



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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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**

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Welcome		
9:30	Welcome words from the host	Dr. Joan Comella , PhD, Director of Research, Innovation and Learning at SJD Barcelona Children's Hospital and Director of IRSJD
9:40	Event introduction	Dr. Ariadna Martínez , PhD, Light for Health Program Coordinator at ICFO.
Advanced Imaging for Pediatrics		
9:45	Advanced microscopy techniques for biomedical and clinical applications	Dr. Pablo Loza , PhD, Head of the SLN Facility (Super-resolution Light Microscopy & Nanoscopy Facility) at ICFO
10:00	Retinoblastoma patient stratification for personalized and effective treatments	Dr. Mariona Suñol , MD, Pediatric pathologist at SJD Barcelona Children's Hospital
10:15	Accelerate therapy development for neuromuscular diseases	Dr. Cecilia Jiménez-Mallebrera , PhD, Group Leader of the Applied Research in Neuromuscular Diseases group at IRSJD
10:30	Neurophotonics and Mechanical Systems Biology	Prof. Michael Krieg , 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	Prof. Fabrice Wallois , PhD, GRAMFC Lab Director, INSERM U1105, University of Picardy; Head of the Dept of Pediatric Clinical Neurophysiology, Amiens-Picardie University Hospital
11:00	Optically pumped magnetometers for biomagnetic applications	Prof. Morgan Mitchell , 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	Prof. Turgut Durduran , PhD, Group Leader of the Medical Optics research group at ICFO
12:05	Needs around intracranial pressure monitoring in pediatric patients	Dr. Maria Antònia Poca , 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	Dr. Joan Sanchez-de-Toledo 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?	Dr. Marta Camprubí Camprubí , 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	Dr. Carme Fons , 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	Dr. Chiara Santolin , PhD, IRSJD & UPF Center for Brain and Cognition.
13:30	Networking lunch	