

**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:

Link streaming (full day): <https://meet.google.com/tne-yuym-tvo>

Day	Time	Session Type Room Link	Activity
07/02/2023	9:00h – 9:30h	Room: Marie Curie	<b>Registry</b>
	9:30h – 9:45h	Plenary Session Room: Marie Curie Link: <a href="https://meet.google.com/tne-yuym-tvo">https://meet.google.com/tne-yuym-tvo</a>	<b>Welcome.</b> Martine Vrijheid and Mònica Guxens
	9:45h – 10:45h	Plenary Session Room: Marie Curie Link: <a href="https://meet.google.com/tne-yuym-tvo">https://meet.google.com/tne-yuym-tvo</a>	<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> Jordi Julvez
	10:45h – 11:15h	Coffee Break Room: Inner square - large wood table	
	11:15h – 13:00h	Session 1 Results Room: Marie Curie Link: <a href="https://meet.google.com/tne-yuym-tvo">https://meet.google.com/tne-yuym-tvo</a>	<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 Andiarrena</li> <li>2. Urban exposome and child mental health: an ExWas study in 13 European Birth Cohorts. Speaker: Tim Cadman</li> <li>3. Prenatal exposure to cadmium and children's neuropsychological development. Speaker: Sabrina Llop</li> <li>4. Preliminary results of the association between telomere length and symptoms of attention deficit and hyperactivity disorder (ADHD) in European children at 6-12 years. Speaker: Irene Campos</li> </ol>

			<p>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</p> <p>6. Role of diverse indicators of social inequality in cognitive development in Gipuzkoa and Valencia. Speaker: Llúcia González Safont</p> <p>7. Gut microbiota and mental health in Valencian teenagers: Preliminary results. Speaker: Raúl Beneyto</p> <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: Inner square - large wood table	
	14:30h – 16:00h	Session 2 Results Room: Marie Curie Link: <a href="https://meet.google.com/tne-yuym-tvo">https://meet.google.com/tne-yuym-tvo</a>	<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 mixtures of chemicals with cognitive and fine motor abilities in offspring. Speaker: Pavla Cermakova</li> <li>2. Interactions between persistent organic pollutants and nutritional biomarkers on birth weight. Speaker: German Cano</li> <li>3. Longitudinal mercury 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: Inner square - large wood table	
	16:30h – 17:45h	Session 3 Results Room: Marie Curie Link: <a href="https://meet.google.com/tne-yuym-tvo">https://meet.google.com/tne-yuym-tvo</a>	<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 supplementation during pregnancy and its association with telomere length in children at four years: findings from the INMA birth cohort study. 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 <u>Room</u> : Marie Curie	
	20:30h	Dinner (not funded by organization)	<p><b>PATO PEKIN</b>  <b>奥运村北京烤鸭店</b></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 <u>Room</u> : Marie Curie <u>Link</u> : <a href="https://meet.google.com/qcr-kiou-hfk">https://meet.google.com/qcr-kiou-hfk</a>	<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> : Maties Torrent
	10:30h –11:00h	Coffee Break <u>Room</u> : Inner square - large wood table	
		Poster session <b>3 SESSIONS IN PARALLEL</b>  <b>Session 1</b> <u>Room</u> : Marie Curie <u>Link</u> : <a href="https://meet.google.com/xko-etbg-qwd">https://meet.google.com/xko-etbg-qwd</a>	<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 Fábelová</li> <li>2. Are prenatal exposures to bisphenolA and phthalates associated with molar incisor hypomineralization? A prospective cohort study. Speaker: Ester Cots</li> <li>3. Application of a hierarchical Bayesian model for air pollution prediction in Poland and its association with neurodevelopmental outcomes in children. Speaker: Mercè Gari</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 and 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> </ol>

	11:00h –12:00h	<p><b>Session 2</b>  <u>Room:</u> Ramón y Cajal  <u>Link:</u>  <a href="https://meet.google.com/akc-hzpz-svi">https://meet.google.com/akc-hzpz-svi</a></p> <p><b>Session 3</b>  <u>Room:</u> Rita Levi  <u>Link:</u>  <a href="https://meet.google.com/mum-mfgt-rxs">https://meet.google.com/mum-mfgt-rxs</a></p>	<p>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</p> <p>9. Plastic components and endocrine disrupting chemicals in home dust. Speaker: María Sánchez-Ríos</p> <p>10. Genome-wide distribution of histone trimethylation reveals a global impact of bisphenol A on telomeric binding proteins and histone acetyltransferase factors: a pilot study with human and in vitro data. Speaker: Elena Salamanca</p> <p>11. Prenatal exposure to phenols and longitudinal patterns of attention-deficit hyperactivity disorder (ADHD) from 4 to 11 years in the INMA Study. Speaker: Vicente Mustieles</p> <p>Questions</p> <p><b>Session 2: Urban environment and Genetics</b>  <u>Moderator:</u> 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 in 3 Canadian cohorts. 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. Inhaled doses of Black Carbon in pregnant women from the BiSC cohort. 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: Lifestyle and Miscellanea</b>  <u>Moderator:</u> Lúcia González</p> <ol style="list-style-type: none"> <li>1. Prevalence and risk factors of HPV in two valencian cohorts. Preliminary results. Speaker: Natalia Marin</li> <li>2. Development and validation of BDNF measurement in human urine samples as a non-invasive effect biomarker: a pilot study in adolescent males from the INMA-Granada. 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. The effect of sleep problems at 8-9 years on ADHD symptoms at 11 years. Speaker: Lúcia González</li> <li>5. Risk and protective factors for quality of life in adolescence after Covid-19 pandemic lockdown: a longitudinal perspective. Speaker: Nerea Lertxundi</li> <li>6. Extracurricular physical activity and telomere length in 4 to 8 years old children: a longitudinal study from the INMA project. Speaker: Daniel Prieto</li> <li>7. Validation of a Parent-Reported Physical Activity Questionnaire by Accelerometry in European Children Aged from 6 to 12 Years Old. Daniel Prieto</li> </ol>
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	12:00h –12:15h	Break	
	12:15h –13:10h	<p>Session 4 Results  <u>Room:</u> Marie Curie  <u>Link:</u>  <a href="https://meet.google.com/qcr-kiou-hfk">https://meet.google.com/qcr-kiou-hfk</a></p>	<p><b>Results of other birth cohorts and studies</b>  <u>Moderator:</u> Alba Jimeno</p> <ol style="list-style-type: none"> <li>Occupational and residential exposure to organophosphate and pyrethroids pesticides in a rural setting. Speaker: Natalia Bravo</li> <li>Urinary concentrations of heavy metals in pregnant women according to industrial activity in Tarragona, Spain. Speaker: Xiruo Kou</li> <li>Early-life urban exposome and brain structural connectivity in preadolescents. Speaker: Anne-Claire Binter</li> <li>Outdoor Residential Air Pollution Exposure and the Development of Brain Morphology Across Childhood: A Longitudinal Study. Speaker: Michelle Kusters</li> </ol> <p>General discussion</p>
	13:10h –14:00h	<p>Plenary Session  <u>Room:</u> Marie Curie  <u>Link:</u>  <a href="https://meet.google.com/qcr-kiou-hfk">https://meet.google.com/qcr-kiou-hfk</a></p>	<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	<p>Lunch  <u>Room:</u> Inner square - large wood table</p>	
	15:30h	End of the 2 <sup>nd</sup> . day	

**Organizers**



**Collaborators**

