



# PARENT

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## NEURODEVELOPMENT AFTER PRETERM BIRTH: DIAGNOSIS, ETHICS AND SOCIAL IMPACT

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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 <sup>th</sup>	Clinical aspects of preterm birth
8:45-9:30	<p>Openings:</p> <ul style="list-style-type: none"> <li>• <b>Marco Deriu</b> Project PARENT coordinator</li> <li>• <b>Manuel Rosety Rodríguez</b>. Dean of Cadiz University School of Medicine.</li> <li>• <b>Sebastián Quintero Otero</b>. Puerta del Mar and San Carlos Hospitals Managing Director. .</li> <li>• <b>María Jesús Mosquera Díaz</b>. Vice Rector for Science and Technology Policy. University of Cádiz. President of INIBICA</li> </ul>
9:30-10:00	The PARENT project: an overview. <b>Marco Deriu</b> , 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> ): Computerized neuropsychological test battery based on eye-tracking.
11:10-11:30	Coffee break + poster session (state-of-art; Project planning)
11:30-11:45	Daniel Urda ( <i>UBU, Spain</i> ): Machine Learning to identify significant biomarkers for early diagnose of NDD in premature infants.
11:45-12:00	Umberto Michelucci ( <i>TOELT LLC, Switzerland</i> ): Artificial Intelligence framework to model the ncRNAs biochemical pathway and predict the target interactions.
12:00-12:15	Ángel Ruiz Zafra ( <i>UCA, Spain</i> ): Monitoring and Integrating Neonates Behavioral and Physiological Parameters.
12:15-12:30	Andrea Buccoliero ( <i>GPI, Italy</i> ): In silico predictor of neurodevelopmental trajectory starting from early diagnosis clinical data.
12:30-12:45	Giacomo di Benedetto ( <i>7HC, Italy</i> ): Software implementation to predict Neuro developmental trajectories from clinical data.
12.45: 13:00	Marco Deriu ( <i>POLITECNICO DI TORINO, Italy</i> ): Modelling ncRNA biochemical pathways and to predict target interactions.
13:00-15:00	Lunch break
15:00-15:45	Invited Speaker: Jessie Guo ( <i>Sickkids, Toronto, Canada</i> ): MRI in the preterm: volumetric segmentation atlas & pipelines.
16:00-19:00 Working groups meetings (1h each)	



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