

**18th INMA-Infancia y Medio Ambiente (Environment and Childhood project) Scientific Conferences 2023**

**Title: "The INMA life course approach: from conception to adulthood"**

**Scientific Program**

Face to face (+Streaming) in Barcelona:

Day	Time	Session Type Room Link	Activity
07/02/2023	9:00h – 9:30h	Room: (Pending)	<b>Registry</b>
	9:30h – 9:45h	Plenary Session Room: Marie Curie <u>Link</u> : (Pending)	<b>Welcome.</b> Martine Vrijheid and Mònica Guxens
	9:45h – 10:45h	Plenary Session Room: Marie Curie <u>Link</u> : (Pending)	<b>Neurodevelopmental Disorders, Academic Performance and Behavioural Problems in Childhood and Adolescence.</b> Speaker: Miquel Casas, MD, PhD. Professor of Psychiatry. Director of "SJD MIND Schools" Program. Hospital de Sant Joan de Déu. Barcelona. <u>Moderator</u> : (Pending)
	10:45h – 11:15h	Coffee Break Room: (Pending)	
	11:15h – 13:00h	Session 1 Results Room: Marie Curie <u>Link</u> : (Pending)	<b>Results of the INMA Project: Neurodevelopment and mental health</b> <u>Moderator</u> : Nerea Lertxundi <ol style="list-style-type: none"> <li>1. Going beyond the neurodata in the INMA-project: analysing the positive predictive value (PPV) of the questionnaires used in the INMA protocol to detect ADHD. Speaker: Ainara Andiaarena</li> <li>2. Urban environment and child mental health: findings from the ATHLETE project. Speaker: Tim Cadman</li> <li>3. Prenatal exposure to cadmium and children's neuropsychological development. Speaker: Sabrina Llop</li> <li>4. Association between telomere length and symptoms of attention deficit and hyperactivity disorder (ADHD) in European children at 7-9 years. Speaker: Irene Campos</li> <li>5. Maternal nut and fish consumption during pregnancy and child impulsivity, risky decision-making, and aggressive and rule-breaking behaviors up to 11 years old. Speaker: Marina Ruiz</li> <li>6. Comparison of diverse indicators of social inequality in cognitive development in Gipuzkoa and Valencia. Speaker: Lúcia González Safont</li> <li>7. Gut microbiota and mental health in Valencian teenagers: Preliminary results. Speaker: Raúl Beneyto</li> </ol>

			<p>General discussion</p> <p><b>INMA Parents: presentation of possible lines of research.</b>          Speaker: Juana Mari Delgado          Moderator: Nerea Lertxundi</p>
	13:00h – 14:30h	Lunch Room: (Pending)	
	14:30h – 16:00h	Session 2 Results Room: Marie Curie <u>Link:</u> (Pending)	<p><b>Formative pill: The statistical challenges of working with multiple correlated exposures.</b>          Speaker: Xavier Basagaña (ISGlobal)          Moderator: Anne-Claire Binter</p> <p><b>Results of the INMA Project: Advanced statistical methods</b>          Moderator: Anne-Claire Binter</p> <ol style="list-style-type: none"> <li>1. Association of prenatal exposure to mixture of chemicals with cognitive abilities in childhood. Speaker: Pavla Cermakova</li> <li>2. Interactions between persistent organic pollutants and nutritional biomarkers on birth weight. Speaker: German Cano</li> <li>3. Longitudinal Hg exposure and body mass index throughout childhood: Bayesian nonparametric and linear longitudinal modelling approaches. Speaker: Gabriel Riutort-Mayol</li> <li>4. Prenatal exposure to chemical mixtures and cardiometabolic risk in European children. Speaker: Nuria Güil</li> </ol> <p>General discussion</p>
	16:00h – 16:30h	Coffee Break Room: (Pending)	
	16:30h – 17:45h	Session 3 Results Room: Marie Curie <u>Link:</u> (Pending)	<p><b>Results of the INMA Project: Genetics and biomarkers of effect</b>          Moderator: Carmen Freire</p> <ol style="list-style-type: none"> <li>1. Potentially causal associations between placental DNA methylation and schizophrenia and other mood and psychiatric disorders. Speaker: Nora Fernandez</li> <li>2. Whole-genome assessment of runs of homozygosity in children from 6 European populations: Demographic insights and health effects. Speaker: Laura Balagué</li> <li>3. EWAS of green spaces and blood DNA methylation. Speaker: Sofia Aguilar</li> <li>4. Influence of genetics on arsenic metabolism and neurotoxicity in INMA Valencia and Gipuzkoa. Speaker: Raquel Soler-Blasco</li> <li>5. Folic acid during pregnancy and its role in telomere length at age four. Speaker: Daniel Prieto</li> </ol> <p>General discussion</p>
	17:45h	End of the 1 <sup>st</sup> . day	
	18:00h – 19:30h	Social activity Room: (Pending)	
	20:30h	Dinner (not funded by organization)	<p><b>PATO PEKIN</b>          奥运村北京烤鸭店</p> <p>Menu: 22€ + drinks          C/ Marina, 16, 08005 Barcelona          Tel. (+34) 932 25 41 11 - Tel. (+34) 609343986  <a href="https://www.patopekin.com/es/">https://www.patopekin.com/es/</a></p>

Face to face (+Streaming) in Barcelona:

Day	Time	Session Type	Activity
08/02/2023	9:30h –10:30h	Plenary Session Room: Marie Curie <u>Link</u> : (Pending)	<b>The Avon Longitudinal Study of Parents and Children (ALSPAC): Three decades of follow-up.</b> Speaker: Kate Northstone, ALSPAC Executive Director Data <u>Moderator</u> : (Pending)
	10:30h –11:00h	Coffee Break Room: (Pending)	
	11:00h –12:00h	Posters session <b>3 SESSIONS IN PARALLEL</b>  <b>Session 1</b> Room: Marie Curie <u>Link</u> : (Pending)	<b>Session 1: Chemicals</b> <u>Moderator</u> : Sabrina Llop <ol style="list-style-type: none"> <li>1. PFAS levels and exposure determinants in pregnant women: Results from European cohorts. Speaker: Lucia Fáblová</li> <li>2. Are prenatal exposures to bisphenols associated with enamel hypomineralization? A prospective cohort study. Speaker: Ester Cots</li> <li>3. Data Analysis Pipeline for Children's Exposure to Pesticides using an Interactive Web Application. Speaker: Mercè Garí</li> <li>4. Wild fish and seafood species in the western Mediterranean Sea with low safe mercury concentrations. Speaker: Joan O. Grimalt</li> <li>5. Exposure to metal mixtures on neurodevelopmental outcomes in 4–5-year-old children living in Spain. Speaker: Antonio J. Signes-Pastor</li> <li>6. Association between Mediterranean diet and metal exposure in 4–5-year-old children living in Spain. Speaker: Leyre Notario Barandiaran</li> <li>7. Exposure to perfluoroalkyl substances (PFAS) and association with thyroid hormones in adolescent males. Speaker: Carmen Freire</li> <li>8. Environmental and dietary determinants of metal exposure in four-year-old children from a cohort located in an industrial area (Asturias, Northern Spain). Speaker: Joan Grimalt</li> <li>9. Pilot study on the composition of house dust: Abundant presence of plastic components and endocrine disrupting pollutants. Speaker: María Sánchez-Ríos</li> <li>10. Development and validation of brain-derived neurotrophic factor measurement in human urine samples as a non-invasive effect biomarker: a pilot study in adolescent males from the INMA-Granada cohort. Speaker: Elena Salamanca</li> <li>11. Prenatal exposure to a mixture of phenols and longitudinal patterns of attention-deficit hyperactivity disorder (ADHD) from 4 to 11 years in the INMA Study. Speaker: Vicente Mustieles</li> </ol> Questions

		<p><b>Session 2</b>  Room: Ramón y Cajal  Link: (Pending)</p>	<p><b>Session 2: Urban environment and Genetics</b>  Moderator: Ana Fernandez-Somoano</p> <ol style="list-style-type: none"> <li>1. Temperature Exposure and Fetal Growth in three European birth cohorts. Speaker: Esmée Essers</li> <li>2. Urban environment and puberty onset: a population-based birth cohort study. Speaker: Marta Pinto da Costa</li> <li>3. Early-life urban exposome and neurodevelopment. Speaker: Anne-Claire Binter</li> <li>4. Association between air pollution during pregnancy and childhood and motor function in childhood. Speaker: Giovanni Oliva</li> <li>5. Kisspeptin as potential biomarker of environmental chemical mixture effect on reproductive hormone profile: a pilot study in adolescent males from the INMA-Granada cohort. Speaker: Andrea Rodríguez-Carrillo</li> <li>6. Evaluating the association between placenta DNA methylation and cognitive abilities in the offspring. Speaker: Marta Cosin-Tomas</li> <li>7. Placental DNA methylation and reproductive outcomes: a PACE meta-analyses. Speaker: Mariona Bustamante</li> <li>8. BiSC. Speaker: Neus Rosell</li> <li>9. Greenness &amp; Working memory in children aged 6-12 in the INMA cohort. Results of a DAG-led analysis. Speaker: Mikel Subiza</li> <li>10. Multi-dimensions of green space exposure and cognitive development in primary schoolchildren. Speaker: Amanda Fernandes</li> </ol> <p>Questions</p>
		<p><b>Session 3</b>  Room: Rita Levi  Link: (Pending)</p>	<p><b>Session 3: Lifestyle and Miscellanea</b>  Moderator: Lúcia González</p> <ol style="list-style-type: none"> <li>1. Prevalence and risk factors of HPV in two valencian cohorts. Speaker: Natalia Marin</li> <li>2. Development and validation of brain-derived neurotrophic factor measurement in human urine samples as a non-invasive effect biomarker: a pilot study in adolescent males from the INMA-Granada cohort. Speaker: Alicia Olivas-Martínez</li> <li>3. Hair cortisol determinants in 11-year-old children from INMA cohort: environmental and psychosocial factors. Speaker: Ane Arregi</li> <li>4. Maternal iron status during pregnancy and attention deficit/hyperactivity disorder symptoms in 7-year-old children: a prospective cohort study. Speaker: Andrés Díaz-López</li> <li>5. The effect of sleep problems at 8-9 years on ADHD symptoms at 11 years. Speaker: Lúcia González</li> <li>6. Risk and protective factors for mental health and quality of life in adolescence after Covid-19 pandemic lockdown: a longitudinal perspective. Speaker: Nerea Lertxundi</li> <li>7. Physical activity and telomere length in 4-8 years children: an INMA's project longitudinal study. Speaker: Daniel Prieto</li> <li>8. Validation of a Parent-Reported Physical Activity Questionnaire by Accelerometry in European Children Aged from 6 to 12 Years Old. Daniel Prieto</li> <li>9. Cardiovascular risk factors and its patterns of change between 4 and 8 years of age in the INMA-Asturias Cohort. Speaker. Rocío Fernández-Iglesias</li> <li>10. Inflammation profile of Valencia INMA cohort. Speaker: Simona Porru</li> <li>11. Prenatal vitamin D levels influence growth and body composition in boys until 11 years. Speaker: Julia Sangüesa</li> <li>12. Factors associated to the UPF consumption pregnant women and children 4 and 7 years old in the INMA study. Speaker: Sandra Gonzalez Palacios</li> </ol> <p>Questions</p>
	12:00h –12:15h	Break	

	12:15h –13:10h	Session 4 Results Room: Marie Curie <a href="#">Link</a> : (Pending)	<p><b>Results of other birth cohorts and studies</b>  <u>Moderator</u>: Alba Jimeno</p> <ol style="list-style-type: none"> <li>1. Occupational and residential exposure to organophosphate and pyrethroids pesticides in a rural setting (Estudio ECLIPSES). Speaker: Natalia Bravo</li> <li>2. Urinary concentrations of heavy metals in pregnant women according to industrial activity in Tarragona, Spain. Speaker: Xiruo Kou</li> <li>3. Early-life urban exposome and brain structural connectivity and morphology in preadolescents (Generation R). Speaker: Anne-Claire Binter</li> <li>4. Outdoor Residential Air Pollution Exposure and the Development of White Matter Microstructure: A Longitudinal Study of Periods of Susceptibility. Speaker: Michelle Kusters</li> </ol> <p>General discussion</p>
	13:10h – 14:00h	Plenary Session Room: Marie Curie <a href="#">Link</a> : (Pending)	<p>CLOSURE 18th INMA Scientific Conference 2023</p> <p><b>How is time measured and what are the temporal perspectives of environmental health?</b>  Speaker: Joan Grimalt. Institute of Environmental Assessment and Water Research (IDAEA) - Spanish Council for Scientific Research (CSIC)  <u>Moderator</u>: Jordi Sunyer</p>
	14:00h – 15:30h	Lunch Room: (Pending)	
	15:30h	End of the 2 <sup>nd</sup> . day	

**Organizers**



**Collaborators**

