



BABYLUX



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Patronage:



“Light-to-Cure”: Steps from Photonics to Improved Care of Neonates Born Preterm

28th April 2017

Politecnico di Milano

Aula Magna

Piazza Leonardo da Vinci 32, Milan

According to the Global Action Report published by The World Health Organization in 2012, preterm births are 15 million every year and rising. BabyLux - An Optical Neuro-Monitor of Cerebral Oxygen Metabolism and Blood Flow for Neonatology - provides an innovative tool to monitor and assess brain blood flow and oxygenation in extremely preterm neonates.

A precise, non-invasive integrated system is the key to enable neonatologists **to prevent neurological damages due to lack of oxygenation in the brain, frequently accompanying premature births.**

BabyLux takes up complete R&D works and extends already tested prototypes to the level of demonstrator, bridging the gap between research products and commercialization. For the first time ever, the system uses photonic technologies, such as diffuse correlation spectroscopy, DCS, and time resolved near-infrared spectroscopy (TRS), in an innovative combination.

For more information, please visit the website www.babylux-project.eu

Ordine degli Ingegneri di Milano will award **3 credits (CFP)** to the participants.

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Contacts

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9.00 | Welcome Address

Gianantonio Magnani

President, Fondazione Politecnico di Milano

Tanya Nikolova

Photonics Unit, European Commission

9.15 | BabyLux

Goals and achievements

Alessandro Torricelli

Department of Physics, Politecnico di Milano

Critical evaluation of clinical results

Gorm Greisen

Department of Neonatology, Rigshospitalet, Copenhagen

10.30 | Coffee Break

10.50 | Round table

BabyLux project and then? Priorities in technical development, standardization and clinical studies

Turgut Durduran, ICFO, Institute of Photonic Sciences, Castelldefels, Barcelona

Adelina Pellicer, Hospital Universitario La Paz, Madrid

Heidrun Wabnitz, PTB (Physikalisch-Technische Bundesanstalt Braunschweig), Berlin

Martin Wolf, University Hospital Zurich

Discussion moderated by **Gorm Greisen**

Department of Neonatology, Rigshospitalet, Copenhagen

11.50 | The point of view of the market: ready for BabyLux?

Udo Weigel, HemoPhotonics SL

Margherita Milite, Siemens Healthineers

12.30 | Q&A

