chiara Santolin</b> , PhD, IRSJD & UPF Center for Brain and Cognition.
13:30	Networking lunch	
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