



PARENT

NEURODEVELOPMENT AFTER PRETERM BIRTH: DIAGNOSIS, ETHICS AND SOCIAL IMPACT

1st Training Event MSCA-International Training Network Project (956394)
PARENT: PremAtuRe nEwborn motor and cogNitive impairmEnts: Early
diagnosis. October 14-16th, 2021



Program

October 14-16th, 2021

October 14 th	Clinical aspects of preterm birth
8:45-9:30	<p>Openings:</p> <ul style="list-style-type: none"> • Marco Deriu Project PARENT coordinator • Manuel Rosety Rodríguez. Dean of Cadiz University School of Medicine. • Sebastián Quintero Otero. Puerta del Mar and San Carlos Hospitals Managing Director. . • María Jesús Mosquera Díaz. Vice Rector for Science and Technology Policy. University of Cádiz. President of INIBICA
9:30-10:00	The PARENT project: an overview. Marco Deriu , PARENT Coordinator.
09:50-10:30	Brain injury in the preterm infant. (Isabel Benavente-Fernández; Hospital Puerta del Mar, Cádiz, Spain)
10:30-11:00	<i>Coffee break</i>
11:00-11:45	Brain development and brain injury in newborns with congenital heart disease (Gianluigi Perri; Ospedale Pediatrico Bambino Gesù, Rome, Italy)
11:45-12:30	Cerebral palsy in preterm and term born children (Els Ortibus; UZ Leuven; Belgium)
12:30-13:15	9 PhD presentations (5 min each)
13:15-15:00	<i>Lunch break</i>
15:00-15:30	6 PhD presentations (5 min each)
15:30-16:00	The important role of Neonatal Neurology Alfredo García-Alix. Nene Foundation President
16:00-17:10	Invited speaker: Steven Miller (Hospital Sickkids, Toronto, Canada): Neuroimaging and neurodevelopmental outcome
17:15-18:30 PARENT executive board	
Research Council Board	

October 15 th	Techniques used in PARENT
9:15-9:30	Welcome (Marco Deriu, Lionel C. Gontard)
9:30-10.15	Invited speaker: (Leonardo Franco. Full Professor Dept. of Languages and Computer Science. University of Málaga: Applications of AI to Biomedicine)
10:15-10.30	Lionel C Gontard (UCA, Spain): Neonatal brain monitoring using Ultrasound imaging and Computer Vision.
10:30-10:45	Thibo Billiet (<i>Icometrix, Belgium</i>): Crash course in diffusion MRI: from acquisition to interpretation
10:45- 11:00	Alexander Sadikov (<i>NEUS Diagnostics, Slovenia</i>): <i>Computerized neuropsychological test battery based on eye-tracking.</i>
11:10-11:30	<i>Coffee break + poster session (state-of-art; Project planning)</i>
11:30-11:45	Daniel Urda (<i>UBU, Spain</i>): <i>Machine Learning to identify significant biomarkers for early diagnose of NDD in premature infants.</i>
11:45-12:00	Umberto Michelucci (<i>TOELT LLC, Switzerland</i>): <i>Artificial Intelligence framework to model the ncRNAs biochemical pathway and predict the target interactions.</i>
12:00-12:15	Ángel Ruiz Zafra (<i>UCA, Spain</i>): <i>Monitoring and Integrating Neonates Behavioral and Physiological Parameters.</i>
12:15-12:30	Andrea Buccoliero (<i>GPI, Italy</i>): <i>In silico predictor of neurodevelopmental trajectory starting from early diagnosis clinical data.</i>
12:30-12:45	Giacomo di Benedetto (<i>7HC, Italy</i>): <i>Software implementation to predict Neuro developmental trajectories from clinical data.</i>
12.45: 13:00	Marco Deriu (<i>POLITECNICO DI TORINO, Italy</i>): <i>Modelling ncRNA biochemical pathways and to predict target interactions.</i>
13:00-15:00	<i>Lunch break</i>
15:00-15:45	Invited Speaker: Jessie Guo (<i>Sickkids, Toronto, Canada</i>): <i>MRI in the preterm: volumetric segmentation atlas & pipelines.</i>
16:00-19:00 Working groups meetings (1h each)	



October 16 th	
9:00-10:00	Transparent reporting of a multivariable prediction model for individual prognosis or diagnosis (TRIPOD): The TRIPOD statement Speaker from Equator Network (TBA)
10:00-10:30	The alignment between PARENT's objectives and Sustainable Development Objectives. Arantza Acha Director UNESCO Etxea, the UNESCO Centre of the Basque Country, Spain
10:30-11:00	Maximising impact of multidisciplinary research in early diagnosis of neonatal brain injury. Dr John O' TOOLE, Management Committee, CA20124. [EU Cost Action Interacting with PARENT]
11:00-11:30	<i>Coffee break</i>
11:30-12:30	Family oriented research. What is important for the parents? Nene Foundation (Simón Lubián López)
12:30-13:30	Real stories: sharing experiences on premature birth, NICU admission and discharge, parenting and outcome (Nene Foundation)