

## 19th INMA-Infancia y Medio Ambiente (Environment and Childhood project) Scientific Conferences 2024

### Preliminary Scientific Program

Face to face (+Streaming) in Barcelona

Day	Time	Session Type Room	Activity
11/6/2024	10h-11h	<u>Room</u> : Ramón y Cajal	Registry
	11h-11:10h	Plenary Session <u>Room</u> : Ramón y Cajal	Welcome
	11:10h-12h	Plenary Session <u>Room</u> : Ramón y Cajal	Opening Keynote: <b>Population-based longitudinal curves of lung function over the full life course. Empirical estimation of lung growth and decline, breakpoints and plateaus.</b> Judith Garcia-Aymerich
	12h-13:50h	Results Session <u>Room</u> : Ramón y Cajal	<p>Topic: <b>Urban environment &amp; neuropsychological function, stress, and lung function</b></p> <ul style="list-style-type: none"> <li>- Residential greenness and working memory during childhood. A LifeCycle study. <b>Mikel Subiza-Pérez</b></li> <li>- Exploring the pathways linking prenatal and early childhood greenness exposure to attention deficit/hyperactivity disorder symptoms during childhood: Evidence from the INMA prospective birth cohort. <b>Leire Luque-García</b></li> <li>- Ambient Temperature Exposure and Self- and Parent-Reported Internalizing, Externalizing, and Attention Problems in Preadolescents. <b>Esmée Essers</b></li> <li>- Ambient Temperature Exposure and Sleep in Three European Birth Cohorts. <b>Esmée Essers</b></li> <li>- NO2 Exposure, Attentional Function and Working Memory: Periods of Susceptibility from Pregnancy to Childhood. <b>Anne-Claire Binter</b></li> <li>- Exposure to Air Pollution and the Development of Functional Brain Connectivity from Late Childhood into Adolescence. <b>Michelle S. W. Kusters</b></li> <li>- Environmental noise exposure effect on cortisol levels in children from seven European birth cohorts: preliminary results. <b>Ane Arregi</b></li> <li>- Exposure to Air Pollution, Road Traffic Noise and Allostatic Load Score in Children. <b>Michelle S. W. Kusters</b></li> <li>- Single and Multiple Exposure to Outdoor Air Pollution on Lung Function in School-Aged Children. <b>Alan Domínguez</b></li> </ul> <p>Questions</p>
	13:50h-15:30h	Lunch	

Day	Time	Session Type Room	Activity
	15:30h-17h	Results Session <u>Room:</u> Ramón y Cajal	<p><b>Topic: Other exposures &amp; neuropsychological function</b></p> <ul style="list-style-type: none"> <li>- Prenatal exposure to mixtures of chemicals and cognitive and fine motor abilities in offspring. <b>Pavla Brennan Kearns</b></li> <li>- Influence of prenatal neurotoxic metals, breastfeeding and quality of family context on socio-emotional development in early childhood. <b>Patricia Macia Guerrero</b></li> <li>- Presence of pets at 1 and 4-5 years of age and child's mental health at 7-8 years of age. <b>Llúcia González Safont</b></li> <li>- Integrated Insights into Neurodevelopmental Effects of Trimethylamine N-Oxide (TMAO) and Trimethylamine (TMA): A Multi-Cohort Study Combining Epidemiology and Toxicology. <b>Léa Maitre</b></li> </ul> <p><b>Topic: Exposures</b></p> <ul style="list-style-type: none"> <li>- Characterization of human exposure to tire rubber additives and their transformation products. Insights from TRANSIT and CIRCULATE projects. <b>Mercè Gari</b></li> <li>- Trends of PFAS exposure levels in during childhood and associated factors. <b>Amaia Irizar</b></li> <li>- Anemia enhancement of cobalt exposure in children and pregnant women. <b>Joan O. Grimalt</b></li> </ul> <p>Questions</p>
	17h-17:15h	Break	
	17:15-18:25h	Coffee Break + Posters Session <u>Room:</u> Ramón y Cajal	<ul style="list-style-type: none"> <li>- Effects of prenatal metal exposure on working memory during childhood and adolescence. <b>Simona Porru</b></li> <li>- The role of neighbourhood characteristics and social support in mental health outcomes in adolescents from different socioeconomic backgrounds in Spain. <b>Blanca Piera Pi-Sunyer</b></li> <li>- Ultra-processed food consumption and obesity in children aged 4 to 7 years old. <b>Sandra González-Palacios</b></li> <li>- Childhood exposure to non-persistent pesticides and age at menarche in Spanish girls. <b>Carmen Freire/Francesca Castiello</b></li> <li>- Prenatal endocrine disrupter exposure and its impact on menarche and menstrual characteristics: INMA-Valencia Cohort. <b>Oihane Alvarez</b></li> <li>- Exposure to endocrine disruptors and other environmental chemicals and breast development in girls: A systematic review of human studies. <b>Alicia Olivas-Martinez</b></li> <li>- Factors associated to the Mediterranean diet in pregnant women and children at 4, 7 and 9 years old. <b>Sandra González-Palacios</b></li> <li>- Pro-vegetarian dietary patterns and essential and heavy metal exposure in children of 4-5-years from the INInfancia y medio Ambiente cohort (INMA). <b>Alejandro Oncina Cánovas</b></li> <li>- Development and validation of a pipeline to derive physical activity descriptors from the acceleration data of smartphones. <b>Maria Llopis</b></li> <li>- Sociodemographic, lifestyle, and environmental determinants of vitamin D levels in pregnant women in Spain. <b>Paula Sol Ventura</b></li> <li>- Risk and protective factors in BDNF levels. <b>Nerea Lertxundi</b></li> <li>- Serum concentrations of organochlorine compounds in 8 year-old children from INMA-Astúrias birth cohort. <b>Carolina M. Bustamante</b></li> <li>- Analytical developments for the study of organophosphate pesticides, pyrethroid, fungicides and neonicotinoids in urine. <b>Natalia Bravo</b></li> <li>- Urinary concentrations of pesticides in pregnant women and children. <b>Paula Ruiz</b></li> </ul>
	18:25h-19:25h	Plenary Session <u>Room:</u> Ramón y Cajal	Panel discussion
	19:25h	End of the 1 <sup>st</sup> . day	
	20:30h	Dinner? (not funded by organization)	

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Day	Time	Session Type Room	Activity
12/6/2024	9:30h-11h	Results Session Room: Ramón y Cajal	<p><b>Topic: Omics</b></p> <ul style="list-style-type: none"> <li>- Gestational age and genome-wide placental DNA methylation: a PACE meta-analysis. <b>Sofía Aguilar-Lacasaña &amp; Alexandra Binder</b></li> <li>- Methylation quantitative trait loci mapping in more than 2,500 placentas provides insight into human complex disease. <b>Ariadna Cilleros-Portet</b></li> <li>- A meta-analysis of epigenome-wide association study of ultra-processed food consumption with DNA methylation in European children. <b>Joana Llauradó-Pont / Camille Lassale</b></li> <li>- Evaluating the association between DNA methylation in the placenta and emotional and behavioral problems in the offspring. <b>Marta Cosin Tomas</b></li> <li>- Prenatal and perinatal determinants of gut microbiota's diversity and composition in adolescence. <b>Raul Beneyto</b></li> <li>- Associations between infant gut microbiota composition and biological activity, and its early life determinants. <b>Pol Jimenez-Arenas</b></li> <li>- Gut microbiome in 15 year olds: taxa abundance and alpha diversity from 16S sequencing data and shotgun sequencing data and its relationship with mercury (preliminary results). <b>Jorge Vallejo-Ortega</b></li> </ul> <p>Questions</p>
	11h-11:30h	Coffee Break	
	11:30h-13h	Results Session Room: Ramón y Cajal	<p><b>Topic: Obesity, cardiovascular, puberty, thyroid function, and infections</b></p> <ul style="list-style-type: none"> <li>- Deficits in gestational weight gain and increases of internal dose of organohalogen compounds in children. <b>Joan O. Grimalt</b></li> <li>- Determinants of childhood excess weight. INMA Gipuzkoa Cohort Analysis. <b>Alicia Diego Jiménez</b></li> <li>- Association between exposure to mercury and cardiometabolic risks development in adolescence. <b>Raquel Soler-Blasco</b></li> <li>- Association between prenatal PFAS exposure and pubertal development in the INMA project. <b>Sara López de Calle</b></li> <li>- Prenatal exposure to organochlorine chemicals and pubertal development in the INMA cohort. <b>German Cano-Sancho</b></li> <li>- Prenatal exposure to arsenic and thyroid function. <b>Sabrina Llop</b></li> <li>- Vitamin D status and impairment of immune response to specific infections during pregnancy in three European birth cohorts. <b>Paula Labrés Pizà</b></li> </ul> <p>Questions</p>
	13h-14h	Plenary Session Room: Ramón y Cajal	Closing keynote: <b>Mental health and neuroimaging on a longitudinal basis.</b> Henning Tiemeier
	14h-15h	Lunch	
	15h	End of the 2 <sup>nd</sup> . day	

### Organizers



### Collaborators

