

## 17<sup>th</sup> INMA-Infancia y Medio Ambiente (Environment and Childhood project) Scientific Conferences 2021

**Title: “Dime dónde vives y te diré a qué te expones. Los efectos en salud de las exposiciones ambientales”**

### Scientific Program

Face to face (+Streaming) in San Sebastian:

Link streaming (full day): <https://ehu.webex.com/ehu/j.php?MTID=m9e650704944ea023d31bbbb6397c1a08>

Day	Time	Session Type	Activity
23/11/2021	9:30h – 10:00h		Registry
	10:00h – 10:30h	Plenary Session	Welcome and Opening session. <b>“Dime dónde vives y te diré a qué te expones. Los efectos en salud de las exposiciones ambientales”</b> . Jesús Ibarluzea
	10:30h – 11:00h	Coffee Break*	
	11:00h – 12:25h	Session 1 Results	Results of INMA Project: <b>- Obesity, Diet and Puberty</b> Moderator: Maribel Casas <ul style="list-style-type: none"> <li>- Sedentary behavior and telomere length shortening during early childhood: evidence from a multicenter prospective study in 4- to 8-year-old children. Daniel Prieto</li> <li>- Prenatal exposure to multiple endocrine disrupting chemicals and childhood BMI trajectories. Parisa Montazeri</li> <li>- Prenatal exposure to phthalates and puberty timing in boys and girls. Carmen Freire (Maribel Casas)</li> <li>- Pre and postnatal exposure to mercury and sexual development. Sabrina Llop</li> <li>- Nutritional modulation of associations between persistent organic pollutants during pregnancy and childhood obesity. German Cano-Sancho (Maribel Casas)</li> <li>- Association of Prenatal Exposure to Molybdenum and other essential minerals with Childhood Obesity in Spain- Results from the Infancia y Medio Ambiente (INMA) Cohort Study. Stasja Ilic</li> <li>- Prenatal Exposure to Mixtures of Non-persistent Endocrine-Disrupting Chemicals and Childhood Obesity and Blood Pressure. Nuria Güil</li> </ul> Public discussion and questions
	12:25h – 13:30h	Session 2 Results	Results of INMA Project: <b>- Physical Exposures, urban environment (AP, Noise, EMF...)</b> Moderator: Juana Mari Delgado <ul style="list-style-type: none"> <li>- Prenatal exposure to air pollution during early-life and maternal and cord blood vitamin D levels. Anne-Claire Binter</li> <li>- Environmental noise and sleep quality at 11 years in the INMA Gipuzkoa cohort. Ane Arregi</li> <li>- Environmental noise exposure and sleep in preadolescents from two European birth cohorts. Esmée Essers</li> <li>- Airborne pesticide concentrations during plant treatment and metabolite urine levels in a population located nearby the crop fields. Joan O. Grimalt</li> <li>- Short- and medium-term air pollution exposure, plasmatic protein levels and blood pressure in children. Paula de Prado</li> </ul> Public discussion and questions
	13:30h – 15:00h	Lunch*	
	15:00h – 16:05h	Session 3 Results	Results of INMA Project: <b>- Psychosocial Factors and COVID</b> Moderator: Mikel Subiza <ul style="list-style-type: none"> <li>- Longitudinal study of the determinants of quality of life during the climacteric period in women in the INMA-Valencia cohort. Natalia Marin</li> <li>- Do prenatal and prepubertal hormones and psychosocial context jointly explain 11-year-old children's bullying involvement? Izaro Babarro</li> </ul>

			<ul style="list-style-type: none"> <li>- SARS-CoV-2 detection in aerosols in indoor spaces of public interest. Juana Mari Delgado</li> <li>- Spread of SARS-CoV-2 in hospital areas. Joan Grimalt</li> </ul> <p><b>POSTERS:</b></p> <ul style="list-style-type: none"> <li>- Risk and protective factors for mental health and quality of life in adolescence after Covid-19 pandemic lockdown: a longitudinal perspective. Nerea Lertxundi</li> <li>- Cumulative incidence and most frequent symptoms of Covid-19 in the INMA-Valencia Cohort. Natalia Marin</li> </ul> <p>Public discussion and questions</p>
	16:05h –16:50h	Session 4 Results	<p>Results of INMA Project:</p> <p><b>- Neurodevelopment</b></p> <p>Moderator: Jordi Julvez</p> <ul style="list-style-type: none"> <li>- Prenatal arsenic exposure, arsenic methylation efficiency, and neuropsychological development among pre-school children in the Valencia and Gipuzkoa INMA cohorts. Raquel Soler-Blasco</li> <li>- Association between telomere length and neuropsychological development at 4 years old in children from INMA project: cross-sectional study. Irene Campos</li> <li>- The association between maternal ultra-processed food consumption during pregnancy and child neuropsychological development: A population-based birth cohort study in Spain. Júlia Puig-Vallverdú (Jordi Julvez)</li> </ul> <p>Public discussion and questions</p>
	16:50h – 17:20h	Coffee Break*	
	17:20h-18:50h	Plenary Session	<p><b>Moderator: Amaia Irizar</b></p> <p><b>PARC. European Project.</b></p> <p><b>Results of other birth cohorts</b></p> <ul style="list-style-type: none"> <li>- First descriptive data of the BISC cohort. Zoraida García</li> <li>- Personal exposure to air pollutants during pregnancy in the BiSC cohort. Ioar Rivas (Pol Jimenez)</li> <li>- Prenatal exposure to air pollution and child motor and cognitive function: results from ECLIPSES study. Lucia Iglesias</li> <li>- Air pollution during early-life and brain structure: cumulative exposures and windows of vulnerability. Anne-Claire Binter</li> <li>- Evolution of levels of perinatal maternal perceived stress during COVID-19 pandemic in Barcelona. Ioar Rivas (Neus Rosell)</li> <li>- Impact of maternal postpartum depression on child behaviour. Paula Labrés</li> </ul> <p>Public discussion and questions</p>
	18:50h	End of the 1 <sup>st</sup> . day	

**Face to face (+Streaming) in San Sebastian:**

Link streaming (full day): <https://ehu.webex.com/ehu/j.php?MTID=m9e650704944ea023d31b5bb6397c1a08>

Day	Time	Session Type	Activity
24/11/2021	8:30h – 9:30h	Closed Session	INMA Direction Committee breakfast
	9:30h –10:45h	Session 5 Results	<p>Results of INMA Project:</p> <p><b>- Genetics</b></p> <p>Moderator: Jordi Sunyer</p> <ul style="list-style-type: none"> <li>- Placenta mQTLs: Final INMA database and applications. Ariadna Cilleros-Portet</li> <li>- Comparing imputation panels and merging strategies across INMA genotype datasets. Sergi Mari</li> <li>- Pre-pregnancy maternal body mass index and placental methylation: a meta-analysis of 2,631 mother-child pairs. Nora Fernandez-Jimenez (Jose Ramon Bilbao)</li> <li>- Integrative study of CNN LOH mosaicism and its relationship with the exposome and health. Laura Balagué</li> <li>- The effect of polymorphic inversions on DNA methylation and its modulation by the early-life exposome. Natalia Carreras</li> <li>- Epigenome-wide study of exposure to Green spaces and cord blood DNA methylation. Sofia Aguilar</li> </ul> <p>Public discussion and questions</p>

	10:45h-11:15h 11:15h –12:00h	Coffee Break* Session 6 Results	<p>Results of INMA Project:</p> <p><b>- POSTERS 1</b></p> <p>Moderator: Sabrina Llop</p> <ul style="list-style-type: none"> <li>- Exposure to non-persistent pesticides and associated factors in children at 8 years of age (INMA cohort). Josune Dominguez</li> <li>- Organophosphate pesticides, pyrethroids and bisphenols in eight-year old children from Asturias. Natalia Bravo (Joan Grimalt)</li> <li>- Exposure to mercury in INMA Valencia: from prenatal period to adolescence. Ferran Ballester</li> <li>- Prenatal exposure to toxic metals and telomere length at 4 and 7 years of age in the INMA-Gipuzkoa cohort (Spain). Nora Molas</li> <li>- Arsenic exposure and respiratory outcomes during childhood in the INMA study. Antonio J. Signes Pastor</li> <li>- Prenatal multiple metals exposure and blood pressure throughout childhood: A longitudinal study using Bayesian mixed effects linear regression with multivariate prior for metals coefficients. Preliminary results for INMA-Valencia cohort. Gabriel Riutort-Mayol</li> <li>- Maternal Perfluoroalkyl Substances, Thyroid Hormones, and DIO Genes: A Spanish Cross sectional Study. Blanca Sarzo (María José López)</li> </ul> <p>Public discussion and questions</p>
	12:00h –12:20h 12:20h –13:00h	Break Session 7 Results	<p>Results of INMA Project:</p> <p><b>- POSTERS 2</b></p> <p>Moderator: Alba Jimeno</p> <ul style="list-style-type: none"> <li>- Association of breastfeeding and genome-wide DNA methylation in child blood. Mariona Bustamante (Sofía Aguilar)</li> <li>- Vaginal microbiota: factors that determine its compositions and diversity. María Montagud (María José López)</li> <li>- Mental health in women of middle-age: Mindfulness as an assessment tool. Marisa Nieto (Natalia Marin)</li> <li>- Secular trend in menarche and menopause: results of a comparison between two population-based studies in the Valencian Community and the INMA - Valencia Cohort. Andrea Beneito</li> <li>- <del>Air pollution and growth and obesity outcomes: a meta-analysis in 11 birth cohorts from the European LifeCycle project.</del> Serena Fossati</li> <li>- Early-life urban environment and growth and obesity in pre-schoolers. Serena Fossati (Not presented in the conference)</li> </ul> <p>Public discussion and questions</p>
	13:00h-13:45h	Plenary Session	<p>CLOSURE of the Face to Face 17<sup>th</sup> INMA Scientific Conference 2021.</p> <p><b>"Early life environmental insult hallmarks"</b>. Jordi Sunyer</p> <p>Announcement 18<sup>th</sup>. INMA Scientific Conference 2022</p>
	13:45h – 15:15h	Lunch*	
	15:15h	End of the 2 <sup>nd</sup> . day	

**On-line:**

Day	Time	Session Type	Activity
29/11/2021	9:00h – 10:30h	Meeting of INMA Working group <b>Link:</b> <a href="https://meet.google.com/rwg-nuyh-uwg">https://meet.google.com/rwg-nuyh-uwg</a>	<b>Respiratory and Allergies</b> <b>Coordinator: Maribel Casas</b>
	10:30h-10:45h	Break	
	10:45h – 12:15h	Meeting of INMA Working group <b>Link:</b> <a href="https://meet.google.com/gvt-xrjt-wsy">https://meet.google.com/gvt-xrjt-wsy</a>	<b>Neurodevelopment</b> <b>Coordinator: Jordi Julvez</b>
	12:15h	End of the 3 <sup>rd</sup> . day	

**On-line:**

Day	Time	Session Type	Activity
30/11/2021	9:00h – 10:30h	Meeting of INMA Working group <b>Link:</b> <a href="https://meet.google.com/iwj-uccp-jee">https://meet.google.com/iwj-uccp-jee</a>	<b>Statistics</b> <b>Coordinator:</b>
	10:30h-10:45h	Break	
	10:45h – 12:15h	Meeting of INMA Working group <b>Link:</b> <a href="https://meet.google.com/usq-qtev-wzm">https://meet.google.com/usq-qtev-wzm</a>	<b>Biomarkers</b> <b>Coordinator: Sabrina Llop</b>
	12:15h-12:30h	Break	
	12:30h-14:00h	Meeting of INMA Working group <b>Link:</b> <a href="https://meet.google.com/ztb-sisw-vpa">https://meet.google.com/ztb-sisw-vpa</a>	<b>Pubertal development and hormonal disorders</b> <b>Coordinator: María José López</b>
	14:00h	End of the 4 <sup>rd</sup> . day	

**On-line:**

Day	Time	Session Type	Activity
1/12/2021	9:00h – 10:30h	Meeting of INMA Working group <b>Link:</b> <a href="https://meet.google.com/zci-grsj-oof">https://meet.google.com/zci-grsj-oof</a>	<b>INMA 20+</b> <b>Coordinator: Nerea Lertxundi</b>
	10:30h-10:45h	Break	
	10:45h – 12:15h	Meeting of INMA Working group <b>Link:</b> <a href="https://meet.google.com/tvc-gsua-krp">https://meet.google.com/tvc-gsua-krp</a>	<b>GIS variables (green and gray spaces, noise, traffic, land use) and Air Pollution</b> <b>Coordinator: Antonia Valentin</b>
	12:15h-12:30h	Break	
	12:30h-14:00h	Meeting of INMA Working group <b>Link:</b> <a href="https://meet.google.com/wrz-sdcj-wuk">https://meet.google.com/wrz-sdcj-wuk</a>	<b>Follow-up visit protocols 14-16 years</b> <b>Coordinator: Carmen Freire/Maribel Casas</b>
	14:00h	End of the 5 <sup>th</sup> . day	

**On-line:**

Day	Time	Session Type	Activity
2/12/2021	9:00h – 10:30h	Meeting of INMA Working group <b>Link:</b> <a href="https://meet.google.com/afu-gsrj-wef">https://meet.google.com/afu-gsrj-wef</a>	<b>(Epi)Genetics and Omics</b> <b>Coordinator: Mariona Bustamante</b>
	10:30h-10:45h	Break	
	10:45h – 12:15h	Meeting of INMA Working group <b>Link:</b> <a href="https://meet.google.com/jid-wxwd-wij">https://meet.google.com/jid-wxwd-wij</a>	<b>Nutrition</b> <b>Coordinator: Jesús Vioque</b>
	12:15h-12:30h	Break	
	12:30h-14:00h	Meeting of INMA Working group <b>Link:</b> <a href="https://meet.google.com/nmw-qtim-yws">https://meet.google.com/nmw-qtim-yws</a>	<b>INMA Parents</b> <b>Coordinator:</b>
	14:00h	End of the 6 <sup>th</sup> . day	

**On-line:**

Day	Time	Session Type	Activity
3/12/2021	9:00h – 10:30h	Meeting of INMA Working group <b>Link:</b> <a href="https://meet.google.com/hjn-gwuo-wja">https://meet.google.com/hjn-gwuo-wja</a>	<b>Obesity, Postnatal Growth and Physical Activity</b> <b>Coordinator: Martine Vrijheid</b>
	10:30h-10:45h	Break	
	10:45h – 12:15h	Meeting of INMA Working group <b>Link:</b> <a href="https://meet.google.com/ntd-upwd-zzs">https://meet.google.com/ntd-upwd-zzs</a>	<b>New cohorts</b> <b>Coordinator: Aitana Lertxundi</b>
	12:15h	End of the 17 <sup>th</sup> . INMA Scientific Conference 2021	

**\*Coffee break and lunch is covered by collaborators.**

**Organisers**



**Collaborators**

