

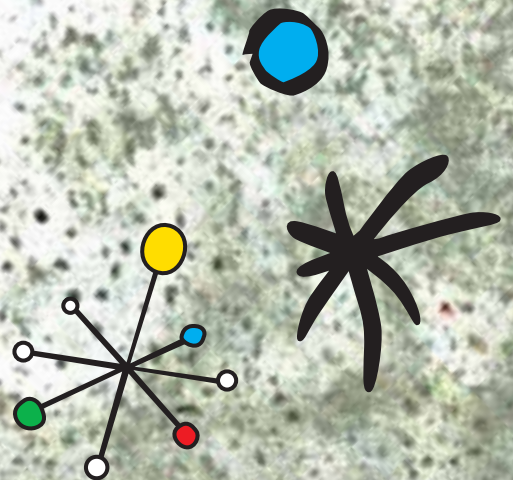


ISEE
2011
Barcelona

**International Society for
Environmental Epidemiology**
September, 13th-16th 2011



Hosted by



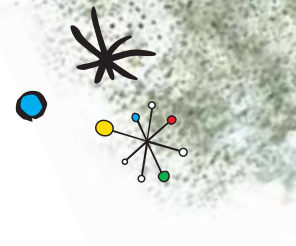
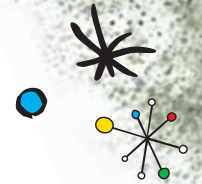


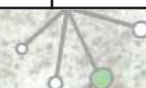
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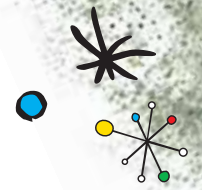
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Programme at a Glance

Monday 12 th	Tuesday 13 th	Wednesday 14 th	Thursday 15 th	Friday 16 th
		07:30 – 08:30 Early Morning Sessions	07:30 – 08:30 Early Morning Sessions	07:30 – 08:30 Early Morning Sessions
Morning Pre-Conference Workshops	Morning Pre-Conference Workshops	08:30 – 09:30 Plenary Session	08:30 – 09:30 ISEE Awards & Plenary Session	08:30 – 09:30 Plenary Session
		09:30 – 11:00 Oral & Symposia Sessions	09:30 – 11:00 Oral & Symposia Sessions	09:30 – 11:00 Oral & Symposia Sessions
		11:00 – 11:30 Coffee Break	11:00 – 11:30 Coffee Break	11:00 – 11:30 Coffee Break
Afternoon Pre-Conference Workshops	Afternoon Pre-Conference Workshops	11:30 – 13:00 Oral & Symposia Sessions	11:30 – 13:00 Oral & Symposia Sessions	11:30 – 13:00 Oral & Symposia Sessions
		13:00 – 14:00 Lunch	13:00 – 14:00 Lunch	13:00 – 14:00 Lunch
			13:15 – 14:00 Meeting ISEE Members in European Countries	
		14:00 – 15:00 Poster Viewing	14:00 – 15:00 Poster Viewing	14:00 – 15:00 Poster Viewing
		15:00 – 16:00 Poster Discussion	15:00 – 16:00 Poster Discussion	15:00 – 16:00 Poster Discussion
		16:00 – 16:30 Coffee Break	16:00 – 16:30 Coffee Break	16:00 – 16:30 Coffee Break
	17:30 – 18:30 Opening Reception	16:30 – 18:00 Oral & Symposia Sessions	16:30 – 18:00 Oral & Symposia Sessions	16:30 – 18:00 Oral & Symposia Sessions
	18:30 – 20:00 Welcome Cocktail and Wine Tasting	18:00 – 19:30 ISEE General Membership Meeting	18:00 – 19:15 Workshop	
			20:00 till late Conference Dinner Museu Marítim (Marques de Comillas Hall)	





Welcome from the Chairs

Dear Colleagues and Friends,

On behalf of the ISEE Barcelona Organising Committees, it is a great pleasure to welcome you to the **23rd International ISEE Conference**.

We have put together an exciting programme which will provide significant new knowledge and insights on environment and health. We would like to acknowledge the contribution of Prof. Juha Pekkanen, Chair of the Scientific Committee and Prof. Brenda Eskenazi vice-Chair, for their continuous help and insight in preparing the conference. We would also like to thank the members of the International Scientific Committee and other reviewers for their help that was essential for producing the scientific programme. We would, finally, like to thank all of you for submitting to the conference these exciting new results produced across the world. We are particularly happy to note the increased participation of delegates outside Europe and North America. Environmental health issues are global and the ISEE needs this global view and active participation if we want to respond to the huge global challenges. We were able to attract excellent scientists to give keynote lectures and early morning sessions and, with your help, to organise attractive workshops and symposia covering a wide range of topics. We received over 1500 abstracts which, after peer review, were allocated to the oral, poster discussion and poster presentation sessions. The posters will be up for the full three days, which provides greater opportunity to view and discuss them. We will have an intensive three days and we are sure that they will be worthwhile and stimulating.

For this conference we have specific themes; **Sustainable transport and health**: Impact of transport on health and approaches to reduce health impacts, **Impact of climate change**: from water scarcity to Saharan dust episodes, and **Early exposure - later life**: in utero and early life exposures and effects in later life, and we hope that the conference will stimulate discussion and research in these particular areas. Of course at the conference we will discuss all other important research areas of the ISEE community and will have fruitful and interesting presentations and discussions on the most important challenges on environment and health that our society is facing.

Besides the scientific programme, there is the city. Barcelona, the capital of Catalonia is unequivocally a Mediterranean city, not only because of its geographic location but also and above all because of its history, tradition and cultural influences. The documented history of the city dates back to the founding of a Roman colony on its soil in the second century B.C. Modern Barcelona experienced spectacular growth and economic revival at the onset of industrialization during the second half of the 19th century. An important milestone was the 1992 Barcelona Olympics which has put Barcelona on the map as one of the most attractive places to visit.

The city of Barcelona has one of the highest population densities in Europe, and a long tradition of urbanism that makes it an important reference point in urban design and town planning. Its modern urban development is based on the extension plan (Eixample) created by Ildefons Cerdà, an engineering and utopian socialist who took into account public health concerns.

We hope that you will enjoy Barcelona as much as we do.

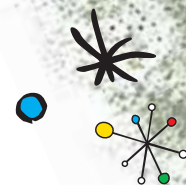


Mark J. Nieuwenhuijsen

Manolis Kogevinas

On behalf of the Local Organising Committee





Welcome from the ISEE President

On behalf of the International Society for Environmental Epidemiology, I welcome you to Barcelona for the 23rd Annual Conference of the International Society for Environmental Epidemiology (ISEE).

Barcelona is one of the most popular cities in the world for visitors and home of the highly respected Centre for Research in Environmental Epidemiology, which is serving as the conference host. It is no surprise that the conference has a record large registration.

The Conference Organizing Committee has planned an outstanding meeting of symposia, papers, and posters with opportunities to discuss many of the environmental health issues facing our global environment. We hope you will take advantage of this opportunity to participate in interesting discussions, meet with colleagues, and forge new collaborations. I would like to thank Dr. Mark Nieuwenhuijsen and Dr. Manolis Kogevinas who have served as the Conference Organising Committee chair and co-chair. Dr. Juha Pekkanen and Dr. Brenda Eskenazi chaired the Conference Scientific Committee. I want to acknowledge all of their significant contributions and the efforts of their colleagues, staff, and volunteers in organising the conference.

The success of the conference now rests on your collective shoulders, in your presentations and participation. I encourage you to experience as much as you can, to meet new colleagues, to debate scientific perspectives, and to take some time to enjoy this wonderful city.

Again, welcome to Barcelona, and to the 2011 ISEE Conference.



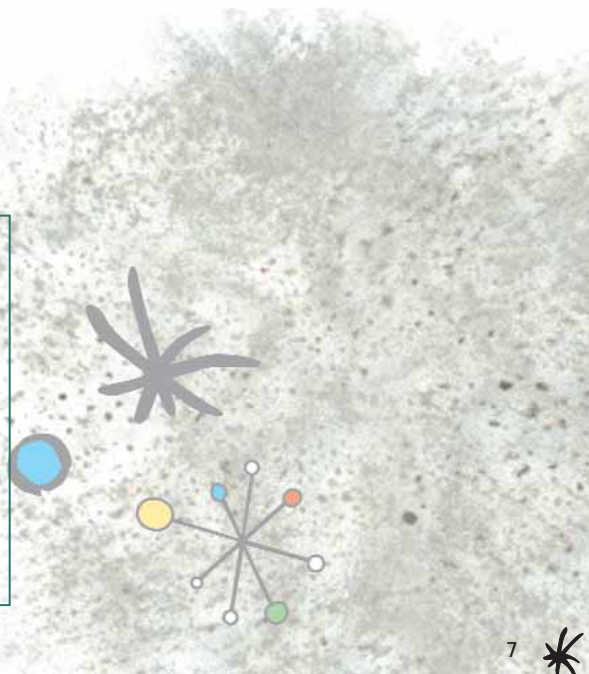
Dean Baker
ISEE President

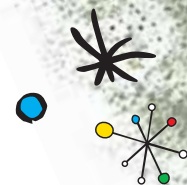
About



ISEE is an International Organization with members from more than 50 countries and regional chapters and local groups in Latin American and the Caribbean, the Mediterranean, Central and Eastern Europe, the Caucasus, South Asia, and East Asia. Membership details are available on our website at <http://www.iseepi.org/index.html>

Topics addressed by ISEE members include environmental exposures (e.g. air pollution, hazardous waste, metals, pesticides, radiation), health effects (e.g. cancer, cardiovascular disease, neurologic effects, reproductive effects), methodology (e.g. biomarkers, ecologic investigators, experimental design, exposure/dose assessment, meta-analysis, risk assessments, statistics), environmental-gene interactions, and ethics and law.





Organisation

Many people are responsible for this Conference. Without all of you, the delegates, nothing would ever happen. However, a small group of people have worked very hard to make all this happen so, on your behalf, our thanks to them.

Honorary Committee

Dr. Boi Ruiz García, *Minister of Health, Government of the Generalitat of Catalonia - Chair*
 Ms. Leire Pajín Iraola, *Minister for Health, Social Policy and Equality, Government of Spain*
 Mr. Xavier Trias Vidal de Llobatera, *the Mayor of Barcelona, Town Council of Barcelona*
 Mr. Lluís Recoder Miralles, *Minister of Territory and Sustainability, Government of the Generalitat of Catalonia*
 Prof. Josep-Joan Moreso Mateos, *Rector of Universitat Pompeu Fabra*
 Dr. Octavi Quintana Trias, *Director of European Research Area, European Commission*
 Dr. Manuela Soares, *Director of the Environment, European Commission*
 Prof. Jacqueline McGlade, *Executive Director, European Environment Agency*
 Dr. Maria Neira, *Director of the Department of Public Health and Environment, World Health Organization*
 Prof. José Jerónimo Navas Palacios, *Director of Instituto de Salud Carlos III*
 Dr. Josep M. Via Redons, *Chair Advisory Board of the Parc de Salut Mar of Barcelona*

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 Ferrán Ballester, *CSISP, Valencia*
 Elisabeth Cardis, *CREAL, Barcelona*
 Joan Grimalt, *CSIC, Barcelona*
 Teresa Moreno, *CSIC, Barcelona*
 Bart Ostro, *CREAL, Barcelona*
 Antoni Plasència, *Public Health, Government of Catalonia*

Mark J. Nieuwenhuijsen, *Chair*

Manolis Kogevinas, *Co-Chair*

Xavier Querol, *CSIC, Barcelona*
 Jordi Sunyer, *CREAL, Barcelona*
 Mar Viana, *CSIC, Barcelona*
 Cristina Villanueva, *CREAL, Barcelona*
 Martine Vrijheid, *CREAL, Barcelona*
 Jan-Paul Zock, *CREAL, Barcelona*

Scientific Committee

Toni Agudo, *Spain*
 Dean Baker, *USA*
 Michelle L. Bell, *USA*
 Pier Alberto Bertazzi, *Italy*
 Ioan Bocsan, *Romania*
 Jens Peter Bonde, *Denmark*
 Michael Brauer, *Canada*
 Bert Brunekreef, *The Netherlands*
 Peter Burney, *UK*
 Colin Butler, *Australia*
 Ken Cantor, *USA*
 Chang-Chuan Chan, *Taiwan*
 Hae-Kwan Cheong, *Republic of Korea*
 Richard Clapp, *USA*
 Aaron Cohen, *USA*
 Pietro Comba, *Italy*
 Sylvaine Cordier, *France*
 Tiaan de Jager, *South Africa*
 Silvia de Sanjosé, *Spain*
 George Delclos, *USA*
 Paul Demers, *Canada*
 Eric Dewailly, *Canada*
 Jeroen Douwes, *New Zealand*
 Tony Fletcher, *UK*
 Francesco Forastiere, *Italy*
 Frank Gilliland, *USA*
 Nelson Gouveia, *Brazil*
 Philippe Grandjean, *Denmark*
 How-Ran Guo, *Taiwan*
 Dick Heederik, *The Netherlands*
 Joachim Heinrich, *Germany*

Juha Pekkanen, *Finland, Chair*

Irva Hertz-Picciotto, *USA*
 Jane Heyworth, *Australia*
 Susan Hodgson, *UK*
 Gerard Hoek, *The Netherlands*
 Barbara Hoffman, *Germany*
 Yasushi Honda, *Japan*
 Yun-Chul Hong, *Republic of Korea*
 Deborah Jarvis, *UK*
 Michael Jarrett, *USA*
 Jouni Jaakkola, *Finland*
 Sonja Kahlmeier, *Switzerland*
 Margaret Karagas, *USA*
 Klea Katsouyanni, *Greece*
 Francine Kauffmann, *France*
 Joel Kaufman, *USA*
 Tom Keegan, *UK*
 Nino Künzli, *Switzerland*
 Laden, Francine, *USA*
 Bruce Lanphear, *Canada*
 Dominique Laurier, *France*
 Eric Lebret, *The Netherlands*
 Jong-Han Leem, *Republic of Korea*
 Stephanie London, *USA*
 Matthew Longnecker, *USA*
 Dama Loomis, *USA*
 Lizbeth López-Carrillo, *Mexico*
 Tony McMichael, *Australia*
 Fabian Mendez, *Colombia*
 Dona Mergler, *Canada*
 Adetoun Mustapha, *Nigeria*
 Ana Navas-Acien, *USA*

Brenda Eskenazi, *USA, Vice-Chair*

Per Magnus, *Norway*
 Marie O'Neill, *USA*
 Jorn Olsen, *USA*
 Neil Pearce, *UK*
 Goran Pershagen, *Sweden*
 Annette Peters, *Germany*
 Marina Pollan, *Spain*
 Miquel Porta, *Spain*
 Beate Ritz, *USA*
 Martin Röösli, *Switzerland*
 Siegal Sadetzki, *Israel*
 Jon Samet, *USA*
 David Savitz, *USA*
 Greet Schoeters, *Belgium*
 Jane Schroeder, *USA*
 Joel Schwartz, *USA*
 Elen Silbergeld, *USA*
 Remy Slama, *France*
 Colin Soskolne, *Canada*
 Eric Svendsen, *USA*
 Duncan Thomas, *USA*
 Mireille Toledano, *UK*
 Paolo Vineis, *UK*
 Mary Ward, *USA*
 Alen Wilcox, *USA*
 Chit Ming Wong, *China*
 Alistair Woodward, *New Zealand*
 Michael Wright, *USA*
 Chonghuai Yan, *China*

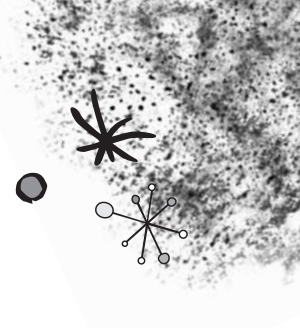


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**International Society for
Environmental Epidemiology**

September 13th-16th 2011

Palau de Congressos de Barcelona - Fira de Barcelona



Sponsors

We acknowledge, with gratitude, the generous support of our **Sponsors**. It is very hard to get sponsorship in the middle of a major recession but it is also very hard to give it. Without the vision and generosity of these Organisations, it would have been very difficult for us to host this Conference.

Through the generous sponsorships we are able to support administrative costs, to fund travel fellowships, etc.

Conference Information

Registration

The Registration and Technical Secretariat desk is located in the Level 1 (ground floor) of the Palau de Congressos de Barcelona, Venue of the Conference, and will be open as follows:

Opening hours

Tuesday	September 13 th	16:00 – 20:00
Wednesday	September 14 th	07:00 – 18:00
Thursday	September 15 th	07:30 – 18:00
Friday	September 16 th	07:30 – 18:00

Certificate of Attendance

Certificate of attendance will be given with the rest of documents when you arrive and register at the Conference.

Identification Badges

All conference delegates will receive their name badge at the Registration Secretariat desk with the rest of documents. Please wear it at all times.

Poster Presentations

All posters are numbered in the following format: P000X. Please note your poster number, as it is very important.

Poster will need to be put up on Wednesday 13th, from 07.30 h. and will stay up during the whole Conference; the Organisation is not responsible of posters that have not been removed on Friday 13th at 18.00 hrs.

In case your poster is still up on Friday 16th, after 18:00 hrs., we will not take responsibility for it.

Double faced tape and scissors will be available at the Poster Desk in the Level 0 of the Palau de Congressos de Barcelona.

Speakers' Preview Room

The Speaker s Preview Room is in the Room 2, on the Level 2.

All speakers should contact with the Audiovisual Technician as soon as possible and no later than 2 hours before their presentations.

The speakers' preview room will be opened as follows:

Tuesday	September 13 th	16:00 – 20:00
Wednesday	September 14 th	07:30 – 18:00
Thursday	September 15 th	07:30 – 18:00
Friday	September 16 th	07:30 – 18:00

Please use a memory stick to download your presentation.

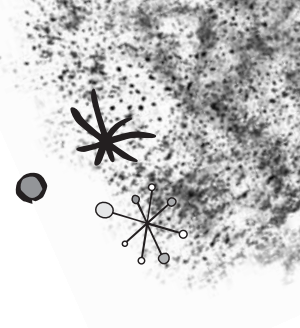
The audiovisual equipment will be ready to open the different versions of Microsoft Office, videos are allowed. Own computers will not be allowed on the session rooms. If you work with Mac System we highly recommend to change your presentation to Microsoft Office.

Insurance

The ISEE 2011 Organizing Committee, or its agents, will not be responsible for any medical expenses, loss, damages or accidents during the Conference.

Volunteers

There are volunteers available to assist delegates. The volunteers are all wearing white T-shirts with the ISEE 2011 logo printed on it.



Awards

The awards will be presented Thursday morning at the Plenary Session.

John Goldsmith Award for Outstanding Contributions to *Environmental Epidemiology*

The John Goldsmith Award is for sustained and outstanding contributions to the knowledge and practice of environmental epidemiology.

The awardee this year is **Dr. Irva Hertz-Piccolto**.

Rebecca James Baker Memorial Prize

In August, 2004, environmental epidemiologist Dr. Rebecca James Baker died unexpectedly at age 33, of a pregnancy-related heart condition. Rebecca was particularly committed to environmental epidemiology as a tool for improving public health and quality of life and to working with people from different cultures and backgrounds.

To honor Rebecca's memory and to encourage students and new investigators to follow her example, the **Rebecca James Baker Memorial Prize** is awarded each year at the ISEE Annual Conference.

The award is given among graduate level students and new investigators who are within three years of having completed their degree who are first authors on an accepted abstract for the ISEE 2011 Annual Conference in Barcelona.

Best Environmental Epidemiology Paper Award

This ISEE annual award for the best environmental epidemiology paper published in a peer-reviewed journal aims to recognize excellence in the field of environmental epidemiology and encourage the publication of outstanding papers.

Criteria for the award include but are not limited to:

- Quality (data, analyses, presentation, argument)
- Originality
- Importance/impact

The winning paper is selected by the ISEE Best Environmental Epidemiology Paper Award Committee and approved by the ISEE Council.

The handling editor of the journal in which the paper is published will receive a special certificate.

New Researcher Best Abstract Award

ISEE offers two awards (200 € each) for the best abstracts in environmental epidemiology submitted by a new researcher.

New researchers are considered those who have fewer than 5 years of experience from their terminal degree (PhD, MD or other) in the field of environmental epidemiology or other related disciplines.

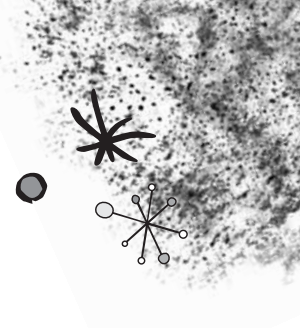
Student Poster Award

ISEE offers awards for the best abstracts in environmental epidemiology submitted by a student.

The award is organised by the Students and New Researchers Network (SNRN).

Criteria include - novelty/innovation in respective field, methodological rigor, clarity of poster lay-out/fonts/structure, oral discussion of the poster (if asked by judges circulating between 06:30-07:15 pm) and level of contribution of students (versus advisor).

Participating posters will be displayed on Tuesday, September 13th, from 06:30-07:30 pm in the Lobby of the Conference Venue.

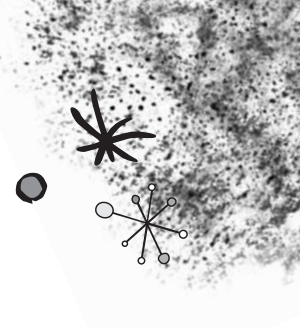


Tuesday, September 13th

17:30 – 18:30	Opening Ceremony – Auditorium Environment and cancer – research priorities. Christopher Wild. (Pg. 18 & 24) Ildefons Cerdà. Barcelona city design and public health. Ferran Sagarra. (Pg. 18 & 24)
18:30 – 20:00	Welcome Cocktail and Wine Tasting. Student Poster Award

Wednesday, September 14th

Room	Auditorium	Room 6	Room 5	Room 3
07:30 – 08:30 Early Morning Sessions				Classics in environmental epidemiology: The Barcelona soy bean outbreak. Josep-Maria Antó (Pg. 24)
08:30 – 09:30 Plenary Sessió	Auditorium Environmental epidemiology in the context of translational science: Lessons from studies of air pollution and cardiovascular diseases. Joel Kaufman. (Pg. 19 & 24) Transport and health. Bert Brunekreef. (Pg. 19 & 24)			
09:30 – 11:00 Oral Sessions & Simposia	OS.1 Air Pollution & Respiratory Diseases I (Pg. 24)	OS.2 Exposure Assessment I (Pg. 25)	OS.3 POPs and Health I (Pg. 25)	OS.4 Infectious Disease (Pg. 25)
11:00 – 11:30	Coffee Break			
11:30 – 13:00 Oral Sessions & Simposia	OS.7 Air Pollution & Cardiovascular Disease I (Pg. 27)	OS.8 Water Contaminants & Health I (Pg. 27)	OS.9 Indoor Air & Health I (Pg. 27)	OS.10 Child Health (Pg. 28)
13:00 – 14:00	Lunch			
14:00 – 16:00	POSTER VIEWING			
15:00 – 16:00 Poster Discussion			PD.1 Air Pollution & Cardiovascular Disease (Pg. 29)	PD.2 Exposure to Ultrafines & Elemental Carbon (Pg. 30)
16:00 – 16:30	Coffee Break			
16:30 – 18:00 Oral Sessions & Simposia	OS.13 Air Pollution & Respiratory Diseases I (Pg. 31)	OS.14 Pesticides & Health I (Pg. 32)	OS.15 Occupational Health I (Pg. 32)	OS.16 Environmental Health Policy (Pg. 32)
18:00 – 19:30				ISEE General Membership Meeting. (Pg. 34)

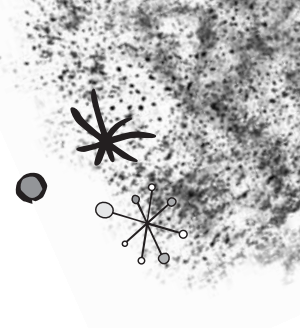


Conference Schedule

OS ▶ Oral Sessions **PD** ▶ Poster Discussion **S** ▶ Symposium

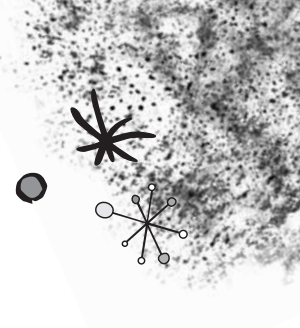
Wednesday, September 14th

Room 8	Room 4	Room 11	Room 12
Determining when epidemiology can (and cannot) help to assess small effects of environmental exposures. David Savitz (Pg. 24)	Gene X environment interaction: Do we fail to identify influential environmental determinants of health by ignoring genes? Irva Hertz-Picciotto (Pg. 24)		
OS.5 Cancer (Pg. 26)	OS.6 Noise and Health (Pg. 26)	S.1 Symposium Sustainable transport and health: Integrated assessments for shifting the paradigm for cycling and walking. (Pg. 26)	S.2 Symposium Emerging evidence on early life arsenic exposure, biomarkers and clinical response. (Pg. 26)
Coffee Break			
OS.11 Climate Change & Health (Pg. 28)	OS.12 Green Space & Health (Pg. 28)	S.3 Symposium Assessment of long-term exposure to air pollution in 37 study areas in Europe using a harmonized approach: the ESCAPE Project. (Pg. 29)	S.4 Symposium In utero bisphenol a exposure and children's health (Pg. 29)
Lunch			
PD.3 Environmental Exposures & Thyroid Function (Pg. 30)	PD.4 Environmental Health Impact Assessment of Policies Methodology & Uses. (Pg. 31)	PD.5 Mercury & Health (Pg. 31)	PD.6 Agricultural Chemicals & Children's Health (Pg. 31)
Coffee Break			
OS.17 Built Environment (Pg. 33)	OS.18 Methods, General (Pg. 33)	S.5 Symposium What will be the role of epidemiological research in future air-quality management? (Pg. 33)	S.6 Symposium Lessons learned 25 years post-Chernobyl: Health effects of early life and later exposures (Pg. 34)



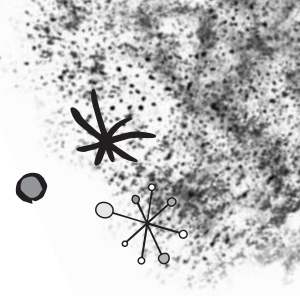
Thursday, September 15th

Room	Auditorium	Room 6	Room 5	Room 3
07:30 – 08:30 Early Morning Sessions				Writing and publishing an environmental epidemiology paper. Jane Schroeder & Allen Wilcox (Pg. 34)
08:30 – 09:30 Plenary Session	Auditorium ISEE Awards Goldsmith awardee. Irva Hertz-Picciotto. (Pg. 20) ISEE2012 South Carolina			
09:30 – 11:00 Oral Sessions & Simposia	OS.19 Air Pollution & Cardiovascular Disease II (Pg. 34)	OS.20 Exposure Assessment II (Pg. 35)	OS.21 Metals & Health I (Pg. 35)	OS 22 Water Contaminants & Health II (Pg. 35)
11:00 – 11:30	Coffee Break			
11:30 – 13:00 Oral Sessions & Simposia	OS.25 Exposure Assessment Air Pollution I (Pg. 37)	OS.26 Climate Change, Temperature (Pg. 37)	OS.27 Transport & Health I (Pg. 37)	OS.28 POPs & Health II (Pg. 38)
13:00 – 14:00	Lunch			
13:15 – 14:00	Room 3 ▶ Meeting ISEE members in European Countries: Discussion for the formation of a European Chapter in ISEE. (Pg. 39)			
14:00 – 16:00	POSTER VIEWING			
15:00 – 16:00 Poster Discussion			PD.7 Measuring Particulate Mater in Low-income Countries. (Pg. 39)	PD.8 Air Pollution in Travel Micro Environments. (Pg. 40)
16:00 – 16:30	Coffee Break			
16:30 – 18:00 Oral Sessions & Simposia	OS.30 Air Pollution & Respiratory Diseases II (Pg. 41)	OS.31 Exposure Assessment Air Pollution II (Pg. 42)	OS.32 Phthalates, BPA & Health (Pg. 42)	S.12 Symposium Vicky Cristina Barcelona (and Joan, Bart, Xavier): An overview of Barcelona and its public health issues. (Pg. 42)
18:00 – 19:15	Room 3 ▶ ISEE Student and New Researcher Committee Workshop. Multidisciplinary research within environmental epidemiology. (Pg. 44)			
20:00 – Late	ISEE 2011 Dinner ▶ Marques de Comillas Hall at the Maritime Museum of Barcelona			



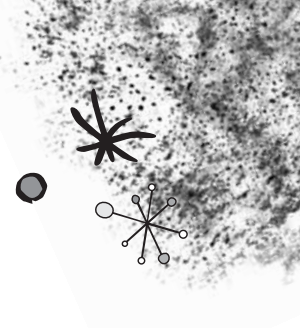
Conference Schedule

Room 8	Room 4	Room 11	Room 12
Low level exposure to chemicals such as lead, VOCs, bisphenol A and phthalates in the community. A discussion on health effects, standard levels and regulations. Yun-Chul Hong. (Pg. 34)	Why we should all be Bayesians (and often are without knowing it). Neil Pearce (Pg. 34)		
OS.23 Health Impact Assessment (Pg. 36)	OS.24 PFCs & Health (Pg. 36)	S.7 Symposium Ubiquitous and participatory sensing for exposure assessment in environmental epidemiology. (Pg. 36)	S.8 Symposium Effects of transportation-related noise in light of correlated exposures to air pollution. (Pg. 37)
Coffee Break			
S.9 Symposium Studying long-term health effects of environmental disasters: Lessons from the past (Pg. 38)	OS.29 Genetics & Epigenetics (Pg. 38)	S.10 Symposium Challenges and Opportunities for using data for multiple pollutants in air pollution epidemiological studies (Pg. 39)	S.11 Symposium Organophosphate pesticides & neurodevelopment: Finding from NIEHS/EPA Funded Children's Environmental Health Centers. (Pg. 39)
Lunch			
PD.9 Environmental Exposures & Child Health. (Pg. 40)	PD.10 How to Estimate Exposures Early in Life: Different Options, Different Results? (Pg. 40)	PD.11 Lead & Health (Pg. 41)	PD.12 Occupational Health (Pg. 42)
Coffee Break			
OS.33 EMF/Mobile phones (Pg. 42)	S.13 Symposium Research on environmental health in the EU (organised by the European Commission) (Pg. 43)	S.14 Symposium Understanding air pollution in the era of Genome-Wide Association Studies (Pg. 43)	S.15 Symposium New health and exposure findings from a large US population exposed to high levels of PFOA. (Pg. 43)



Friday, September 16th

Room	Auditorium	Room 6	Room 5	Room 3
07:30 – 08:30 Early Morning Sessions				Grant writing and funding mechanisms for new investigators. Klea Katsouyanni, Joel Schwartz & How-ran Guo (Pg. 44)
08:30 – 09:30 Plenary Session	Room 3 Early exposures and later effects in life: Revisiting the Barker Hypothesis. Brenda Eskenazi. (Pg. 20 & 44) How can toxicology inform environmental epidemiology? A new approach to environmental health. Linda S. Birnbaum. (Pg. 21 & 44)			
09:30 – 11:00 Oral Sessions & Symposia	OS.34 Air Pollution & Cardiovascular Disease III (Pg. 44)	OS.35 Metals & Health II (Pg. 44)	OS.36 Occupational Health II (Pg. 45)	OS.37 Air Pollution & Reproductive Effects (Pg. 45)
11:00 – 11:30	Coffee Break			
11:30 – 13:00 Oral Sessions & Symposia	OS.39 Exposure Assessment Air Pollution III (Pg. 47)	OS.40 Pesticides & Health II (Pg. 47)	OS.41 Transport & Health II (Pg. 47)	OS.42 Arsenic & Health (Pg. 48)
13:00 – 14:00	Lunch			
14:00 – 16:00	POSTER VIEWING			
15:00 – 16:00 Poster Discussion			PD.13 Susceptibility to Air Pollution (Pg. 49)	PD.14 Improvement of Land Use Regression Models of Outdoor Air Pollution (Pg. 50)
16:00 – 16:30	Coffee Break			
16:30 – 18:00 Oral Sessions & Symposia	OS.45 Air Pollution & Other Outcomes II (Pg. 51)	OS.46 Climate Change Infectious (Pg. 51)	OS.47 Indoor Air & Health I (Pg. 52)	OS.48 Ionising & UV Radiation (Pg. 52)



Conference Schedule

Room 8	Room 4	Room 11	Room 12
Is environmental epidemiology precautionary? Philippe Grandjean (Pg. 44)	How to be an epidemiologist in large collaborations with toxicologists, geneticists and clinicians, and how to feed information and ideas back and fourth between these fields. Beate Ritz (Pg. 44)		
Coffee Break			
S.16 Symposium Scientific inference & public policy (Pg. 45)	OS.38 Food, Environment & Health (Pg. 46)	S.17 Symposium Climate change & health in the Mediterranean (Pg. 46)	S.18 Symposium Prenatal exposure to POPs and age of puberty (Pg. 46)
Coffee Break			
OS.43 Second Hand Smoke & Health (Pg. 48)	OS.44 Socio-economic Status & Health (Pg. 48)	S.19 Symposium Heat or heat waves? Does it matter which epidemiologists study? (Pg. 49)	S.20 Symposium Prevention of asthma and allergies in early life: The farm effect (Pg. 49)
Lunch			
PD.15 Methylation & Health (Pg. 50)	PD.16 We Use Exposure Biomarkers for Various Goals: Analysis of Time Trends/Spatial Trends. What are the Pitfalls? How to Overcome them?. (Pg. 50)	PD.17 Emerging Neurotoxins (Pg. 51)	PD.18 Environmental Determinants of Respiratory Disease in Children. (Pg. 51)
Coffee Break			
OS.49 Air Pollution & Neurocognitive Function (Pg. 52)	OS.50 Waste & Health (Pg. 53)	S.21 Symposium Facing (and overcoming) exposure assessment challenges in studies on water pollution and cancer (Pg. 53)	S.22 Symposium An interactive discussion of the newly-revised draft ISEE Ethics Guidelines: Key principles, case studies, & approaches to ethical challenges. (Pg. 53)

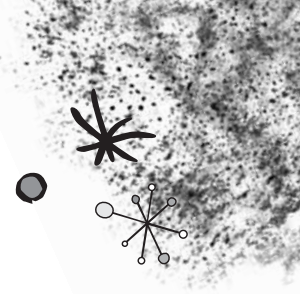


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Plenary Speakers and Sessions

Tuesday 13th evening ▶ Opening Ceremony

PROFESSOR CHRISTOPHER WILD

Christopher Paul Wild obtained his PhD in 1984 from the University of Manchester, UK whilst working on the production of monoclonal antibodies to detect low levels of methylated DNA bases. He was awarded a post-doctoral fellowship from the International Agency for Research on Cancer (IARC) to work in Lyon, France and subsequently a UK Royal Society European Exchange Fellowship to spend a year at the Netherlands Cancer Institute in Amsterdam. In 1987 he rejoined IARC as a staff scientist and later became Chief of the Unit of Environmental Carcinogenesis. In 1996 he was appointed to the Chair of Molecular Epidemiology at the University of Leeds, was Head of the Centre for Epidemiology and Biostatistics and later became Director of the Leeds Institute of Genetics, Health and Therapeutics in December 2005. He was elected Director of IARC from 1st January 2009. Dr Wild's main research interest is to understand the interplay between environmental and genetic risk factors in the causation of human cancer. He has particularly sought to apply biomarkers in population-based studies to this end.

Environment and Cancer – Research Priorities

The global burden of cancer is estimated to double in the next 20 years, with a majority of the increase occurring in the low and middle-income countries. These trends are in common with those for other non-communicable diseases, including cardiovascular disease and diabetes. Much could be achieved in terms of prevention based on implementation of current knowledge but at the same time the aetiology of many cancers remains obscure. This implies research into causes must parallel that into prevention; this combination should be one priority in the coming decade.

The majority of cancers have an environmental (broadly defined) aetiology but the precise contribution and interaction with other risk factors is difficult to elucidate. This is at least partially due to limitations in accurately measuring individual exposure, including exposures early in life. Recent advances in laboratory sciences (e.g. "omics" technologies) have been paralleled by an increased understanding of disease mechanisms (e.g. epigenetics). This provides a promising avenue for the improvement of environmental exposure assessment and an understanding of its consequences. In addition, this new generation of biomarkers can help establish the biological plausibility of exposure-disease associations, providing also a bridge from epidemiology to experimental data.

Much remains to be accomplished to provide the evidence-base for public health decisions on cancer prevention. Nevertheless, rapid advances in technology, the fresh understanding of mechanisms and the availability of large prospective cohort studies with associated biobanks provide exciting new opportunities. Prevention strategies based on these foundations demand an interdisciplinary approach whereby the term translational cancer research includes translation from the laboratory to the clinic and to the population. Such a "two-way translation" holds rich promise in combating the projected increases in global cancer burden (Wild CP, *Mutagenesis*, 24, 117-125, 2008; Wild CP, *Environ. Health*, 10, suppl. 1, S15, 2011).

PROF. FERRAN SAGARRA

Director, School of Architecture of Barcelona, Universitat Politècnica de Catalunya (UPC).

Ferran Sagarra (1952), Arch ETSAB (1976), Dr UPC (1991), Professor at the Department of Urban and Regional Planning, School of Architecture of Barcelona (ETSAB), Polytechnic University of Catalonia UPC, is currently the Director (Dean) of the School. He has held several academic and representative posts, both at the School and at the UPC and taught at the Institute of Urban Planning, University Montreal and in the Politecnico di Milano, has been lecturer in international laboratories and workshops. He was also a promoter of the URBAL program on access to land and social housing with metropolitan administrations in Europe and Latin America. He was a coordinator of the European program "Les places, un patrimoine européen" with six European universities and institutions. Actually coordinating COHABITAT, A Network on sustainability in Mediterranean architecture and urban development, with Toulouse and Lisbon universities. Sagarra was a curator of the Spanish Pavilion at the Venice Architecture Biennial (IMPURE-UPC). He was a consultant to the councillor of Housing, Barcelona City Council from 1995 to 2007 and councillor of the Institute for Metropolitan Institute for the Development Land and Property Management (IMPSOL) from 1982 since 1994. He has served as consultant to the editorial board of journals. He designed and built homes, equipment and civil urban works, and has developed several structural or special urban and territorial plans. He is the author of some books and chapters on the history of urbanism in Barcelona and on urban culture of the nineteenth and twentieth centuries including the work of Barcelona's city planner, Ildefons Cerdà.

Ildefons Cerdà. Barcelona city design and public health. Some words on the work of Ildefons Cerdà

Ildefons Cerdà i Sunyer (1815 - 1876) was the progressive Catalan urban planner who designed the 19th-century "extension" of Barcelona called the "Eixample" (currently the centre of Barcelona). When Barcelona, following public pressure, was allowed to demolish its city walls, Cerdà realized the need to plan the city's expansion and developed a modern integrated concept so that the "new extension" would become a modern, easy to live and healthy urban space unlike the congested, epidemic-prone old town within the walls, known at the time as "the Catalan Manchester". His unprecedented urban plan was developed at a time when there was an urgent need for solving an emerging social and environmental crisis of urban centres, characterised by urban crowding, rapid city growth, unhealthy housing and high mortality in the big towns of Europe. That's why he decided to write what is nowadays considered the first modern Urban Theory, focusing on key needs such as that of natural lighting and ventilation in homes, influenced by the sanitarian movement of that time, the need of effective waste disposal including good sewage system,

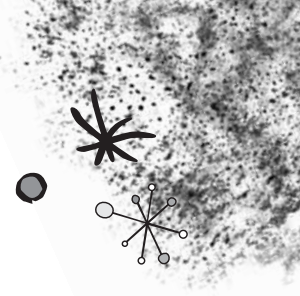


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and the need of promoting an easy and efficient movement of people, goods, energy, and information, as well as for green spaces in people's surroundings. His plans were applied in a realistic way, increasing from the very beginning the low height of buildings or, later on, implementing industrial and mercantile facilities in the place of the planned gardens within every city block. His vision of a network-oriented approach was far ahead of his time and was crucial in the development of Barcelona as a modern city until today. His plan shaped the today's 'Eixample', what's to say, provided the city with a strong layout to respond to future needs.

Wednesday 14th morning ▶ Plenaries

PROFESSOR JOEL KAUFMAN

Joel Kaufman, MD, MPH is a physician-epidemiologist, qualified in internal medicine and occupational medicine, educated at the University of Michigan, Boston City Hospital, and University of Washington. He joined the full-time UW faculty in 1997, and is jointly appointed as Professor in the Departments of Environmental & Occupational Health Sciences, Medicine, and Epidemiology. His current research focuses on environmental factors in cardiovascular disease. He is principal investigator of a major US EPA-funded prospective cohort study of air pollution and cardiovascular disease (The Multi-Ethnic Study of Atherosclerosis and Air Pollution, or "MESA Air"), and of a US NIEHS-funded Specialized Center for Research on Cardiovascular Disease and Traffic-Related Air Pollution. He also directs the UW Northlake Controlled Exposure Laboratory, a facility customized for experimental inhalation toxicology studies on health effects of combustion products including diesel exhaust. He emphasizes integration of the disciplines of epidemiology, exposure sciences, toxicology, and clinical medicine.

Environmental epidemiology in the context of translational science: Lessons from studies of air pollution and cardio-vascular diseases

"Translational science" is typically conceived in the context of medical sciences: a bridge between basic research discoveries and clinical practice. The archetypal application is pharmaceutical development. This "bench-to-bedside" emphasis now prevails with funding agencies and academic institutions. The concept of translational science can be difficult to apply but is also important in the environmental health arena; instead of influencing treatment, the goals are beneficial interventions and relevant policymaking in the interest of improving public health. Environmental epidemiologists are well-placed to straddle the research-to-practice bridge, free of challenges facing most environmental health "bench" scientists -by avoiding the need to adjust results from animal models to humans and by directly examining exposure concentrations in relevant ranges- but challenges persist. Research over the past twenty years concerning the association between air pollution and cardiovascular disease provides a useful lens to consider the incorporation of translational science concepts into the framework of environmental epidemiology.

PROFESSOR BERT BRUNEKREEF

Professor of Environmental Epidemiology and Director, Institute for Risk Assessment Sciences, Utrecht University.
Bert Brunekreef was born on March 10, 1953 in Utrecht, The Netherlands.

Academic education in Environmental Sciences at the University of Wageningen, the Netherlands, 1971-1979.

From 1979-2000, he has been employed by the Department of Environmental Health of the Wageningen University, first as assistant professor, since 1986 as associate professor, and since 1993 as full Professor.

In 1985, he obtained his Ph.D. degree in Environmental Epidemiology from the University of Wageningen.

In 1986/1987, he spent the academic year at the Harvard School of Public Health, studying health effects of air pollution episodes, and of living in damp homes.

In 1995, he served as the main organizer of the annual ISEE/ISEA conference which was held in the Netherlands that year. In 1998, he was chosen to be president of the ISEE for the years 2000 and 2001.

Since the early 1990s, prof. Brunekreef has coordinated four EU funded studies (PEACE, TRAPCA, AIRALLERG and AIRNET) in the field of air pollution, allergy and health. He now acts as a coordinator of the European Study of Cohorts for Air Pollution Effects (ESCAPE, 2008-2012). He has been partner in many other international collaborative studies. He has also been the PI on two studies funded by the US Health Effects Institute.

In 2000, his Wageningen Department was moved to Utrecht University where it merged with the existing RITOX Institute to create the 'Institute for Risk Assessment Sciences (IRAS)'. In 2005 IRAS absorbed the Veterinary Public Health Department, and prof. Brunekreef is Director of IRAS since January 1, 2005. IRAS has currently about 150 employees.

Prof. Brunekreef is Professor of Environmental Epidemiology in both the Faculties of Veterinary Medicine, and the Faculty of Medicine at the Utrecht University.

On several occasions, Bert Brunekreef served as advisor on national and international panels in the field of environmental health, including the Dutch National Health Council, of which he is a member, WHO and the US EPA.

Bert Brunekreef is co-author of more than 300 peer reviewed journal articles in the field of environmental epidemiology and exposure assessment. In recent years, he received the ISEE John Goldsmith award (2007), the European Lung Foundation Award (2007), an honorary doctorate of the Catholic University of Leuven, Belgium (2008), the Heineken Prize for Environmental Sciences (2008), and an Academy Professorship of the Dutch Royal Academy of Sciences (2009) to which he also was elected to become a member in 2009.

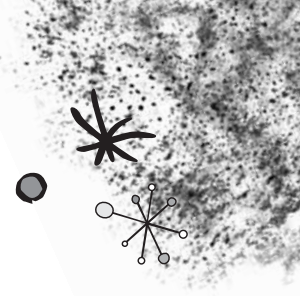


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Plenary Speakers and Sessions

Transport and Health

There are many links between transport and public health. Worldwide, death and injury from road traffic accidents are by far the most important, accounting for 1,3 million deaths and from 20-50 million non fatal injuries every year according to a recent WHO report. Some 90% of these occur in low to middle income countries where without proper preventive measures, a further increase is expected with the ongoing increase in road traffic.

Vehicles powered by internal combustion engines produce toxic air pollutants which adversely affect the health of traffic participants, subjects living close to busy roads and the population at large. Engineering controls on vehicles and fuels have mitigated some of these problems in the developed world. Again, the disease burdens are likely to be larger in low to middle income countries which have not yet been able to afford the most technologically advanced pollution controls. However, relatively few studies have been conducted in areas of the world likely to experience the worst problems.

Active modes of transport such as cycling and walking are being promoted in some developed countries as an alternative to driving cars. Although cyclists and pedestrians are at higher risk of inhaled pollutants -because of higher respiration rates- and of traffic accidents than car riders or users of public transport, there is general consensus that the health benefits of physical exercise associated with walking and cycling outweigh the pollution and accident risks.

Transport may also increase health risks of infection as especially in mass transport, transmission may easily occur. Disease vectors may also hitchhike their way to faraway places ("airport malaria"), and in an increasingly global market, foodborne diseases may also be more easily transported elsewhere.

Thursday 15th morning ▶ Plenary

PROFESSOR IRVA HERTZ-PICCIOTTO

Irva Hertz-Picciotto, Ph.D., is a professor of public health sciences. She received her B.A. degree in mathematics, M.A. in biostatistics, and Ph.D. and M.P.H. in epidemiology from UC Berkeley. After 12 years on the faculty at the University of North Carolina (UNC) at Chapel Hill, she returned to California to join UC Davis.

Her research interests are in environmental exposures involving metals, pesticides, PCBs and air pollution; pregnancy outcomes -specifically, spontaneous abortion, fetal growth and early child development; and epidemiologic methods- notably, left truncation in survival analysis, the "healthy worker survivor bias" timing problems, and use of epidemiologic data in quantitative risk assessment. Hertz-Picciotto chaired the U.S. Institute of Medicine-National Academy of Sciences Committee on the Health Effects in Vietnam Veterans of Exposure to Agent Orange and other Herbicides in 2000 and 2002. She currently serves on editorial boards for the American Journal of Epidemiology, Environmental Health Perspectives, and Epidemiology. She has served on scientific advisory boards for the state of California, the U.S. Environmental Protection Agency (EPA), the National Toxicology Program of the National Institute of Environmental Health Sciences (NIEHS), and the National Institute for Occupational Safety and Health (NIOSH). She was president of the international Society for Environmental Epidemiology in 2001-2002, and is now president-elect of the Society for Epidemiologic Research. Hertz-Picciotto directed the program in Reproductive Epidemiology at UNC Chapel Hill and is the deputy director of the Children's Center for Environmental Health at UC Davis, focused on autism and other neurodevelopmental disorders. She has taught courses on four continents, was dissertation adviser for 17 doctoral students -four of whom won prizes for work conducted as doctoral students- and was mentor for three dozen other Ph.D. students.

Keynote, John Goldsmith Award for Outstanding Contributions to Environmental Epidemiology.

Friday 16th morning ▶ Plenary

PROFESSOR BRENDA ESKENAZI

Dr. Brenda Eskenazi is the Jennifer and Brian Maxwell Professor of Maternal and Child Health and Epidemiology at the School of Public Health at the University of California, Berkeley. As a neuropsychologist and epidemiologist, she has spent more than 30 years examining the effects of environmental exposures on male and female fertility, pregnancy, and children's health and development and has studied numerous agents including caffeine, cigarette smoke, environmental tobacco smoke, benzene and other solvents, lead, manganese, dioxin, organochlorine and organophosphate pesticides, flame retardants, as well as other environmental agents. She is currently the Director of the Center for Environmental Research and Children's Health (CERCH) and the Principal Investigator for the CHAMACOS project, the Seveso Women's Health Study on dioxin exposure in Italy, the C-BASS study on benzene exposure in China, and a birth cohort study in South Africa on DDT and pyrethroids. She is a founding member of the International Society of Children's Health and the Environment (ISCHE).

Early exposures and later effects in life: Revisiting the Barker Hypothesis

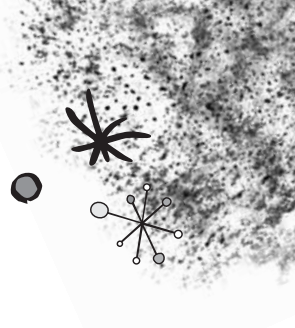
We have all heard the adage that "children are not little adults" but what does it mean for their adulthood when fetuses and children become exposed to environmental pollutants. What are the long-term costs and consequences of early exposure? The often-cited Barker hypothesis, which is based on observations of adult cardiovascular disease being related to early life exposure to poor nutrition, will be revisited in terms of the effects of early life exposure to environmental pollutants. How can assessment of early life exposure be incorporated into studies of adult-onset disease?



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PROFESSOR LINDA BIRNBAUM

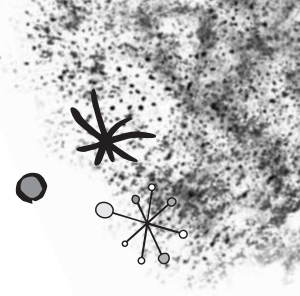
Linda S. Birnbaum is Director of the National Institute of Environmental Health Sciences (NIEHS) of the National Institutes of Health (NIH), and the National Toxicology Program. The Institute funds multidisciplinary biomedical research programs, prevention, and intervention efforts that encompass training, education, technology transfer, and community outreach. The NIEHS supports more than 1,000 research grants. A board certified toxicologist, Birnbaum has served as a federal scientist for 32 years. Prior to her appointment as NIEHS and NTP director, she spent 19 years at the Environmental Protection Agency where she directed the largest division focusing on environmental health research. Birnbaum has received many awards and recognitions, including election to the Institute of Medicine of the National Academies. She was vice president of the International Union of Toxicology, and former president of the Society of Toxicology. Dr. Birnbaum is the author of more than 700 peer-reviewed publications, book chapters, abstracts, and reports.

How can toxicology inform environmental epidemiology? A new approach to Environmental Health

The disciplines of environmental epidemiology and toxicology must work closely together on the challenges of addressing human relevance to existing experimental models by sharing techniques and approaches to fill relevant data gaps to improve public health. Research from toxicology has (1) provided solid mechanistic evidence to strengthen epidemiologic conclusions, (2) helped inform design of epidemiological studies by identifying windows of susceptibility (3) has led to new methods to identify interim phenotypes related to biological response to environmental exposures, and (4) has provided evidence for more complex dose response relationships that explain why various exposures have differing health effects.

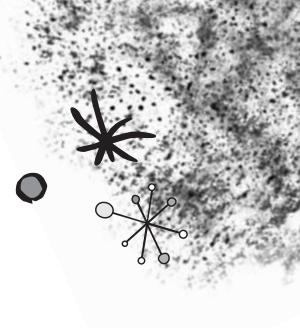
Challenges in environmental health sciences can be met by supporting collaborations among scientists across disciplines, by developing strategies to integrate new methods and technologies, and sharing results with broader audiences. At NIEHS, we have developed several programs and models to foster collaborative efforts between disciplines within extramural, intramural and the National Toxicology Programs.





Satellite Meetings and Workshops

Date	Title	Time	Room	Status	Contact
September 13	Crash Course in R: An introduction to R for environmental epidemiology	08:30-16:30	4	Open	Zev Ross Roger Peng zev@zevross.com
September 13	Conducting biologically based exposure assessment for epidemiology	13:00-17:00	9	Open	Tom Smith tsmith@hohp.harvard.edu
September 13	Neurodevelopment in children	13:00-17:00	6	Open	Lynn Goldman lynn.r.goldman@gmail.com
September 13	DAGviromental health: A (re)introduction to causal diagrams and their application in environmental epidemiology research	08:00-12:00	3	Open	Jennifer Weuve Marc Weisskopf jennifer_weuve@rush.edu
September 13	Pensando una agenda de investigación en Salud Ambiental para Latinoamérica: Compartamos un sur	08:30-17:00	5	Open	Fabian Mendez grupogesp@grupogesp.org
September 15	Multidisciplinary research within environmental epidemiology	18:00-19:30	3	Open	Maria Foraster mforaster@creal.cat
September 12 & 13	ESCAPE Annual Meeting	09:00-17:00	Barceló Sants Hotel	Closed	Bert Brunekreef b.brunekreef@uu.nl
September 13	Methods for investigating associations of weather and climate with health	09:00-17:00	8	Closed	Ben Armstrong ben.armstrong@lshtm.ac.uk
September 12 & 13	Agricultural Cohort (AGRICOH) Studies	12/Sept: 12:00-18:00 13/Sept: 09:00-16:00	CREAL Xipre	Closed	Joachim Schüz schuzj@iarc.fr
September 13	C8 Study	09:00-12:00	2	Closed	Tony Fletcher Tony.Fletcher@lshtm.ac.uk
September 13	OBELIX	08:00-16:30	CREAL Còrsega	Closed	Juliette Legler Greet Schoeters Greet.schoeters@vito.be
September 19 & 20	I4C Meeting	19/Sept: 09:00-17:00 20/Sept: 09:00-16:00	CREAL Auditorium	Closed	Gabriella Tikellis gabriella.tikellis@mcri.edu.au Carol H. Kasten kastenca@mail.nih.gov
September 20 & 21	Risk ASSETS	09:00-17:00	CREAL Rodes	Closed	Eirian Thomas eirian.thomas@hpa.org.uk
September 17	Working Group Meeting to share information about the new birth cohort studies that are planned or starting in different countries	09:00-17:00	CREAL Xipre	Closed	Ruth A. Etzel etzelr@who.int



Business Meetings

ISEE Executive Council and other ISEE Meetings

ISEE Council Meeting ▶ Room 1
Tuesday 13th September
13.00 – 17.00 hours

ISEE Council Meeting ▶ Room 1
Wednesday 14th September
07.15 – 08.30 hours

Scientific Planning Committee ISEE2012, South Carolina ▶ Room 3
Wednesday 14th September
13.30 – 14.15 hours

ISEE General Members Meeting ▶ Room 3
Wednesday 14th September
18.00 – 19.30 hours

ISEE Council Meeting ▶ Room 1
Thursday 15th September
07.15 – 08.30 hours

ISEE European Members Meeting ▶ Room 3
Thursday 15th September
13.15 – 14.00 hours

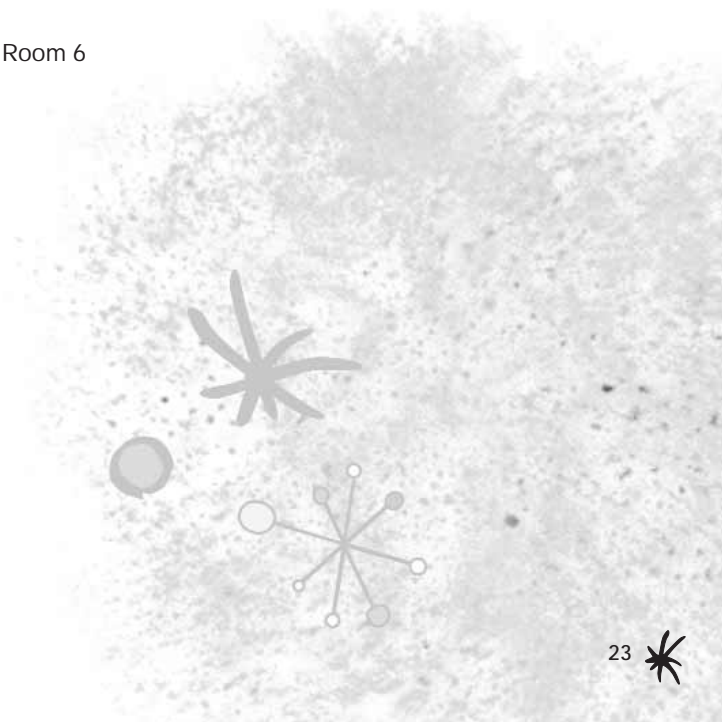
ISEE Council Meeting ▶ Room 1
Friday 16th September
07.15 – 08.30 hours

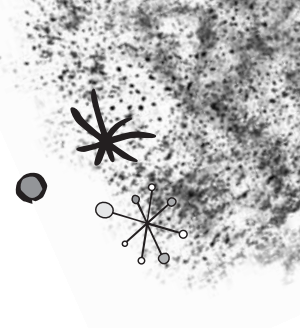
Other Meetings

NIEHS (Denise Lasko) ▶ Room 10
Wednesday 14th September
13.00 – 16.00 hours

Business Meeting ISCHE Group (Brenda Eskenazi, David Bellinger) ▶ Room 6
Wednesday 14th September
13.30 – 15.00 hours

Environment and Health Fund Reception (Ruth Ostrin) ▶ Room 9
Wednesday 14th September
19.30 – 21.00 hours





Detailed Conference Schedule

Tuesday, September 13th

- 17:30 – 18:30** **OPENING CEREMONY** ▶ Auditorium
 WELCOME. Professor Mark Nieuwenhuijsen and Professor Manolis Kogevinas. ISEE 2011 Chair and Co-chair
 WELCOME. Professor Dean Baker. ISEE President
 Dr. Boi Ruiz i Garcia. Minister of Health. Government of the Generalitat of Catalonia
 Invited Speaker: Professor Christopher P. Wild. International Agency for Research on Cancer, IARC, Lyon, France "ENVIRONMENT AND CANCER – RESEARCH PRIORITIES"
 Invited Speaker: Professor Ferran Sagarra. Director of the School of Architecture of Catalonia "ILDEFONSO CERDÀ, BARCELONA CITY DESIGN AND PUBLIC HEALTH"
-
- 18:30 – 20:00** **WELCOME COCKTAIL & WINE TASTING**
STUDENT POSTER AWARD

Wednesday, September 14th

- 07:30 – 08:30** **EARLY MORNING SESSIONS**
- ▶ Room 3
CLASSICS IN ENVIRONMENTAL EPIDEMIOLOGY: THE BARCELONA SOY BEAN OUTBREAK
 Josep-Maria Antó
 - ▶ Room 8
DETERMINING WHEN EPIDEMIOLOGY CAN (AND CANNOT) HELP TO ASSESS SMALL EFFECTS OF ENVIRONMENTAL EXPOSURES
 David Savitz
 - ▶ Room 4
GENE X ENVIRONMENT INTERACTION: DO WE FAIL TO IDENTIFY INFLUENTIAL ENVIRONMENTAL DETERMINANTS OF HEALTH BY IGNORING GENES?
 Irva Hertz-Picciotto
-
- 08:30 – 09:00** **PLENARY SESSION 1** ▶ Auditorium
ENVIRONMENTAL EPIDEMIOLOGY IN THE CONTEXT OF TRANSLATIONAL SCIENCE: LESSONS FROM STUDIES OF AIR POLLUTION AND CARDIOVASCULAR DISEASES
 Keynote: Joel Kaufman
 Chairs: Mark Nieuwenhuijsen & Annette Peters
-
- 09:00 – 09:30** **PLENARY SESSION 2** ▶ Auditorium
TRANSPORT AND HEALTH
 Keynote: Bert Brunekreef
 Chairs: Mark Nieuwenhuijsen & Annette Peters
-
- OS.1**
09:30 – 11:00 **AIR POLLUTION AND OTHER OUTCOMES I**
 Room 6
 Chairs: Michelle Bell & Bart Ostro
- O-0001 CHRONIC EXPOSURE TO TRAFFIC POLLUTION IS ASSOCIATED WITH REDUCED GLOMERULAR FILTRATION RATE
 Shih-Ho Lue, Gregory A. Wellenius, Elissa H. Wilker, Murray A. Mittleman.
- O-0002 DIABETES INCIDENCE AND LONG-TERM EXPOSURE TO AIR POLLUTION: A COHORT STUDY
 Zorana Andersen, Bendix Carstensen, Martin Hvidberg, Steen Jensen, Matthias Ketzel, Steffen Loft, Anne Tjønneland, Kim Overvad, Ole Raaschou-Nielsen, Mette Sørensen.
- O-0003 AIR POLLUTION FROM TRAFFIC AND CANCER INCIDENCE IN A DANISH COHORT
 Ole Raaschou-Nielsen, Zorana Andersen, Martin Hvidberg, Steen S Jensen, Matthias Ketzel, Mette Sørensen, Johnni Hansen, Steffen Loft, Kim Overvad, Anne Tjønneland.
- O-0004 ETHICAL CHALLENGES IN EPIDEMIOLOGIC STUDIES ON AIR POLLUTION AND HEALTH
 Jouni Jaakkola.

- O-0005 AIRWAY AND CIRCULATORY PRO-INFLAMMATORY EFFECTS OBSERVED IN HEALTHY VOLUNTEERS AFTER AMBIENT AIR POLLUTION EXPOSURE: RAPTES HEALTH EFFECT ASSESSMENT
Maaïke Steenhof, Maciej Strak, Krystal Godri, Ilse Gosens, Flemming Cassee, Frank Kelly, Roy Harrison, Raymond Pieters, Gerard Hoek, Nicole Janssen.
- O-0006 LONG-TERM EXPOSURE TO AMBIENT AIR POLLUTION AND LUNG CANCER RISK IN CANADA
Perry Hystad, Paul Demers, Kenneth Johnson, Michael Brauer.

OS.2 EXPOSURE ASSESSMENT I

09:30 – 11:00

Room 6

Chairs: Tom Keegan & Michael Wilhelm

- O-0007 VALIDATING A PHARMACOKINETIC MODEL OF POLYCHLORINATED BIPHENYLS (PCBs) USING BLOOD LEVELS IN CHILDREN FROM BIRTH UP TO 22 MONTHS OF AGE
Marc-André Verner, Kinga Lancz, Tomas Trnovec, Dean Sonneborn, Irva Hertz-Picciotto, Michel Charbonneau, Sami Haddad.
- O-0008 CHALLENGES AFFECTING THE INTERPRETATION OF BIOMONITORING DATA IN EPIDEMIOLOGIC STUDIES
Antonia Calafat, Kayoko Kato, Manori Silva, Xiaoyun Ye.
- O-0009 IMPACT OF DUST FROM MULTIPLE MICROENVIRONMENTS AND DIET ON PENTA-BDE BODY BURDEN
Deborah Watkins, Michael McClean, Alicia Fraser, Heather Stapleton, Andreas Sjödin, Thomas Webster.
- O-0010 EXPOSURE TO ENVIRONMENTAL POLLUTION IN THE GENERAL FLEMISH POPULATION: RESULTS OF THE SECOND FLEMISH ENVIRONMENT AND HEALTH STUDY
Elly Den Hond, Willy Baeyens, Liesbeth Bruckers, Ann Colles, Ilse Loots, Bert Morrens, Vera Nelen, Isabelle Sioen, Nicolas Van Larebeke, Greet Schoeters.
- O-0011 PREDICTORS AND TEMPORAL VARIABILITY OF URINARY PARABEN CONCENTRATIONS IN MEN AND WOMEN BEFORE AND DURING PREGNANCY
Kristen Smith, Antonia Calafat, Jennifer Ford, Myra Keller, Russ Hauser.
- O-0012 INTERRELATIONS BETWEEN BLOOD SERUM LEVELS OF PERSISTENT ORGANIC POLLUTANTS AND THEIR DETERMINANTS IN INUIT, POLISH AND UKRAINIAN MALES (CLEAR PROJECT)
Virissa Lenters, Bo AG Jonsson, Cathrine Thomsen, Lars Rylander, Gunnar Toft, Jens Peter Bonde, Aldert H Piersma, Roel Vermeulen, Dick Heederik.

OS.3 POPs AND HEALTH I

09:30 – 11:00

Room 5

Chairs: Germaine Buck Louis & Jens-Peter Bonde

- O-0013 A NESTED CASE-CONTROL STUDY OF INTRAUTERINE EXPOSURE TO PERSISTENT ORGANOCHLORINE POLLUTANTS IN RELATION TO RISK OF HYPOSPADIA
Anna Rignell-Hydbom, Christian H Lindh, Joakim Dillner, Bo AG Jönsson, Lars Rylander.
- O-0014 A META-ANALYSIS OF CORD SERUM CONCENTRATIONS OF PCB AND BIRTH WEIGHT
Jens Peter Bonde, Eva Govarts.
- O-0015 THE EFFECT OF PREVIOUS BREASTFEEDING ON BIRTH WEIGHT OF SUBSEQUENT CHILD
Merete Eggesbo, Leda Chatzi, Monica Guxens, Maria Vassilaki, Theano Roumeliotaki, Jordi Sunyer, Manolis Kogevinas.
- O-0016 ASSOCIATION BETWEEN POP EXPOSURE AND TYPE 2 DIABETES IN THE HELSINKI BIRTH COHORT STUDY
Riikka Airaksinen, Panu Rantakokko, Johan G Eriksson, Paul Blomstedt, Eero Kajantie, Hannu Kiviranta.
- O-0017 ORGANOCHLORINE EXPOSURE DURING PREGNANCY AND NEURODEVELOPMENT IN PRESCHOOL CHILDREN
Nerea Lertxundi, Nerea Lertxundi, Aitana Lertxundi, Mireia Gascón, Mónica Guxens, Marisa Rebagliato, Ferran Ballester, Joan Grimalt, Eduardo Fano, Jesús Ibarluzea.
- O-0018 PERSISTENT ORGANIC POLLUTANTS AND ENDOMETRIOSIS; IMPORTANCE OF BIOLOGIC MEDIA FOR DEFINING EXPOSURE THE ENDO STUDY
Germaine Buck Louis, C. Matthew Peterson, Mary Croughan, Zhen Chen, Rajeshwari Sundaram, Mary Hediger, Joseph Stanford, Michael Varner, Linda Giudice, Victor Fujimoto.

OS.4 INFECTIOUS DISEASE

9:30 – 11:00

Room 3

Chairs: Silvia de Sanjosé & Wong Chit Ming

- O-0019 MODELLING AND FORECASTING DENGUE FEVER INCIDENCE IN MALAYSIA BY INTERPOLATING ENVIRONMENTAL DATA
Balvinder Gill, Jianguo Xiao, Grace Yun, Shannon Carter, Allison Imrie, Geoffrey Shellam.
- O-0020 EFFECTS OF ENVIRONMENTAL FACTORS ON INFLUENZA SEASONALITY IN THE SUBTROPICS
Lin Yang, King Pan Chan, Ping Yan Chen, Jian Feng He, Chun Quan Ou, JS Malik Peiris, Chit Ming Wong.
- O-0021 LEGIONELLA SPP. AND LEGIONELLOSIS IN NEW ZEALAND, 2005-2010: DISEASE EPIDEMIOLOGY AND ENVIRONMENTAL SURVEILLANCE
Frances Graham, Simon Kingham, Paul White.
- O-0022 EFFECT MODIFICATIONS OF SMOKING ON RISK OF MORTALITY ASSOCIATED WITH INFLUENZA
Chit Ming Wong, Lin Yang, King Pan Chan, Wai Man Chan, Liang Song, Hak Kan Lai, Thuan Quoc Thach, Lai Ming Ho, Tai Hing Lam, JS Malik Peiris.
- O-0023 EPIDEMIOLOGIC AND MICROBIOLOGIC ASSOCIATIONS BETWEEN FLIES AND DIARRHEA
Stefan Collinet-Adler, Sudhir Babji, Rajiv Sarkar, Deepthi Kattula, Honorine Ward, Gangandeep Kang, Vinohar Balraj, Elena Naumova.
- O-0024 DECREASED VACCINATION RESPONSES IN CHILDREN WITH PRENATAL AND POSTNATAL EXPOSURES TO IMMUNOTOXICANTS
Philippe Grandjean, Elisabeth Wreford Andersen, Esben Budtz-Joergensen, Pal Weihe, Flemming Nielsen, Carsten Heilmann.

OS.5 9:30 – 11:00	CANCER Room 8 Chairs: Paolo Vineis & Debra Silverman
O-0025	SERUM DIOXIN CONCENTRATIONS AND CANCER RISK IN THE SEVESO WOMEN'S HEALTH STUDY <u>Marcella Warner</u> , Paolo Mocarelli, Steven Samuels, Larry Needham, Donald Patterson, Paolo Brambilla, Brenda Eskenazi.
O-0026	DNA METHYLATION IN BLOOD LYMPHOCYTES AND RISK OF LUNG CANCER <u>Sofia Pavanello</u> , Andrea Baccarelli, Michele Carugno, Letizia Tarantini, Laura Cantone, Valentina Bollati, Kim Overvad, Anne Tjønneland, Ulla Vogel, Angela Cecilia Pesatori.
O-0027	MATERNAL CONSUMPTION OF COFFEE AND TEA DURING PREGNANCY AND RISK OF CHILDHOOD ALL: RESULTS FROM AN AUSTRALIAN CASE-CONTROL STUDY <u>Elizabeth Milne</u> , Jill Royle, Lisa Bennett, Nicholas de Klerk, Helen Bailey, Carol Bower, Margaret Miller, John Attia, Rodney Scott, Bruce Armstrong.
O-0028	MATERNAL SMOKING, POLYMORPHISMS IN CYP1A1, CYP2E1, EPHX1, NAT2, NQO1, AND CHILDHOOD ACUTE LEUKEMIA <u>Audrey Bonaventure</u> , Stéphanie Bellec-Goujon, Laurent Orsi, Denis Hémon, Jacqueline Clavel.
O-0029	A COMPREHENSIVE ANALYSIS OF DNA METHYLATION IN HEAD AND NECK SQUAMOUS CELL CARCINOMA INDICATES DIFFERENCES BETWEEN VIRAL AND CHEMICAL INDUCED CARCINOGENESIS <u>Justin Colacino</u> , Emily Light, Dana Dolinoy, Sonia Duffy, Maureen Sartor, Douglas Chepeha, Jeremy Taylor, Gregory Wolf, Thomas Carey, Laura Rozek.
O-0030	METALS, ARSENIC AND SELENIUM AND RISK OF PANCREATIC CANCER <u>Andre Amaral</u> , Miquel Porta, Debra T Silverman, Roger L Milne, Manolis Kogevinas, Nathaniel Rothman, Kenneth P Cantor, Tomas Lopez, Francisco X Real, Nuria Malats.

OS.6 9:30 – 11:00	NOISE AND HEALTH Room 4 Chairs: Nino Künzli & Anna Hansell
O-0031	CARDIOVASCULAR HOSPITAL ADMISSIONS IN RELATION TO AIRCRAFT NOISE, ROAD NOISE AND AIR POLLUTION IN WEST LONDON <u>Anna Hansell</u> , Marta Blangiardo, Lea Fortunato, Sarah Floud, Kees de Hoogh, Sean Beevers, Paul Elliott, Heathrow Study Team Small Area Health Statistics Unit.
O-0032	TRAFFIC NOISE HEALTH EFFECTS AND THE BENEFIT OF ACCESS TO 'QUIET SIDE' <u>Theo Bodin</u> , Maria Albin, Evy Öhrström, Jonas Björk, Jonas Ardö.
O-0033	TRAFFIC NOISE AND CARDIOVASCULAR HEALTH IN SWEDEN: THE ROADSIDE STUDY <u>Charlotta Eriksson</u> , Mats E Nilsson, Saskia Willers, Lars Gidhagen, Tom Bellander, Göran Pershagen.
O-0034	AIRCRAFT NOISE EXPOSURE AND COGNITIVE PERFORMANCE IN CHILDREN LIVING NEAR THE CIAMPINO AIRPORT IN ROME <u>Carla Ancona</u> , Francesca Mataloni, Marta Bacigalupi, AnnaClara Cruciani, Giovanna Todini, Eleonora Zirro, Marina Davoli, Francesco Forastiere, Study Team SAMBA.
O-0035	VALIDATED MEASURES OF CHRONIC OCCUPATIONAL NOISE ON HYPERTENSION DIAGNOSIS <u>Jane Clougherty</u> , Deron Galusha, Peter Rabinowitz, Mark Cullen.
O-0036	ROAD TRAFFIC NOISE, AIR POLLUTION AND HYPERTENSION IN OSLO, NORWAY <u>Bente Oftedal</u> , Per Nafstad, Per E. Schwarze, Gunn Marit Aasvang.

S.1 09:30 – 11:00	SYMPOSIUM ▶ SUSTAINABLE TRANSPORT AND HEALTH: INTEGRATED ASSESSMENTS FOR SHIFTING THE PARADIGM FOR CYCLING AND WALKING Room 11 Chairs: Sonja Kahlmeier & Audrey de Nazelle
S-0001	TRANSPORTATION, AIR POLLUTION AND PHYSICAL ACTIVITY: INTEGRATED HEALTH IMPACT ASSESSMENT OF THE BIKE SHARING SYSTEM 'BICING' IN BARCELONA, SPAIN <u>David Rojas-Rueda</u> , de Nazelle Audrey, Marko Tainio, Mark Nieuwenhuijsen.
S-0002	HEALTH IMPACT MODELLING OF ALTERNATIVE ACTIVE TRAVEL VISIONS FOR ENGLAND AND WALES USING A TRANSPORT AND HEALTH INTEGRATED MODELLING TOOL (THIM) <u>James Woodcock</u> , Moshe Givoni, Phil Edwards, Zhiwei Cao.
S-0003	WORKING WITH NON-HEALTH SECTORS: A REVIEW OF EXPERIENCES WITH ECONOMIC APPROACHES TO PROMOTE CYCLING AND WALKING: THE HEALTH ECONOMIC ASSESSMENT TOOL (HEAT) Francesca Racioppi, <u>Sonja Kahlmeier</u> , Thomas Gotschi, Nick Cavill, Charlie Foster, Paul Kelly, Max Herry, Harry Rutter.
S-0004	OBTAINING HEALTH FROM CLIMATE CHANGE MITIGATION POLICIES IN TRANSPORT USING SCIENCE TO INFORM POLICIES <u>Carlos Dora</u> , Jamie Hoskins, Elaine Fletcher. Brief introduction of accompanying Poster Session. General discussion, focusing on challenges and future directions for research.

S.2 09:30 – 11:00	SYMPOSIUM ▶ EMERGING EVIDENCE ON EARLY LIFE ARSENIC EXPOSURE, BIOMARKERS AND CLINICAL RESPONSE Room 12 Chairs: Yu Chen & Margaret Karagas
S-0005	EFFECTS OF ARSENIC EXPOSURE ON CHILD IMMUNE RESPONSE AND COGNITIVE DEVELOPMENT <u>Marie Vahter</u> , Sultan Ahmed, Jena Hamadani, Renee Gardner, Anisur Rahman, Fahmida Tofail, Rubana Raqib.

- S-0006 EPIGENETIC EFFECTS OF IN-UTERO ARSENIC EXPOSURE
Carmen Marsit, Michele Avissar-Whiting, Devin Koestler, E. Andres Houseman, Margaret Karagas.
- S-0007 URINARY ARSENIC AS A BIOMARKER OF IN UTERO EXPOSURE VIA MATERNAL DRINKING WATER AND DIET: RESULTS FROM A US PREGNANCY COHORT
Diane Gilbert-Diamond, Kathryn Cottingham, Joann Gruber, Tracy Punshon, Vicki Sayarath, Jay Gandolfi, Emily Baker, Brian Jackson, Carol Folt, Margaret Karagas.
- S-0008 ARSENIC EXPOSURE AND BLOOD INFLAMMATORY MARKERS OF CARDIOVASCULAR DISEASE
Yu Chen, Muhammad Kibriya, Farzana Jasmine, Mengling Liu, Vesna Slavkovich, Tariqul Islam, Parvez, Habibul Ahsan.
- S-0009 ADVERSE EFFECTS OF ARSENIC EXPOSURE ON MOTOR FUNCTION AMONG CHILDREN IN BANGLADESH
Faruque Parvez, Gail A. Wasserman, Pam Factor-Litvak, Xinhua Liu, Vesna Slavkovich, Abu B. Siddique, Diane Levy, Jennie Kline, Habibul Ahsan, Joseph Graziano.
- S-0010 GENETIC SUSCEPTIBILITY TO ARSENIC EXPOSURE AND PREVALENT SKIN LESIONS IN BANGLADESH
Maria Argos, Mohammed Kibriya, Habibul Ahsan, Yu Chen, Faruque Parvez, Vesna Slavkovich, Joseph Graziano.
Panel discussion

09:30 – 11:00 COFFEE BREAK

OS.7 AIR POLLUTION AND CARDIOVASCULAR DISEASE I

- 11:30 – 13:00**
Auditorium
Chairs: Gregory Wellenius & Marie O Neil
- O-0037 ASSOCIATION BETWEEN AMBIENT AIR POLLUTION AND BLOOD MARKERS OF INFLAMMATION AND COAGULATION IN INDIVIDUALS WITH POTENTIAL GENETIC PREDISPOSITION ON THE DETOXIFYING PATHWAY
Regina Rückerl, Alexandra Schneider, Regina Hampel, Ute Kraus, Wolfgang Koenig, Richard Phipps, David Diaz-Sanchez, Susanne Breitner, Petra Belcredi, Annette Peters.
- O-0038 A COHORT STUDY OF TRAFFIC-RELATED AIR POLLUTION AND CARDIOVASCULAR MORTALITY AMONG ADULTS IN THREE CANADIAN CITIES
Hong Chen, Mark Goldberg, Richard Burnett, Michael Jerrett, Amanda Wheeler, Paul Villeneuve.
- O-0039 COMPARISON OF PM MASS CONCENTRATION AND PM OXIDATIVE POTENTIAL EXPOSURE METRICS IN RELATION TO CAROTID INTIMA MEDIA THICKNESS WITHIN THE WHITEHALL II COHORT
Cathryn Tonne, Jeff Yanosky, Sean Beevers, Paul Wilkinson, Frank Kelly.
- O-0040 OXIDIZED-LDL AND CARBON LOAD OF LUNG MACROPHAGES
Lotte Jacobs, Jan Emmerechts, Marc Hoylaerts, Chantal Mathieu, Peter Hoet, Benoit Nemery, Tim Nawrot.
- O-0041 LONG-TERM EXPOSURE TO TRAFFIC PARTICLES AND REPEATED MEASURES OF ATHEROSCLEROTIC PROGRESSION
Elissa Wilker, Brent Coull, Alexandros Gryparis, Pantel Vokonas, Joel Schwartz, David Sparrow.
- O-0042 EXPOSURE TO AMBIENT FINE PARTICULATE MATTER ALTERS CEREBRAL BLOOD FLOW IN THE ELDERLY: THE MOBILIZE BOSTON STUDY
Gregory Wellenius, Luke Boyle, Elissa Wilker, Brent Coull, Petros Koutrakis, Lewis Lipsitz.

OS.8 WATER CONTAMINANTS AND HEALTH I

- 11:30 – 13:00**
Room 6
Chairs: Sylvaine Cordier & Cristina Villanueva
- O-0043 INCREASED RISK OF CHILDHOOD LEUKEMIA IN COMMUNITIES IMPACTED BY HYDRAULIC FRACTURING IN THE MARCELLUS SHALE
Stephanie Moller Hikel, Katherine Moon, April Zambelli-Weiner.
- O-0044 ASSOCIATION BETWEEN A URINARY BIOMARKER OF PRENATAL EXPOSURE TO DISINFECTION BY-PRODUCTS AND ADVERSE PREGNANCY OUTCOMES
Nathalie Costet, Ronan Garlantézec, Christine Monfort, Florence Rouget, Cécile Chevrier, Sylvaine Cordier.
- O-0045 THE EFFECT OF DISINFECTION BY-PRODUCTS, WATER SOURCE, AND TYPE OF DISINFECTION IN PREGNANCY LOSS IN MASSACHUSETTS
Zorimar Rivera-Núñez, Michael Wright.
- O-0046 COHORT OF NORWAY: ACIDIC DRINKING WATER AND THE RISK OF FOREARM-FRACTURE
Cecilie Dahl, Anne Johanne Sogaard, Grethe Tell, Trond Peder Flaten, Truls Krogh, Geir Aamodt.
- O-0048 TRIHALOMETHANE LEVELS IN RELATION TO RATES OF STILLBIRTH AND LOW BIRTH WEIGHT: AN INTERVENTION STUDY
Nina Iszatt, Mark J. Nieuwenhuijsen, James Bennett, Mireille B. Toledano.
- O-0047 MATERNAL EXPOSURE TO DISINFECTION BY-PRODUCTS DURING PREGNANCY AND MICRONUCLEI IN MATERNAL AND CORD BLOOD LYMPHOCYTES
Leslie Stayner, Evridiki Patelarou, Marie Pedersen, Ilse Decordier, Eleni Fthenou, Leda Chatzi, Mark Nieuwenhuijsen, Euripides G. Stephanou, Micheline Kirsch-Volders, Manolis Kogevinas.

OS.9 INDOOR AIR AND HEALTH I

- 11:30 – 13:00**
Room 5
Chairs: Jan-Paul Zock & Adetoun Mustapha
- O-0049 ORGANOPHOSPHATE TRIESTERS IN HOUSE DUST AND ITS RELATION TO ALLERGIC SYMPTOMS
Atsuko Araki, Tomoya Takeda Ayako Kanazawa, Ikue Saito, Kanehisa Morimoto Kunio Nakayama, Eiji Shibata, Masatoshi Tanaka, Tomoko Takigawa, Takesumi Yoshimura Hisao Chikara, Yasuaki Saijo, Reiko Kishi.
- O-0050 EXPOSURE TO FORMALDEHYDE INCREASES THE INCIDENCE OF LOWER RESPIRATORY INFECTIONS IN INFANTS FINDINGS FROM THE PARIS BIRTH COHORT
Céline Roda, Isabelle Kousignian, Chantal Guihenneuc-Jouyau, Jocelyne Just, Isabelle Momas.

- O-0051 CALCULATING THE EXPOSURE OF INFANTS AND CHILDREN TO PARTICULATE MATTER FROM BIOMASS FUELS IN THE GAMBIA
Kathie Dionisio, Stephen Howie, Francesca Dominici, Kimberly Fornace, Richard Adegbola, John Spengler, Majid Ezzati.
- O-0052 IMPACT OF AN IMPROVED BIOMASS STOVE (PATSARI) INTERVENTION ON CHILDREN'S HEALTH
Astrid Schilmann, Karina Ramírez-Sedeño, Horacio Rlojas-Rodríguez, Isabelle Romieu, Rogelio Pérez-Padilla.
- O-0053 FREQUENT USE OF HOUSEHOLD CLEANING SPRAYS AND DECREASES IN HEART RATE VARIABILITY IN SAPALDIA
Amar Mehta, Martin Adam, Emmanuel Schaeffner, Jean-Michel Gaspoz, Thierry Rochat, Christian Schindler, Joel Schwartz, Jan-Paul Zock, Nino Künzli, Nicole Probst-Hensch.
- O-0054 IMPACT OF AN INDOOR COOK STOVE INTERVENTION ON MEASURES OF SYSTEMIC INFLAMMATION
Maggie L. Clark, Annette M. Bachand, Judy M. Heiderscheidt, David Diaz-Sanchez, Bevin Luna, John Volckens, Stephen J. Reynolds, Lucas M. Neas, Jennifer L.

OS.10 CHILD HEALTH

11:30 – 13:00

Room 3

Chairs: Fabian Mendez & Dean Baker

- O-0055 OCCUPATIONAL SOLVENT EXPOSURE DURING PREGNANCY AND CHILD BEHAVIOR AT AGE TWO IN THE PELAGIE COHORT
Fabienne Pelé, Gina Muckle, Nathalie Costet, Ronan Garlantézec, Christine Monfort, Luc Multigner, Florence Rouget, Sylvaine Cordier.
- O-0056 EUROPEAN BIRTH COHORTS WITH ENVIRONMENTAL EXPOSURE DATA: THE ENRIECO INVENTORY AND RECOMMENDATIONS
Martine Vrijheid, Mark Nieuwenhuijsen, Maribel Casas.
- O-0057 ETHYLENE OXIDE HEMOGLOBIN ADDUCTS AND BIRTH WEIGHT. THE NEWGENERIS EUROPEAN STUDY
Silvia Agramunt, Marie Pedersen, Hans von Stedingk, Lisbeth E. Knudsen, Leslie Stayner, Jos Kleinjans, Dan Segerbäck, Margareta Törnqvist, Manolis Kogevinas.
- O-0058 INTERNATIONAL COORDINATION IN BIRTH COHORTS
Eisaku Toda, Kei Mori, Takeo Fujiwara, Toshihiro Kawamoto, Hiroshi Nitta, Hiroshi Satoh.
- O-0059 HEMOGLOBIN ADDUCTS IN CORD BLOOD FROM ACRYLAMIDE, ITS METABOLITE GLYCIDAMIDE AND BIRTH OUTCOMES
Marie Pedersen, Hans von Stedingk, Leda Chatzi, Margareta Haugen, Silvia Agramunt, Lisbeth E. Knudsen, Sarah Fleming, Jos Kleinjans, Margareta Törnqvist, Manolis Kogevinas.
- O-0060 THE NIEHS/EPA CHILDREN'S ENVIRONMENTAL HEALTH AND DISEASE PREVENTION RESEARCH CENTERS: MORE THAN A DECADE OF INNOVATIVE RESEARCH ON IMPORTANT CHALLENGES IN ENVIRONMENTAL EPIDEMIOLOGY
Richard Callan, Nica Louie, Kimberly Gray.

OS.11 CLIMATE CHANGE AND HEALTH

11:30 – 13:00

Room 8

Chairs: Colin Butler & Erik Svendsen

- O-0061 A SCREENING TOOL FOR CLIMATE CHANGE POPULATION VULNERABILITY ASSESSMENTS
Paul English, Max Richardson, Rachel Morello-Frosch, Manuel Pastor, Jim Sadd, Michael Jerrett, William Jesdale.
- O-0062 IMPACT OF CLIMATE CHANGE ON OZONE INDUCED MORTALITY IN EUROPE
Hans Orru, Christofer Åström, Camilla Andersson, Kristie Ebi, Joakim Langner, Bertil Forsberg.
- O-0064 DETECTION AND ATTRIBUTION OF HEALTH EFFECTS TO GLOBAL CLIMATE CHANGE
Kristie Ebi, Sari Kovats.
- O-0065 DO RESIDENTS OF SPRAWLING U.S. METROPOLITAN AREAS EXPERIENCE GREATER HEAT -AND AIR POLLUTION-RELATED MORTALITY?
Tegan Boehmer, Brian Stone, Dana Habeeb, Jason Vargo, Fuyuen Yip.
- O-0066 CLIMATE CHANGE AND 'ONE HEALTH': A CASE STUDY IN CALIFORNIA'S GREEN ECONOMY
MC. Tirado Von Der Pahlen, C Dora, E Fletcher, R Salsburg.
- O-0063 THE ETHICAL DIMENSIONS OF A CHANGING CLIMATE
Colin Soskolne.

OS.12 GREEN SPACE AND HEALTH

11:30 – 13:00

Room 4

Chairs: Chris Gidlow & Payam Dadvand

- O-0067 ASSOCIATIONS BETWEEN GREENSPACE AND MORTALITY IN A POPULATION BASED COHORT OF 573,834 ADULTS IN ONTARIO, CANADA
Paul Villeneuve, Michael Jerrett, Jason Su, Mark Goldberg, Hong Chen, Rick Burnett.
- O-0068 GREEN SPACE AND PHYSICAL ACTIVITY: RELATIONSHIPS IN SCOTLAND
Katherine Ord, Richard Mitchell, Jamie Pearce.
- O-0069 DEVELOPMENT OF A QUALITY ASSESSMENT TOOL FOR 'DOORSTEP'GREEN SPACE IN DEPRIVED URBAN COMMUNITIES
Christopher Gidlow, Naomi Ellis.
- O-0070 GREEN CITIES AND HEALTH: A QUESTION OF SCALE?
Elizabeth Richardson, Richard Mitchell, Terry Hartig, Sjerp de Vries, Thomas Astell-Burt, Howard Frumkin.
- O-0071 REVIEW OF METHODS AND APPROACHES USED TO EVALUATE HEALTH INTERVENTIONS IN NATURAL ENVIRONMENTS: A CONTRIBUTION TO THE DEVELOPING GREEN SPACE AND HEALTH EVIDENCE BASE
Aileen Marshall Brown, Lucy Johnston.

O-0072 GREEN SPACE, HEALTH INEQUALITY, AND PREGNANCY
Payam Dadvand, Audrey de Nazelle, Francesc Figueras, Xavier Basagaña, Jason Su, Elmira Amoly, Michael Jerrett, Martine Vrijheid, Jordi Sunyer, Mark J Nieuwenhuijsen.

S.3 SYMPOSIUM ▶ ASSESSMENT OF LONG-TERM EXPOSURE TO AIR POLLUTION IN 37 STUDY AREAS IN EUROPE USING A HARMONIZED APPROACH: THE ESCAPE PROJECT

11:30 – 13:00 Room 11

Chairs: Tom Bellander & Michael Jerrett

S-0011 VARIATION AND LAND USE REGRESSION MODELS FOR PM₁₀, PM_{2.5} AND SOOT CONCENTRATIONS IN 19 EUROPEAN STUDY AREAS

Marloes Eeftens, Rob Beelen, Stephanie von Klot, Josef Cyrys, Ulrich Quass, Dorothea Sugiri, Mark Nieuwenhuijsen, Audrey de Nazelle, Gerard Hoek, On behalf of the ESCAPE WP2 Group.

S-0012 VARIATION OF NO₂ and NO_x CONCENTRATIONS AND NO₂ and NO_x LAND USE REGRESSION (LUR) MODELS IN 37 STUDY AREAS IN EUROPE

Matthias Birk, Josef Cyrys, Joachim Heinrich, Marloes Eeftens, Rob Beelen, Gerard Hoek, Dorothea Sugiri, Ursula Krämer, Marta Cirach Pradas, on behalf of the ESCAPE WP2 Group.

S-0013 VARIATION OF ELEMENTAL COMPOSITION OF PARTICULATE MATTER BETWEEN AND WITHIN 20 STUDY AREAS IN EUROPE

Ming-Yi Tsai, Regina Ducret-Stich, Harish Phuleria, Gerard Hoek, L.-J. Sally Liu, On behalf of the ESCAPE WP2 Group.

S-0014 STABILITY OF LAND USE REGRESSION MODELS AND MEASURED SPATIAL PATTERNS FOR NO₂, PM_{2.5} AND PM_{2.5} ABSORBANCE

Rob Beelen, Marloes Eeftens, Tom Bellander, Michal Korek, Josef Cyrys, Ursula Krämer, Dorothea Sugiri, Joachim Heinrich, Bert Brunekreef, Gerard Hoek.

S-0015 COMPARISON OF LAND USE REGRESSION MODELS WITH DISPERSION MODELS IN SELECTED EUROPEAN CITIES

Kees De Hoogh, Lars Modig, Ole Raaschou-Nielsen, Klea Katsouyanni, Francesco Forastiere, Timo Lanki, Josef Cyrys, Stephanou Euripides, Barbara Hoffmann, Tom Bellander.

S-0016 RELATIONSHIPS BETWEEN AIR POLLUTION AND ROAD TRAFFIC NOISE

Wim Swart, Maria Foraster, Mette Sørensen, Kateryna Fuks, Ole Raaschou-Nielsen, Barbara Hoffmann, Nino Künzli, Ursula Krämer, Gerard Hoek, Danny Houthuijs.

Discussion

S.4 SYMPOSIUM ▶ IN UTERO BISPHENOL A EXPOSURE AND CHILDREN'S HEALTH

11:30 – 13:00 Room 12

Chairs: Kim Harley & Robin Whyatt

S-0017 MATERNAL AND FETAL DIFFERENCES IN BISPHENOL A EXPOSURE DURING PREGNANCY: REVIEWING THE EVIDENCE

Tracey J. Woodruff, Carrie Dickenson, Jackie Schwartz, Julia A. Taylor, Victor Y. Fujimoto, Patricia Hunt.

S-0018 RELATIONSHIPS BETWEEN GESTATIONAL AND CHILDHOOD URINARY BISPHENOL A CONCENTRATIONS AND BEHAVIOR AND EXECUTIVE FUNCTION AT 3-YEARS OF AGE

Joe Braun.

S-0019 PRENATAL BPA BIOMARKER LEVELS AND NEURODEVELOPMENT IN THE MOUNT SINAI CHILDREN'S ENVIRONMENTAL HEALTH CENTER

Stephanie Engel, Mary Wolff.

S-0020 EARLY LIFE BPA EXPOSURE AND OBESITY AND METABOLIC SYNDROME IN CHILDREN

Kim Harley, Raul Aguilar-Schall, Michelle Vedar, Antonia Calafat, Xiaoyun Ye, Brenda Eskenazi.

S-0021 BISPHENOL -A AND T REGULATORY CELL COUNTS IN AN INNER- CITY PROSPECTIVE BIRTH COHORT

Kathleen Donohue, George Vlad, Rachel L. Miller, Matthew S. Perzanowski, Allan C. Just, Lori A. Hoepner, Srikesh Arunajadai, Frederica P. Perera, Raphael Clynes, Antonia Calafat, Robin M. Whyatt.

Discussion

13:00 – 14:00 LUNCH

14:00 – 16:00 POSTER VIEWING

15:00 – 16:00 POSTER DISCUSSION

PD.1 AIR POLLUTION AND CARDIOVASCULAR BIOMARKERS

15.00 – 16.00 Room 5

Chairs: Greg Wellenius & Annette Peters

P-0011 IMPACT OF AIR POLLUTION AND TRANSPORTATION NOISE ON BLOOD PRESSURE IN THE SWISS STUDY ON AIR POLLUTION AND LUNG AND HEART DISEASES (SAPALDIA)

Julia Dratva, Dirk Keidel, Maria Foraster, Margaret Gerbase, Jean-Michel Gaspoz, Harish Phuleria, L.J Sally Liu, Elisabeth Zemp, Christian Schindler, Nino Künzli.

P-0013 EFFECTS OF AIR POLLUTION ON BLOOD PRESSURE AND LEFT VENTRICULAR FUNCTION: A PANEL STUDY OF CORONARY ARTERY DISEASE PATIENTS IN SOUTHWESTERN PART OF TAIWAN

Tsun-Jen Cheng, Yuan-Horng Yan, Rei-Yeuh Chang, Chu-Chih Chen.

P-0028 SOURCE-SPECIFIC AIR POLLUTION AND SYSTEMIC INFLAMMATION IN ISCHEMIC HEART DISEASE PATIENTS

Taina Siponen, Tarja Yli-Tuomi, Regina Hampel, Risto Hillamo, Maija-Riitta Hirvonen, Juha Pekkanen, Iiris Salonen, Raimo O Salonen, Alexandra Schneider, Timo Lanki.

- P-0029 PULSE PRESSURE AND CONSTITUENTS OF PARTICULATE AIR POLLUTION IN ELDERLY
Lotte Jacobs, Anna Buczynska, Christophe Walgraeve, Andy Delcloc, Rene Van Grieken, Kristof Demeestere, Jo Dewulf, Herman Van Langenhove, Benoit Nemery, Tim Nawrot.
- P-0047 INFLAMMATORY RESPONSES TO AMBIENT ULTRAFINE AND FINE PARTICLES IN PATIENTS UNDERGOING CARDIAC REHABILITATION
David Rich, William Beckett, Philip Hopke, Yungang Wang, David Oakes, Mark Frampton, Wojciech Zareba, Mark Utell.
- P-0052 EFFECTS OF AIR POLLUTION AND TEMPERATURE ON VASCULAR FUNCTION IN PEOPLE WITH DIABETES
Antonella Zanobetti, Heike Gibson, Edward Horton, Allison Cohen, Barbara Hoffman, Brent Coull, Joel Schwartz, Murray Mittleman, Yongsheng Li, Diane Gold.

PD.2 EXPOSURE TO ULTRAFINE PARTICULATES AND ELEMENTAL CARBON

15.00 – 16.00

Room 3

Chairs: Gerard Hoek & Nicole Janssen

- P-0493 SPATIAL DISTRIBUTION OF ULTRAFINE PARTICLES IN GIRONA, SPAIN: A LAND USE REGRESSION MODEL
Marcela Rivera, Xavier Basagaña, Inma Aguilera, David Agis, Laura Bouso, Maria Foraster, Mercè Medina-Ramón, Jorge Pey, Nino Küenzli, Gerard Hoek.
- P-0495 SPATIO-TEMPORAL VARIATION OF PARTICLE NUMBER CONCENTRATIONS IN A SWISS URBAN CITY
Harish Phuleria, Ming Tsai, Elisabetta Corradi, Nino Küenzli, Sally Liu.
- P-0497 THE CONTRIBUTION OF SHIPS TO MEASURED NO_x AND ULTRAFINE PARTICLE CONCENTRATIONS ALONG THE WATERWAYS IN AMSTERDAM
Saskia Van Der Zee, Jorrit Van Der Laan, Gerard Hoek.
- P-0502 PERSONAL EXPOSURE TO ULTRAFINE PARTICLES; BLACK CARBON AND PM_{2.5} IN DIFFERENT MICROENVIRONMENTS
Josef Cyrus, Mike Pitz, Jianwei Gu, Susanne Breitner, Alexandra Schneider, Jens Soentgen, Veronika Fensterer, Helmut Küchenhoff, Annette Peters.
- P-0505 COMPARISON OF METHODS FOR ESTIMATING PERSONAL BLACK CARBON EXPOSURES IN URBAN SETTINGS
Jing Cai, Steven Chillrud, Beizhan Yan, Pat Kinney, Matt Perzanowski, Kyung-Hwa Jung, Nathan Rollins, Cosette Olivo, Benedicta Obeng, Fareeha Hafeez.
- P-0509 MAPPING ENVIRONMENTAL HAZARDS AND BLACK CARBON MEASUREMENTS IN AN IMMIGRANT COMMUNITY
Thu Quach, Julie Von Behren, My Tong, Robert Gunier, Andrew Hertz, Scarlett Gomez, Lisa Fu, Erika Garcia, Peggy Reynolds.
- P-0522 WHAT IS THE BEST INDICATOR OF THE ADVERSE HEALTH EFFECTS OF COMBUSTION PARTICLES: BLACK CARBON OR PARTICLE MASS?
Nicole Janssen, Gerard Hoek, Milena Simic-Lawson, Paul Fischer, Leendert van Bree, Menno Keuken, Richard Atkinson, Ross Anderson, Bert Brunekreef, Flemming Cassee.
- P-0546 LOCAL AND REGIONAL SOURCES OF UFP IN URBAN STREETS
Jan Theunis, Roland O'Donoghue, Martine Van Poppel, Vinit Mishra, Patrick Berghmans.
- P-0550 UNDERSTANDING INTRA-NEIGHBORHOOD PATTERNS IN FINE PARTICULATE AIR POLLUTION USING MOBILE MONITORING IN BRADDOCK, PA
Brett Tunno, Kyra Naumoff, Fernando Holguin, Nanjun Chu, Jennifer Zora, Bambang Parmanto, Gede Pramana, Cliff Davidson, Paul Lioy, Jane Clougherty.
- P-0554 ACCURACY OF GPS-TRACKING DEVICES IN EXPOSURE ASSESSMENT STUDIES
Johan Beekhuizen, Hans Kromhout, Anke Huss, Roel Vermeulen.
- P-0557 COMPARISON OF THREE DIFFERENT GEOCODING TECHNIQUES IN FRANCE
Sofia Temam, Christophe Declercq, Morgane Stempfelet, Francine Kauffmann, Françoise Clavel-Chapelon, Valerie Siroux, Raphaëlle Varraso, Nino Kunzli, Benedicte Jacquemin.

PD.3 ENVIRONMENTAL EXPOSURES AND THYROID FUNCTION

15.00 – 16.00

Room 8

Chair: Jonathan Chevrier

- P-0865 ASSOCIATION BETWEEN URINARY 3, 5, 6-TRICHLORO-2-PYRIDINOL, A METABOLITE OF CHLORPYRIFOS AND CHLORPYRIFOS-METHYL, AND SERUM THYROID HORMONES IN NHANES 1999-2002
Gamola Z. Fortenberry, Howard Hu, Mary Turyk, Dana Boyd Barr, John D. Meeker.
- P-0902 THYROID FUNCTION, PFOA AND PFOS IN CHILDREN LIVING NEAR A CHEMICAL PLANT
Maria-Jose Lopez-Espinosa, Tony Fletcher, Debapriya Mondal, Michael S Bloom, Giovanni Leonardi.
- P-0906 THE EFFECTS OF PFOS AND PFOA IN MATERNAL SERUM ON MATERNAL AND INFANT THYROID HORMONES
Sachiko Itoh, Shizue Kato, Motoyuki Yuasa, Seiko Sasaki, Eiji Yoshioka, Ikuko Kashino, Emiko Okada, Chihiro Miyashita, Reiko Kishi.
- P-0914 DDT, MALE REPRODUCTIVE HEALTH AND THYROID HOMEOSTASIS OF NON-OCCUPATIONALLY EXPOSED MEN FROM A MALARIA AREA IN LIMPOPO PROVINCE, SOUTH AFRICA
Christiaan de Jager, Natalie Aneck-Hahn, Riana Bornman, Rhena Delpert, Paulina Farias, Marcello Spano.
- P-0930 ASSOCIATION BETWEEN THYROID HORMONE LEVELS AND POLIBROMODIPHENYL ETHER CONCENTRATIONS IN PREGNANT WOMEN FROM VALENCIA, SPAIN
Esther Vizcaino, Maria-Jose Lopez-espinoza, Mario Murcia, Sabrina Llop, Marisa Rebagliato, Ferran Ballester, Joan O. Grimalt.
- P-0941 PBDE 153 AND THYROID FUNCTION IN HEALTHY PREGNANT WOMEN
Megan Horton, Andreas Sjodin, Sabine Bousleiman, Ronald Wapner, Robin Whyatt, Pam Factor-Litvak.
- P-0943 PHTHALATE EXPOSURE AND THYROID FUNCTION IN PRE-PUBERTAL CHILDREN FROM CENTRAL TAIWAN
Po-Chin Huang, Hsin-I Huang, Pen-Hua Su, Hsiu-Ying Ku, Chien-Jen Wang, Shu-Li Wang

PD.4 15.00 – 16.00	ENVIRONMENTAL HEALTH IMPACT ASSESSMENT POLICIES - METHODOLOGY AND USES Room 4 Chairs: Fintan Hurley & Rainer Friedrich
P-0294	ENVIRONMENTAL HEALTH RISKS AND BENEFITS CAUSED BY CLIMATE PROTECTION POLICIES IN EUROPE <u>Rainer Friedrich</u> .
P-0601	HEALTH IMPACT ASSESSMENT: EXPERTS' EXPECTATIONS AND VIEWS IN THE APHEKOM PROJECT <u>Hanns Moshammer</u> , <u>Manel Nebot</u> .
P-0605	VALUING ENVIRONMENTAL HEALTH IMPACT OF TRAFFIC CIRCULATION PLAN IN THE HAGUE <u>Tiffany Istamto</u> , <u>Gerard Hoek</u> , <u>Hans Nijland</u> , <u>Elise van Kempen</u> , <u>Erik Lebret</u> .
P-0607	CAN HEALTH IMPACT ASSESSMENT (HIA) BE A PLATFORM FOR SYNERGY BETWEEN ENVIRONMENT AND HEALTH? A CROSS-COUNTRY COMPARISON <u>Maya Negev</u> , <u>Nadav Davidovitch</u> , <u>Hagai Levine</u> , <u>Rajiv Bhatia</u> , <u>Jenny Mindell</u> .
P-0609	A MULTISTATE LIFE TABLE MODEL INCLUDING DISEASE RECOVERY FOR ASSESSING THE HEALTH IMPACTS OF CHRONIC ENVIRONMENTAL EXPOSURES <u>James Milner</u> , <u>Zaid Chalabi</u> , <u>Paul Wilkinson</u> , <u>Sotiris Vardoulakis</u> , <u>Michael Davies</u> .
P-0611	HEALTH IMPACT ASSESSMENTS DRIVEN BY CLASSICAL EPIDEMIOLOGICAL BASED-MODELS: HOW RELIABLE ARE OUR PREDICTIONS IN SYSTEMS WITH FEEDBACK? A QUALITATIVE DYNAMICAL SYSTEMS ASSESSMENT <u>Simon Lloyd</u> , <u>Zaid Chalabi</u> , <u>Sari Kovats</u> .
P-0614	A NEW COMPUTATIONAL PARADIGM FOR ASSESSING ENVIRONMENTAL HEALTH IMPACT OF POLICIES <u>Dimosthenis Sarigiannis</u> , <u>Vittorio Reina</u> , <u>Alberto Gotti</u> , <u>Clive Sabel</u> , <u>Barry Evans</u> , <u>Volker Klotz</u> .

PD.5 15.00 – 16.00	MERCURY AND HEALTH EFFECTS IN ADULTS Room 11 Chair: Eric Dewailly & Anna Choi
P-0570	ISCHEMIC STROKE AND FISH CONSUMPTION IN SOUTHERN SWEDEN <u>Anna Oudin</u> , <u>Maria Wennberg</u> .
P-0573	RISK-BENEFIT ANALYSIS: NUTRITIONAL AND ENVIRONMENTAL SAFETY OF FISH CONSUMPTION <u>Shirra Freeman</u> , <u>James Hammitt</u> .
P-0723	MERCURY USE IN ARTISANAL SMALL-SCALE GOLD MINING IN ZIMBABWE: DISABILITY-ADJUSTED LIFE YEARS (DALYS) OF CHRONIC MERCURY INTOXICATION <u>Nadine Steckling</u> , <u>Stephan Bose-O'Reilly</u> , <u>Paulo Pinheiro</u> , <u>Dietrich Pla</u> , <u>Dennis Shoko</u> , <u>Uwe Siebert</u> , <u>Claudia Hornberg</u> .
P-0734	POSTNATAL MERCURY AND LEAD EFFECTS UPON VISUAL-MOTOR DEVELOPMENT IN MEXICAN ADOLESCENTS <u>David Cantonwine</u> , <u>Howard Hu</u> , <u>David Bellinger</u> , <u>Lourdes Schnaas</u> , <u>Brisa Sánchez</u> , <u>Niladri Basu</u> , <u>Héctor Lamadrid-Figueroa</u> , <u>Adriana Mercado-García</u> , <u>Martha María Téllez-Rojo</u> .
P-0822	EXAMINING THE ASSOCIATION BETWEEN LEVELS OF ARSENIC, LEAD AND MERCURY ON NEUROBEHAVIORAL PERFORMANCE AMONG METAL, CHEMICAL AND MINING INDUSTRY WORKERS <u>Rocio Capelo</u> , <u>Diane Rohlman</u> , <u>Rosa Galisteo</u> , <u>Amanda Gago</u> , <u>Jose Andrés Lorca</u> , <u>Miguel Ángel García</u> , <u>W Kent Anger</u> , <u>Tamara García</u> , <u>Jose Luis Gómez-Ariza</u> , <u>Juan Alguacil</u> .

PD.6 15.00 – 16.00	AGRICULTURAL CHEMICALS AND CHILDREN'S HEALTH Room 12 Chair: Brenda Eskenazi
P-0879	MATERNAL EXPOSURE TO ORGANOPHOSPHATE PESTICIDES, PON1 POLYMORPHISMS AND MISCARRIAGE <u>Marina Lacasaña</u> , <u>Julia Blanco-Muñoz</u> , <u>Beatriz González-Alzaga</u> , <u>Clemente Aguilar-Garduño</u> , <u>Miguel Rodríguez-Barranco</u> , <u>Oscar Pérez-Méndez</u> , <u>Ricardo Gamboa</u> .
P-0884	PERSISTENT NEUROBEHAVIORAL EFFECTS IN SCHOOLCHILDREN AND ADULTS AFTER THREE DECADES OF EXPOSURE TO DRIFT CONTAINING ORGANOPHOSPHOROUS PESTICIDES <u>Yoram Finkelstein</u> , <u>Amit Ophir</u> , <u>Elihu D Richter</u> , <u>Michael Aschner</u> , <u>Elyakim Doitsch</u> , <u>Uri Wormser</u> .
P-0888	THE INFANTS' ENVIRONMENTAL HEALTH (ISA) STUDY: A BIRTH-COHORT STUDY WITH AN ECOSYSTEM HEALTH APPROACH IN LIMÓN, COSTA RICA <u>Berna Van Wendel de Joode</u> , <u>Ana María Mora</u> , <u>Leonel Córdoba</u> , <u>Juan Camilo Cano</u> , <u>Rosario Quesada</u> , <u>Karla Solano</u> , <u>Clemens Ruepert</u> , <u>Brenda Eskenazi</u> , <u>Catharina Wesseling</u> , <u>Christian Lindh</u> .
P-0895	EFFECTS OF PRENATAL AND POSTNATAL EXPOSURE TO CHLORDECONE ON INFANT NEURODEVELOPMENT <u>Renee Dallaire</u> , <u>Gina Muckle</u> , <u>Florence Rouget</u> , <u>Sophie Seurin</u> , <u>Christine Monfort</u> , <u>Luc Multigner</u> , <u>Henri Bataille</u> , <u>Jean Pierre Thome</u> , <u>Sandra W. Jacobson</u> , <u>Sylvaine Cordier</u> .
P-0898	EXPOSURE TO HERBICIDES IN HOUSE DUST AND RISK OF CHILDHOOD LEUKEMIA <u>Helen Reed</u> , <u>Catherine Metayer</u> , <u>Joanne Colt</u> , <u>Patricia Buffler</u> , <u>Steve Selvin</u> , <u>Mary Ward</u> .
P-0936	PRENATAL EXPOSURE TO ORGANOCHLORINE COMPOUNDS AND ULTRASOUND MEASURES OF FETAL GROWTH <u>Maria-Jose Lopez-Espinosa</u> , <u>Mario Murcia</u> , <u>Carmen Iñiguez</u> , <u>Esther Vizcaino</u> , <u>Jesus Vioque</u> , <u>Joan O Grimalt</u> , <u>Marisa Rebagliato</u> , <u>Ferran Ballester</u> .

16:00 – 16:30 COFFEE BREAK

OS.13 16:30 – 18:00	AIR POLLUTION AND RESPIRATORY DISEASES I Auditorium Chairs: Francesco Forastiere & Frank Gilliland
O-0073	TRAFFIC-RELATED AIR POLLUTION, CHILDHOOD ASTHMA AND THE INFLUENCE OF CANDIDATE GENES INVOLVED IN OXIDATIVE STRESS <u>Elaina MacIntyre</u> , <u>Erik Melén</u> , <u>Elaine Fuertes</u> , <u>Joachim Heinrich</u> , <u>Marjan Kerkhof</u> , <u>Göran Pershagen</u> , <u>Ulrike Gehring</u> , <u>Michael Brauer</u> , <u>Chris Carlsten</u> .

- O-0074 OUTDOOR EXPOSURE TO FORMALDEHYDE (CH₂O) IS ASSOCIATED WITH AN INCREASED RISK OF HOSPITALIZATION FOR RESPIRATORY DISEASES IN CHILDREN
Roberto De Marco, Pierpaolo Marchetti, Paolo Girardi, Maria Enrica Fracasso, Linda Guarda, [Alessandro Marcon](#), Vanda Pironi, Giorgio Siliprandi, Paolo Ricci.
- O-0075 ASSOCIATION BETWEEN AIR POLLUTION AND GLUTATHIONE S-TRANSFERASE (GST) P1 ON ASTHMA AND WHEEZING AMONG CHILDREN IN TAIWAN
[Bing-Fang Hwang](#), Yungling Lee.
- O-0076 SHORT-TERM VARIATION IN AIR POLLUTION TRIGGERS ACUTE REJECTION AFTER LUNG TRANSPLANTATION
[Hans Scheers](#), Tim Nawrot, Stijn Verleden, Rachel Geenens, Peter Hoet, Frans Fierens, Erik Verbeken, Ben Nemery, Geert Verleden, Bart Vanaudenaerde.
- O-0077 GENOME-WIDE INTERACTION STUDY OF CUMULATIVE PARTICULATE MATTER EXPOSURE ON AGE-RELATED LUNG FUNCTION DECLINE IN ADULTS, THE SAPALDIA COHORT
[Medea Imboden](#), Ivan Curjuric, Sally LJ Liu, Ashish Kumar, Thierry Rochat, Nino Künzli, Nicole M Probst-Hensch.
- O-0078 INCREASED FRACTIONAL EXHALED NO AND DECREASED LUNG FUNCTION ARE ASSOCIATED WITH ULTRAFINE PARTICLES AND NOT OTHER PM CHARACTERISTICS: HEALTH EFFECT ASSESSMENT IN THE RAPTES PROJECT
[Maciej Strak](#), Maaïke Steenhof, Krystal Godri, Ilse Gosens, Ian Mudway, Roy Harrison, Erik Lebret, Bert Brunekreef, Gerard Hoek, Nicole Janssen.

OS.14 PESTICIDES AND HEALTH I

16:30 – 18:00

Room 6

Chairs: [Claudia Hopenhayn](#) & [Stephanie Engel](#)

- O-0079 ATRAZINE EXPOSURE FROM DRINKING WATER AND ADVERSE BIRTH OUTCOMES IN KENTUCKY, U.S.A.
[Claudia Hopenhayn](#), Jessica Rinsky, Vijay Golla, Steve Browning, Heather Bush.
- O-0080 DITHIOCARBAMATE PESTICIDE EXPOSURES, ALDEHYDE DEHYDROGENASE INHIBITION, AND RISK OF PARKINSON'S DISEASE
[Beate Ritz](#), Shannon Rhodes, Arthur G. Fitzmaurice, Myles Cockburn, Jeff M. Bronstein.
- O-0081 MATERNAL RESIDENCE NEAR AGRICULTURAL PESTICIDE APPLICATIONS AND AUTISM: A FOLLOW-UP STUDY
[Eric M Roberts](#), Paul B English, Liang Guo, Craig Wolff, Meredith Anderson, Gayle Windham.
- O-0082 THE ASSOCIATION BETWEEN AGRICULTURAL ORGANOPHOSPHATE PESTICIDE EXPOSURE AND AUTISM SPECTRUM DISORDERS IN THE CHARGE STUDY
[Janie Shelton](#), Irva Hertz-Picciotto.
- O-0083 THE CONTRIBUTION OF WITHIN AND BETWEEN VARIATIONS OF URINARY METABOLITE MEASUREMENTS IN PREDICTING CHILDREN'S PESTICIDE EXPOSURES
[Kathleen Attfield](#), Xihong Lin, Chensheng (Alex) Lu.
- O-0084 PROSPECTIVE INTEGRATED ASSESSMENT OF CANCER RISK ATTRIBUTABLE TO PESTICIDES IN EUROPE
[Dimosthenis Sarigiannis](#), Periklis Kontoroupi, Ermioni Solomou, Peter Fantke, Oleg Travnikov, Spyridoula Nikolaki, Susanne Wagner, Alberto Gotti, Anastasios Karabelas.

OS.15 OCCUPATIONAL HEALTH I

16:30 – 18:00

Room 5

Chairs: [Nicole Le Moual](#) & [Pier-Alberto Bertazzi](#)

- O-0085 LUNG CANCER AND ELEMENTAL CARBON EXPOSURE IN US TRUCKING INDUSTRY WORKERS
[Eric Garshick](#), Jaime E Hart, Mary E Davis, Thomas J Smith, Francine Laden.
- O-0086 EXPOSURE TO PROFESSIONAL PEST CONTROL TREATMENTS AND THE RISK OF CHILDHOOD ACUTE LYMPHOBLASTIC LEUKAEMIA
[Helen Bailey](#), Bruce Armstrong, Nicholas de Klerk, Lin Fritschi, John Attia, Rodney Scott, Elizabeth Smibert, Elizabeth Milne.
- O-0087 EXPOSURE TO METALWORKING FLUIDS AND RISK OF BLADDER CANCER
[Joanne Colt](#).
- O-0088 OCCUPATIONAL EXPOSURE TO DISINFECTANTS AND ADULT-ONSET ASTHMA IN U.S. NURSES PRELIMINARY RESULTS
[Nicole Le Moual](#), Raphaëlle Varraso, Jan Paul Zock, Frank E. Speizer, Francine Kauffmann, Carlos A. Camargo.
- O-0089 GENOMIC DNA METHYLATION ALTERATIONS DUE TO METAL RICH AIR PARTICLE EXPOSURE: POTENTIAL LINKS WITH INFLAMMATION AND COAGULATION MARKERS
Francesco Nordio, [Laura Angelici](#), Letizia Tarantini, Matteo Bonzini, Armando Tripodi, Pietro Apostoli, Pier Alberto Bertazzi, Andrea Baccarelli.
- O-0090 NIGHT WORK AND BREAST CANCER RISK: CECILE STUDY
[Florence Menegaux](#), Thérèse Truong, Antoinette Anger, Emilie Cordina, Pierre Kerbrat, Patrick Arveux, Farida Lamkarkarch, Pascal Guénel.

OS.16 ENVIRONMENTAL HEALTH POLICY

16:30 – 18:00

Room 3

Chairs: Aaron Cohen & Eric Lebret

- O-0091 HOW WE PREVENTED THE CORRUPTION OF A GOVERNMENT RESEARCH PROGRAM
[Raymond Neutra](#).
- O-0092 ASSESSMENT IS TO ACT COLLABORATIVE CREATION OF SOCIAL KNOWLEDGE IN ENVIRONMENTAL HEALTH ASSESSMENT AND POLICY-MAKING
[Mikko V. Pohjola](#), Jouni T. Tuomisto.
- O-0093 HEALTH BENEFITS OF POLICIES TO CLEAN UP POLLUTED SITES OF GELA AND PRIOLO, ITALY
[Carla Guerriero](#), Fabrizio Bianchi, John Cairns, Lilliana Cori.

- O-0094 DISCORDANCE BETWEEN ONE-HOUR AND ANNUAL LIMITS OF THE WORLD HEALTH ORGANIZATION AIR QUALITY GUIDELINE (WHOAGG) FOR NO₂
Hak-Kan Lai, Anthony Hedley, Chit-Ming Wong.
- O-0095 COMPARATIVE ENVIRONMENTAL HEALTH RISK ASSESSMENT FOR USE IN POLICY-MAKING: THE VEGAS PROJECT
Nadine Steckling, Thomas Classen, Odile Mekel, Michael Schümann, Zita Schillmöller, André Conrad, Claudia Terschüren, Johann Popp, Reinhard Samson, Claudia Hornberg.
- O-0096 LIMITATIONS OF ENVIRONMENTAL EPIDEMIOLOGY FOR GUIDING ENVIRONMENTAL POLICY
David Savitz.

OS.17 BUILT ENVIRONMENT

16:30 – 18:00

Room 8

Chairs: **Julian Marshall & Javier Nieto**

- O-0097 SAFE NEIGHBORHOODS MAKE CHILDREN MOVE; RESULTS FROM THE SPATIAL PLANNING AND CHILDREN'S EXERCISE (SPACE) STUDY
Frank Pierik, Dieuwke Schokker, Carien Caljouw, Jantine Slinger, Sanne de Vries.
- O-0098 LIGHTS OUT: IMPACT OF THE AUGUST 2003 POWER OUTAGE ON MORTALITY IN NEW YORK, NY
Brooke Anderson, Michelle Bell.
- O-0099 ARE OBESITY AND OVERWEIGHT CLUSTERED? SPATIAL EXAMINATION OF OLDER WOMEN IN THREE STATES
Kosuke Tamura, Robin Puett, Heather Whitcomb, Jaime Hart, Francine Laden, Philip Troped.
- O-0100 URBAN SPRAWL AND BODY MASS INDEX: A FIXED-EFFECTS ANALYSIS IN TWO COHORTS OF OLDER WOMEN IN THE UNITED STATES
Peter James, Jaime E. Hart, Philip J. Troped, Francine Laden.
- O-0101 UNDERSTANDING WALKABILITY: HOW POLICYMAKERS ASSESS FACTORS THAT INFLUENCE ACTIVE TRANSPORT
Kevin Leyden, Lorraine Fitzsimons, Catherine Woods, James Wickham.
- O-0102 NEIGHBORHOOD PERCEPTIONS, ACCESS TO RESOURCES AND PSYCOSOCIAL INFLUENCES ON PHYSICAL ACTIVITY: OPPORTUNITIES FOR IMPROVING THE BUILT ENVIRONMENT
Kristen Malecki, Marjory Givens, Matt Walsh, Julstin Lo, Javier Nieto.

OS.18 METHODS, GENERAL

16:30 – 18:00

Room 4

Chairs: **Duncan Thomas & Neil Pearce**

- O-0103 A METHOD FOR DETECTION OF RESIDUAL CONFOUNDING IN SPATIAL AND OTHER OBSERVATIONAL STUDIES
William Flanders, Mitchel Klein, Lyndsey Darrow, Matthew Strickland, Stefanie Sarnat, Jeremy Sarnat, Lance Waller, Andrea Winquist, Paige Tolbert.
- O-0104 STATISTICAL METHODS FOR EXPOSURE RESPONSE ANALYSIS OF HIGHLY CORRELATED EXPOSURES
Roel Vermeulen, Lutzen Portengen.
- O-0105 CONDITIONAL POISSON MODELS: A BETTER WAY TO ANALYZE CASE-CROSSOVER AND RELATED DATA?
Ben Armstrong, Antonio Gasparrini.
- O-0106 RISK DIFFERENCE ADDITIVITY IS AN INAPPROPRIATE TEST OF BIOLOGICAL INTERACTION FOR MANY COMBINATION EXPOSURES
Gregory Howard, Thomas Webster.
- O-0107 THE USE OF INSTRUMENTAL VARIABLES TO REDUCE CONFOUNDING AND REVERSE-CAUSATION BIAS IN A CROSS-SECTIONAL STUDY FOR PFOA IN RELATION TO CHOLESTEROL
Nicola Fitz-Simon, Ben Armstrong, Tony Fletcher.
- O-0108 G-ESTIMATION USING A TRICHOTOMOUS EXPOSURE MEASURE
Sally Picciotto, Jonathan Chevrier, Ellen A. Eisen.

S.5 SYMPOSIUM

▶ WHAT WILL BE THE ROLE OF EPIDEMIOLOGICAL RESEARCH IN FUTURE

AIR-QUALITY MANAGEMENT?

16:30 – 18:00

Room 11

Chairs: **Jonathan Samet**

- S-0022 EPIDEMIOLOGY AND AIR QUALITY STANDARDS
Bert Brunekreef.
- S-0023 GLOBAL AIR POLLUTION AND HEALTH: WHAT TO DO WITH NON-LINEAR EXPOSURE-RESPONSE RELATIONSHIPS?
Kirk R. Smith, Jonathan Samet.
- S-0024 BIOLOGICALLY DRIVEN APPROACHES TO THE STUDY OF AIR POLLUTION: THE EXAMPLE OF LUNG CANCER
Paolo Vineis, Christiana Demetriou.
- S-0025 SATELLITE-BASED PM_{2.5} EXPOSURE ASSESSMENT AND ITS IMPLICATIONS FOR EPIDEMIOLOGICAL STUDIES
Hyung Joo Lee, Petros Koutrakis.
- S-0026 AN APPROACH TO MULTI-POLLUTANT ACCOUNTABILITY RESEARCH USING PRINCIPAL STRATIFICATION
Corwin Ziegler, Francesca Dominici.
- S-0027 MAINTAINING THE RELEVANCE OF EPIDEMIOLOGY: ADDRESSING THE FULL SCALE FROM EXPOSURE TO POLICY WITHIN AN INTERACTIVE ENVIRONMENT
Klea Katsouyanni, Evi Samoli, Antonis Analtis.



S.6	SYMPOSIUM ▶ LESSONS LEARNED 25 YEARS POST-CHERNOBYL: HEALTH EFFECTS OF EARLY LIFE AND LATER EXPOSURES
16:30 – 18:00	Room 12 Chairs: Elisabeth Cardis & Maureen Hatch
S-0028	OVERVIEW: EMPHASIZING THE CRITICAL KNOWLEDGE GAINED FROM THE CHERNOBYL EXPERIENCE <u>E. Cardis</u> , M. Hatch.
S-0029	RESULTS OF UKRAINIAN-AMERICAN PROJECT FOR THE STUDY OF THYROID CANCER IN COHORTEXPOSED TO CHERNOBYL FALLOUT AS CHILDREN OR ADOLESCENTS M Tronko, M Hatch, T Bogdanova, K Mabuchi, I. Likhtarev, A. Bouville, V. Oliynik, R. McConnell, <u>V Shpak</u> , L Zablotska, V Tereschenko, A Brenner, G Zamotayeva.
S-0030	IN UTERO EXPOSURE TO CHERNOBYL FALLOUT IN UKRAINE AND SUBSEQUENT RISK OF THYROID AND NON-THYROID CANCERS <u>Maureen Hatch</u> , Alina Brenner, Evgenia Ostroumova, Tronko M., Ron E., Tereschenko V., Bogdanova T., Zablotska L., Shpak V., Zvinchuk O., Derevyanko A., Fedorenko Z., Gorokh E., Mabuchi K.
S-0031	INTELLECTUAL AND PSYCHOSOCIAL FUNCTIONING IN PERSONS EXPOSED IN UTERO TO CHERNOBYL FALLOUT IN BELARUS <u>Sergey A. Igumnov</u> .
S-0032	EFFECTS OF EXPOSURE LATER IN LIFE: CANCER AND CARDIOVASCULAR DISEASE AMONG CHERNOBYL CLEANUP WORKERS FROM THE MOST AFFECTED COUNTRIES <u>Marat Maksyutov</u> , Victor K. Ivanov, Elisabeth Cardis, Ausrele Kesminiene. Discussion: Addressing gaps in knowledge and studying the long-term consequences of the Chernobyl accident, a strategic research agenda. Panel members: all speakers and Dr. Zhanat Carr , M.D., World Health Organisation, Geneva, Switzerland.
18:00 – 19:30	ISEE GENERAL MEMBERSHIP MEETING ▶ Room 3

Thursday, September 15th

07:30 – 08:30 EARLY MORNING SESSIONS

▶ Room 3

WRITING AND PUBLISHING AN ENVIRONMENTAL EPIDEMIOLOGY PAPER

Jane Schroeder & Allen Wilcox

▶ Room 8

LOW LEVEL EXPOSURE TO CHEMICALS SUCH AS LEAD, VOCS, BISPENOL A AND PHTHALATES IN THE COMMUNITY.

A DISCUSSION ON HEALTH EFFECTS, STANDARD LEVELS AND REGULATIONS

Yun-Chul Hong

▶ Room 4

WHY WE SHOULD ALL BE BAYESIANS (AND OFTEN ARE WITHOUT KNOWING IT)

Neil Pearce

08:30 – 08:55 ISEE AWARDS ▶ Auditorium

08:55 – 09:25 GOLDSMITH AWARDEE - Irva Hertz-Piccotto ▶ Auditorium

09:25 – 09:30 ISEE2012 SOUTH CAROLINA ▶ Auditorium

Chairs: Dean Baker & Veronica Vieira

OS.19 AIR POLLUTION AND CARDIOVASCULAR DISEASE II

09:30 – 11:00

Auditorium

Chairs: Annette Peters & Joel Kaufman

O-0109 ASSOCIATION OF TRAFFIC RELATED AIR POLLUTION AND SUBCLINICAL ATHEROSCLEROSIS IN MEDITERRANEAN TOWNS OF THE REGICOR STUDY

Marcela Rivera, Xavier Basagaña, Inma Aguilera, David Agis, Maria Foraster, Maria Grau, Joan Sala, Roberto Elosua, Jaume Marrugat, Nino Küenzli.

O-0110 LONG TERM EXPOSURE TO TRAFFIC RELATED AIR POLLUTION AND MORTALITY IN A GREEK COHORT STUDY

Konstantina Dimakopoulou, Michail Katsoulis, Xanthi Pedeli, Alexandros Gryparis, Antonia Trichopoulou, Klea Katsouyanni.

O-0111 COARSE AND TRAFFIC-RELATED PARTICULATE MATTER AND THE HUMAN MICROVASCULATURE IN VIVO ASSESSED VIA RETINAL IMAGING: THE MULTI-ETHNIC STUDY OF ATHEROSCLEROSIS

Sara Adar, Kai Zhang, Ronald Klein, Barbara Klein, Adam Szpiro, Mary Frances Cotch, Tien Y Wong, David Siscovick, Joel Kaufman, Timothy V Larson.

O-0112 LONG-TERM EXPOSURE TO AIR POLLUTION (PM2.5 AND NO2) AND MORTALITY: RESULTS OF THE ROME LONGITUDINAL STUDY (ROLS)

Giulia Cesaroni, Claudio Gariazzo, Roberto Sozzi, Chiara Badaloni, Marina Davoli, Francesco Forastiere.

- O-0113 TRIGGERING OF TRANSMURAL INFARCTIONS BY AMBIENT FINE PARTICLES, ROLE OF SECONDARY VERSUS PRIMARY PARTICLE SPECIES MASS FRACTIONS
David Rich, Howard Kipen, Haluk Özkaynak, Lisa Baxter, Janet Burke, James Crooks, Melissa Lunden, John Kostis, Jim Zhang, Barbara Turpin.
- O-0114 OZONE EFFECTS ON HEART RATE AND REPOLARIZATION PARAMETERS IN POTENTIALLY SUSCEPTIBLE INDIVIDUALS
Regina Hampel, Susanne Breitner, Wojciech Zareba, Ute Kraus, Mike Pitz, Uta Geruschkat, Petra Belcredi, Annette Peters, Alexandra Schneider.

OS.20 EXPOSURE ASSESSMENT II

09:30 – 11:00

Room 6

Chairs: Frank Pierik & Tanja Pless-Mulloli

- O-0115 SINGLE NUCLEOTIDE POLYMORPHISMS IN METALLOTHIONEIN AND CHANGES IN HAIR MERCURY LEVELS
Yi Wang, Jaclyn Goodrich, Brenda Gillespie, Robert Werner, Niladri Basu, Alfred Franzblau.
- O-0116 COMBINING NEWBORN BLOOD CONCENTRATIONS AND QUESTIONNAIRE DATA TO ESTIMATE INDIVIDUAL CUMULATIVE PRENATAL METHYLMERCURY EXPOSURE AMONG CHILDREN WITH AUTISM, DEVELOPMENTAL DELAY, AND TYPICAL DEVELOPMENT
Stephen McKean, Irva Hertz-Picciotto, Peter Green, Scott Bartell.
- O-0117 WHEN POLLUTION GETS PERSONAL: DEVELOPING PROTOCOLS FOR BIOMONITORING RESULTS COMMUNICATION WITH INPUT FROM STUDY PARTICIPANTS
Rachel Morello-Frosch, Holly Brown-Williams, Kathy Simpson.
- O-0118 AUTOMATIC TIME-ACTIVITY CLASSIFICATION BASED ON GLOBAL POSITIONING DATA
Jun Wu, Chengsheng Jiang, Douglas Houston, Ralph Delfino, Dean Baker.
- O-0119 DECIDUOUS TOOTH DENTINE AS A BIOMARKER OF PRENATAL MANGANESE EXPOSURE
Manish Arora, Asa Bradman, Roberto Lucchini, Christine Austin, Michelle Vedar, Nina Holland, Brenda Eskenazi, Donald Smith.
- O-0120 USING CROSS-SECTIONAL BIOMONITORING STUDIES TO EXPLORE THE RELATIONSHIP BETWEEN HUMAN BODY BURDEN AND AGE
Cristina L. Quinn, Frank Wania.

OS.21 METALS AND HEALTH I

09:30 – 11:00

Room 5

Chairs: Philippe Grandjean & Ana Navas Acien

- O-0121 HEAVY METALS AND COUPLE FECUNDITY, THE LIFE STUDY
Germaine Buck Louis, Rajeshwari Sundaram, Enrique Schisterman, Anne Sweeney, Courtney Lynch, Rob Gore-Langton, Zhen Chen, Sungduk Kim, Kathleen Caldwell, Dana Boyd Barr.
- O-0122 LOW-LEVEL ENVIRONMENTAL LEAD EXPOSURE IN CHILDHOOD AND ADULT INTELLECTUAL FUNCTION: A FOLLOW-UP STUDY
Maitreyi Mazumdar, David Bellinger, Matthew Gregas, Kathleen Abanilla, Janine Bacic, Herbert Needleman.
- O-0123 MERCURY EXPOSURE IN REMOTE FISH EATING POPULATIONS AND CARDIOVASCULAR RISK FACTORS
Eric Dewailly, Beatriz Valera, Pierre Ayotte, Paul Poirie.
- O-0124 THE ASSOCIATION BETWEEN BLOOD LEAD AND BLOOD PRESSURE VARIES BY RACE AND DEPRESSIVE SYMPTOMS
Margaret Hicken, Gilbert Gee, Howard Hu.
- O-0125 RELATION OF CHRONIC ENVIRONMENTAL LEAD EXPOSURE TO DEPRESSION AND ANXIETY SYMPTOMS IN OLDER WOMEN
Ki-Do Eum, Susan Korrick, Jennifer Weuve, Olivia Okereke, Laura Kubzansky, Howard Hu, Marc Weisskopf.
- O-0126 ALLOSTATIC LOAD MODIFIES THE EFFECT OF BLOOD LEAD LEVELS ON HYPERTENSION AMONG MIDDLE-AGED ADULTS IN THE U.S.
Ami Zota, Edmond Shenassa, Rachel Morello-Frosch.

OS.22 WATER CONTAMINANTS AND HEALTH II

09:30 – 11:00

Room 3

Chairs: Mireille Toledano & Mike Wright

- O-0127 CLIMATE CHANGE AND INCREASED PRECIPITATIONS: THE IMPACT OF HEAVY RAINFALLS ON SURFACE WATER TOTAL ORGANIC CARBON (TOC) AND RESULTING HUMAN EXPOSURE TO TRIHALOMETHANES
Marc-André Verner, Ianis Delpla, Mathieu Valcke, Vincent Bessonneau, Olivier Thomas, Sami Haddad.
- O-0128 THE EFFECTS OF HIGH IODINE INTAKE ON PERCHLORATE-RELATED DECREASES IN THYROID HORMONE, NHANES 2001-2
Lara Cushing, Craig Steinmaus, Mark D. Miller, Allan H. Smith.
- O-0129 THYROID HORMONES AND THYROID DISEASE IN RELATION TO PERCHLORATE DOSE AND RESIDENCE NEAR A SUPERFUND SITE
Ellen Gold, Benjamin Blount, Marianne Rasor, Jennifer Lee, Udeni Alwis, Anup Srivastav, Kyoungmi Kim.
- O-0130 INTERACTIONS BETWEEN DISINFECTION BY PRODUCTS IN DRINKING WATER AND GENETIC SUSCEPTIBILITY VARIANTS IN RELATION TO ADVERSE REPRODUCTIVE OUTCOMES (THE HIWATE STUDY)
Mariona Bustamante, Ana Espinosa, Juan R Gonzalez, Asta Danileviciute, Cecile Chevrier, Regina Grazuleviciene, Evridiki Patelarou, Cristina M Villanueva, Mark Nieuwenhuijsen, Manolis Kogevinas.
- O-0131 INTEGRATED ENVIRONMENTAL HEALTH IMPACT ASSESSMENT OF DISINFECTION BY-PRODUCTS
James Grellier, Lesley Rushton, Mark Nieuwenhuijsen, David Briggs.

O-0132 SWIMMING POOL ATTENDANCE AND RESPIRATORY SYMPTOMS AT 1 YEAR: RESULTS FROM THE INMA BIRTH COHORT IN SPAIN
Laia Font-Ribera, [Cristina M. Villanueva](#), Ferran Ballester, Loreto Santa Maria, Adonina Tardón, Nadia Espejo-Herrera, Ana Esplugues, Cristina Rodríguez Delhi, Mikel Baterretxea, Jordi Sunyer.

OS.23 HEALTH IMPACT ASSESSMENT

09:30 – 11:00

Room 8

Chairs: Paul Wilkinson & Marko Tainio

- O-0133 EXCESS MORTALITY IN EUROPE FOLLOWING A FUTURE LAKI-STYLE ICELANDIC ERUPTION
[Anja Schmidt](#), [Bart Ostro](#), Kenneth Carslaw, Majorie Wilson, Thorvaldur Thordarson, Graham Mann.
- O-0134 USING HEALTH IMPACT ASSESSMENT TO TRANSLATE EPIDEMIOLOGICAL EVIDENCE INTO POLICY RECOMMENDATIONS: HEALTH IMPACTS OF A CAP-AND-TRADE PROGRAM IN CALIFORNIA
[Maxwell Richardson](#), Paul English, Linda Rudolph.
- O-0135 ESTIMATED GLOBAL HUMAN MORTALITY FROM VEGETATION FIRE SMOKE
[Fay Johnston](#), Sarah Henderson, Yang Chen, James Randerson, Miriam Marlier, Ruth DeFries, Patrick Kinney, David Bowman, Michael Brauer.
- O-0136 INTEGRATED ENVIRONMENTAL HEALTH IMPACT ASSESSMENT BASED ON PERSONAL EXPOSURE TO PM2.5
Alexandra Kuhn, Lydia Gerharz, Miranda Loh, Aileen Yang, Araceli Sánchez Jiménez, Anne Knol, Alistair Hunt, Philipp Preiss, Joachim Roos, [Rainer Friedrich](#).
- O-0137 SENTIERI PROJECT: MORTALITY STUDY OF RESIDENTS IN ITALIAN POLLUTED SITES - IPS
[Roberta Pirastu](#), Francesco Mitis, Ivano Iavarone, Roberto Pasetto, Pietro Comba, Marco Martuzzi.
- O-0138 AIR QUALITY IMPLICATIONS OF ALTERNATIVE FUELS: A SPATIALLY AND TEMPORALLY EXPLICIT LIFECYCLE MODELING APPROACH
[Christopher Tessum](#), Kristina Wagstrom, Jason Hill, Julian Marshall.

OS.24 PFCs AND HEALTH

09:30 – 11:00

Room 4

Chairs: Mary Wolff & Martine Vrijheid

- O-0139 SERUM PERFLUORINATED COMPOUND CONCENTRATION AND ATTENTION DEFICIT/HYPERACTIVITY DISORDER IN CHILDREN AGED 5-18
[Cheryl Stein](#), David Savitz.
- O-0140 LONG TERM EFFECTS OF IN-UTERO EXPOSURE TO PERFLUORINATED CHEMICALS ON FEMALE REPRODUCTION
[Susanne Lund Kristensen](#), Cecilia Høst Ramlau-Hansen, Erik Ernst, Sjurður Frodi Olsen, Jens Peter Bonde, Anne Vested, Thorhallur Halldorsson, Georg Becher, Line Smaastuen Haug, Gunnar Toft.
- O-0141 CROSS-SECTIONAL ASSOCIATION BETWEEN POLYFLUOROALKYL CHEMICALS AND TWO MEASURES OF COGNITIVE FUNCTION IN THE NATIONAL HEALTH AND NUTRITION EXAMINATION SURVEY (NHANES)
[Melinda C. Power](#), Thomas Webster, Marc G. Weisskopf.
- O-0142 EFFECTS OF IN UTERO EXPOSURE TO PFOA AND PFOS ON HUMAN SEMEN QUALITY AND HORMONE PROFILE
[Anne Vested](#), Cecilia Hoest Ramlau-Hansen, Sjurður Frodi Olsen, Jens Peter Bonde, Susanne Lund Kristensen, Thorhallur Ingi Halldorsson, Georg Becher, Line Smaastuen Haug, Emil Hagen Ernst, Gunnar Toft.
- O-0143 SERUM PFOA AND PFOS LEVELS AND LIVER FUNCTION BIOMARKERS IN THE C8 SCIENCE PANEL STUDY
[Valentina Gallo](#), Maria-Jose Lopez-Espinosa, Nicola Fitz-Simon, Debapriya Mondal, Giovanni Leonardi, Ben Armstrong, Tony Fletcher.
- O-0144 PERFLUORINATED CHEMICALS AND SEMEN QUALITY, THE LIFE STUDY
[Germaine Buck Louis](#), Steven Schrader, Sungduk Kim, Anne Sweeney, Zhen C, Rajeshwari Sundaram, Enrique Schisterman, Rob Gore-Langton, Terry Turner, Antonia Calafat.

S.7 SYMPOSIUM. UBIQUITOUS AND PARTICIPATORY SENSING FOR EXPOSURE ASSESSMENT IN ENVIRONMENTAL EPIDEMIOLOGY

09:30 – 11:00

Room 11

Chair: Michael Jerrett

- S-0033 UBIQUITOUS SENSING FOR EXPOSURE ASSESSMENT IN ENVIRONMENTAL EPIDEMIOLOGY
[Michael Jerrett](#).
- S-0034 MOBILE PHONES AS PERSONAL ENVIRONMENTAL SENSING PLATFORMS: DEVELOPMENT OF THE CALFIT SYSTEM
[Edmund Seto](#), Posu Yan, Philip Kuryloski, Ruzena Bajcsy, Ted Abresch, Erik Henricson, Jay Han.
- S-0035 IMPROVING ESTIMATES OF TRAVEL ACTIVITY AND AIR POLLUTION EXPOSURE THROUGH UBIQUITOUS SENSING TECHNOLOGIES
[Audrey De Nazelle](#), Edmund Seto, David Donaire, Michelle Mendez, Jaume Matamala, Meritxell Portella, Daniel Rodriguez, Mark Nieuwenhuijsen, Michael Jerrett.
- S-0036 MEASURING THE LUNG FUNCTION CONTINUOUSLY AND UNOBTRUSIVELY
[Ville-Pekka Seppä](#), Jari Hyttinen, Jari Viik.
- S-0037 ASSESSING REAL-TIME RELATIONSHIPS AMONG PHYSICAL ACTIVITY, GREEN SPACE, AND COMMUNITY DESIGN IN CHILDREN
[Estela Almanza](#), Michael Jerrett, Genevieve Dunton, Edmund Seto, Maryann Pentz.
- S-0038 THE PARTICIPATORY DESIGN OF EXPOSURE ASSESSMENT APPARATUS
[David Holstius](#).
- Discussion

S.8 SYMPOSIUM ► EFFECTS OF TRANSPORTATION-RELATED NOISE IN LIGHT OF CORRELATED EXPOSURES TO AIR POLLUTION

09:30 – 11:00

Room 12

Chairs: Nino Künzli & Barbara Hoffmann

- S-0039 NOISE ASSESSMENT IN EPIDEMIOLOGICAL STUDIES
Danny Houthuijs, Wolfgang Babisch, Wim Swart.
- S-0040 CORRELATION BETWEEN NOISE AND AIR POLLUTION KNOWN AND GAPS
Maria Foraster, Xavier Basagaña, Inmaculada Aguilera, David Agis, Laura Bouso, Alexandre Deltell, Marcela Rivera, Wim Swart, Nino Künzli.
- S-0041 LONGITUDINAL STUDIES OF NOISE AND MENTAL HEALTH
Stephen Stansfeld, Charlotte Clark, Russell Ecob.
- S-0042 EFFECTS OF TRANSPORTATION NOISE ON BLOOD PRESSURE
Wolfgang Babisch, Elise van Kempen.
- S-0043 EFFECTS OF TRANSPORTATION NOISE ON MYOCARDIAL INFARCTION
Martin Roosli.
- S-0044 UNDERSTANDING THE COMMON EXPOSURE TO TRANSPORTATION NOISE AND AIR POLLUTION AND THEIR POTENTIAL COMMON HEALTH ENDPOINTS
Klea Katsouyanni, Konstantina Dimakopoulou, Kees de Hoogh, Sarah Floud, Michael Petrakis, Archontoula Chaloulakou, Georgios Grivas, Konstantinos Vogiatzis, Charalambos Antoniadis.
Discussion

11:00 – 11:30 COFFEE BREAK

OS.25 EXPOSURE ASSESSMENT AIR POLLUTION I

11:30 – 13:00

Auditorium

Chairs: Gerard Hoek & Jim Zhang

- O-0145 A FLEXIBLE SPATIO-TEMPORAL MODEL FOR AIR POLLUTION WITH SPATIO-TEMPORAL COVARIATES
Johan Lindstrom, Adam Szpiro, Paul Sampson, Lianne Sheppard, Assaf Oron, Mark Richards, Tim Larson.
- O-0146 PLASMA FLUORESCENT OXIDATION PRODUCTS AND SHORT-TERM AMBIENT AND OCCUPATIONAL PARTICULATE EXPOSURES
Jaime E Hart, Tianying Wu, Francine Laden, Eric Garshick.
- O-0147 MEASURING PERSONAL EXPOSURE TO BLACK CARBON: THE IMPORTANCE OF BEING IN OR NEAR TRAFFIC
Evi Dons, Martine Van Poppel, Jan Theunis, Geert Wets, Luc Int Panis.
- O-0148 VALIDATION OF EXPOSURE ASSESSMENT IN ESCAPE, THE VE3SPA PROJECT
Denise Montagne, Mark Nieuwenhuijsen, Timo Lanki, Audrey de Nazelle, Meritxell Portella, Arto Pennanen, Gerard Hoek, Bert Brunekreef.
- O-0149 DEVELOPING A LAND USE REGRESSION MODEL FOR ULTRAFINE PARTICLE CONCENTRATIONS IN VANCOUVER, CANADA
Rebecca Abernethy, Michael Brauer, Ryan Allen.
- O-0150 DO SATELLITE TROPOSPHERIC NO₂ DATA IMPROVE MODELLING OF GROUND LEVEL AMBIENT NO₂ CONCENTRATIONS?
Gerard Hoek, Marloes Eeftens, Rob Beelen, Paul Fischer, Bert Brunekreef, Pepijn Veefkind.

OS.26 CLIMATE CHANGE, TEMPERATURE

11:30 – 13:00

Room 6

Chairs: Xavier Basagana & Kris Ebi

- O-0151 HEAT AND CAUSE-SPECIFIC MORTALITY IN ADULTS AND INFANTS
Xavier Basagana, Claudio Sartini, Jose Barrera-Gómez, Payam Dadvand, Jordi Cunillera, Bart Ostro, Jordi Sunyer, Mercedes Medina-Ramón.
- O-0152 COLD SPELLS AND HOSPITALIZATIONS DUE TO HYPOTHERMIA: UNRECOGNIZED THREATS FOR ELDERLY WITH DIABETES
Alexander Liss, Elena Naumova.
- O-0153 EVALUATION OF A HEAT VULNERABILITY INDEX ON ABNORMALLY HOT DAYS: AN APPLICATION OF ENVIRONMENTAL PUBLIC HEALTH TRACKING DATA
Colleen Reid, Jennifer Mann, Ruth Alfasso, Paul English, Galatea King, Helene Margolis, Joseph Sabato, Nancy West, Kathleen Navarro, John Balmes.
- O-0154 URBAN HEAT ISLAND AND SOCIO-ECONOMIC POSITION AS FACTORS THAT INCREASE THE RISK OF HEAT-RELATED MORTALITY IN ROME, ITALY
Francesca K. de'Donato, Michela Leone, Massimo Stafoggia, Claudia Marino, Roberto Fabrizi, Paola Michelozzi.
- O-0155 ARE HEAT PREVENTION PROGRAMS EFFECTIVE? A PRE-POST ANALYSIS OF THE EFFECT OF TEMPERATURES ON MORTALITY OF THE ELDERLY IN 16 ITALIAN CITIES
Patrizia Schifano, Michela Leone, Francesca de'Donato, Anna Maria Bargagli, Daniela D'Ippoliti, Paola Michelozzi.
- O-0156 TEMPERATURE VARIABILITY AND LONG-TERM SURVIVAL
Antonella Zanobetti, Marie O'Neill, Carina Gronlund, Joel Schwartz.

OS.27 TRANSPORT AND HEALTH I

11:30 – 13:00

Room 5

Chairs: Alex Macmillan & Luc Int Panis

- O-0157 THE INTRODUCTION OF LONDON'S CONGESTION CHARGE ZONE AND CHANGES IN ROAD CASUALTIES
Rebecca Steinbach, Paul Wilkinson, Chris Grundy, Phil Edwards.

- O-0158 MOVING OUT OF CARS AND ONTO BIKES: IMPACT ON HEALTH, AIR POLLUTION AND GREENHOUSE GAS EMISSIONS IN THE NEW ZEALAND URBAN SETTING
Graeme Lindsay, [Alex Macmillan](#), Alistair Woodward.
- O-0159 PROSPECTIVE STUDY ON MINOR ACCIDENT AND INJURY RISKS PER TRAVELLED DISTANCE FOR CYCLISTS
[Luc Int Panis](#), Grégory Vandenbulcke-Plasschaert, Bas de Geus, Joris Aertsens, Bart Degraeuwe.
- O-0160 COMMUTE BEHAVIOR ASSESSMENT, SIMULATION OF COMMUTE PATTERNS AND EXPOSURE TO AIR POLLUTION IN THE REGION OF BASEL, SWITZERLAND
[Martina Ragettli](#), Harish C. Phuleria, Charlotte Braun-Fahrländer, Laura Perez, Nino Künzli, L.-J. Sally Liu.
- O-0161 NO EXERCISE-INDUCED INCREASE IN SERUM BDNF AFTER CYCLING NEAR A MAJOR TRAFFIC ROAD
[Inge Bos](#), Lotte Jacobs, Tim Nawrot, Bas de Geus, Rudi Torfs, Luc Int Panis, Romain Meeusen.
- O-0162 TEMPERATURE EFFECTS ON THE TRANSPORT-RELATED INJURIES IN KOREA
[Yoonhee Kim](#), Ho Kim, Sang-Do Shin, Yun-Chul Hong.

OS.28

11:30 – 13:00

POPs AND HEALTH II

Room 3

Chairs: [Matt Longnecker](#) & [Miquel Porta](#)

- O-0163 EPIGENETIC PROGRAMMING OF ASTHMA BY IN UTERO EXPOSURE TO p,p'-DDE
[Eva Morales](#), Nadia Vilahur, Mariona Bustamante, Georgia Escaramis, Magda Montfort, Maties Torrent, Xavier Estivill, Jordi Sunyer.
- O-0164 IN-UTERO EXPOSURE TO DIOXINS AND DIOXIN-LIKE COMPOUNDS AND ANOGENITAL DISTANCE IN NEWBORNS OF THE RHEA STUDY IN CRETE
[Marina Vafeiadi](#), Eleni Papadopoulou, Harrie Besselink, Kleopatra Mathianaki, Polykseni Karakosta, Ariana Spanaki, Leda Chatzi, Antonis Koutis, Martine Vrijheid, Manolis Kogevinas.
- O-0165 INFLUENCE OF THE PRENATAL PCDD/F AND PCB EXPOSURE ON ADRENARCHE AND GENDER SPECIFIC ROLE BEHAVIOUR - RESULTS FROM THE DUISBURG BIRTH COHORT STUDY
[Monika Kasper-Sonnenberg](#), Jürgen Wittsiepe, Annette Rennert, Claudia Cramer, Ulrich Ranft, Gerhard Winneke, Peter Fürst, Gerhard Binder, Michael Wilhelm.
- O-0166 SERUM DDT IN MOTHERS AND EARLY MENOPAUSE IN DAUGHTERS: A FIFTY YEAR FOLLOW-UP OF THE CHILD HEALTH AND DEVELOPMENT STUDIES PREGNANCY COHORT
[Barbara Cohn](#), Piera Cirillo, Nickilou Krigbaum, Julie Flom, Heba Tawfik, Mary Beth Terry.
- O-0167 PRENATAL EXPOSURE TO PBDE'S AND CHILD BEHAVIOR AT 3-5 YEARS
[Julie Herbstman](#), Sally Lederman, Andreas Sjodin, Robin Whyatt, Virginia Rauh, Frederica Perera.
- O-0168 ENVIRONMENTAL EXPOSURE OF CHILDREN TO POLYCHLORINATED BIPHENYLS AND DEFICITS IN COCHLEAR STATUS
[Tomas Trnovec](#), L'ubica Palkovicová, Sona Wimmerová, Kinga Lancz, Juraj Tihányi, Anna Fabísiková, Kamil Conka, Arturo Moleti, Renata Sisto, Irva Hertz-Picciotto.

S.9

11:30 – 13:00

SYMPOSIUM ► STUDYING LONG-TERM HEALTH EFFECTS OF ENVIRONMENTAL DISASTERS: LESSONS FROM THE PAST

Room 8

Chairs: [David Savitz](#) & [Eric Lebret](#)

- S-0045 OVERVIEW OF ENVIRONMENTAL DISASTERS OF HUMAN AND NATURAL ORIGIN
[Erik Lebret](#).
- S-0046 LONG-TERM HEALTH STUDIES RELATED TO THE SEVESO DISASTER
[Pier Alberto Bertazzi](#).
- S-0047 LONG-TERM HEALTH STUDIES RELATED TO THE CHERNOBYL DISASTER
[Elisabeth Cardis](#).
- S-0048 LONG-TERM HEALTH STUDIES RELATED TO THE PRESTIGE OIL SPILL
[Jan-Paul Zock](#).
- S-0049 LONG-TERM HEALTH STUDIES RELATED TO THE MONTSERRAT VOLCANO ERUPTIONS
[Anna Hansell](#).
- S-0050 CONCLUDING REMARKS
[David Savitz](#).
Discussion

OS.29

11:30 – 13:00

GENETICS AND EPIGENETICS

Room 4

Chairs: [Stephanie London](#) & [Francine Kauffmann](#)

- O-0170 EXPOSURE TO LOW DOSES OF BENZENE AND ALTERATIONS IN MITOCHONDRIAL DNA COPY NUMBER: A MULTI-CENTER STUDY
Michele Carugno, [Andrea Baccarelli](#), Laura Dioni, Mirjam Hoxha, Matteo Bonzini, Silvia Fustinoni, Pierluigi Cocco, Domenico Franco Merlo, Pier Alberto Bertazzi, Angela Cecilia Pesatori.
- O-0171 METAL-RICH PARTICULATE MATTER INFLUENCE EPSTEIN-BARR VIRUS METHYLATION IN PERIPHERAL BLOOD LEUKOCYTES
[Valentina Bollati](#), Laura Angelici, Matteo Bonzini, Letizia Tarantini, Pietro Apostoli, Andrea Baccarelli, Pier Alberto Bertazzi.
- O-0172 REPETITIVE ELEMENT METHYLATION EXTENT IS ASSOCIATED WITH INFANT GROWTH AND DEVELOPMENTALLY RELATED GENE METHYLATION
[Charlotte Wilhelm-Benartzi](#), Andres Houseman, Graham Poage, Devin Koestler, Matthew Maccani, Scott Langevin, Luc Gagne, James Padbury, Carmen.

- O-0173 VARIATION IN GENES REGULATING MALE REPRODUCTIVE DEVELOPMENT IN RELATION TO ANOGENITAL DISTANCE MEASUREMENTS, POTENTIAL MARKERS OF IN UTERO ANDROGENIZATION
Sheela Sathyanarayana, Shanna Swan, Federico Farin, Hui-Wen Wilkerson, Richard Grady, Chuan Zhou, Stephen Schwartz.
- O-0174 TWO-PHASE CASE-CONTROL STUDY DESIGN FOR BIOMARKER MEASUREMENTS IN GENE-ENVIRONMENT INTERACTIONS STUDIES
Duncan Thomas, Sandrah Eckel, Kiros Berhane.
- O-0169 BIOMARKERS IN ENVIRONMENTAL EPIDEMIOLOGY: ETHICAL CHALLENGES
Wael Al-Delaimy.

S.10 SYMPOSIUM ▶ CHALLENGES AND OPORTUNITIES FOR USING DATA FOR MULTIPLE POLLUTANTS IN AIR POLLUTION EPIDEMIOLOGICAL STUDIES

- 11:30 – 13:00 Room 11
Chairs: Helen Suh & Ron Wyzga
- S-0051 STATISTICAL METHODS FOR ENVIRONMENTAL HEALTH STUDIES OF MULTIPLE POLLUTANTS
Francesca Dominici.
- S-0052 METHODS FOR ESTIMATING HEALTH EFFECTS OF MULTIPOLLUTANT MIXTURES IN COHORT STUDIES
Sverre Vedal, Adam Szpiro.
- S-0053 ASSOCIATIONS OF SOURCE-RESOLVED PARTICULATE AIR POLLUTION MIXTURES AND CARDIORESPIRATORY EMERGENCY DEPARTMENT VISITS IN ST. LOUIS, MO-IL
Stefanie Sarnat, Jeremy Sarnat, Andrea Winquist, Jay Turner, James Schauer, Mitchel Klein, Paige Tolbert.
- S-0054 ATTEMPTS TO DISCRIMINATE AMONG COMBUSTION SOURCES IN ASSESSING THE HEALTH EFFECTS OF AIR POLLUTION
Rebecca Klemm, Ron Wyzga.
- S-0055 THE RELATIONSHIP BETWEEN POLLUTANT PROPERTIES AND HOSPITAL ADMISSIONS IN ATLANTA, GA
Helen Suh, Antonella Zanobetti, Joel Schwartz, Brent Coull.
- S-0056 APPLYING ALTERNATIVE EXPOSURE METRICS IN A MULTIPOLLUTANT EPIDEMIOLOGICAL STUDY
Haluk Ozkaynak, Vlad Isakov, Lisa Baxter, Stephen Graham, Stefanie Sarnat, Jeremy Sarnat, James Mulholland.
Discussion

S.11 SYMPOSIUM ▶ ORGANOPHOSPHATE PESTICIDES & NEURODEVELOPMENT : FINDING FROM NIEHS/EPA FUNDED CHILDREN'S ENVIRONMENTAL HEALTH CENTERS

- 11:30 – 13:00 Room 12
Chair: Bruce Lanphear
- S-0057 OVERVIEW OF SYMPOSIUM GOALS
Bruce Lanphear.
- S-0058 PRENATAL ORGANOPHOSPHATE AND CHILD NEURODEVELOPMENT: RESULTS FROM THE MOUNT SINAI CHILDREN'S ENVIRONMENTAL HEALTH AND DISEASE PREVENTION RESEARCH CENTER
Stephanie Engel.
- S-0059 7-YEAR NEURODEVELOPMENTAL CONSEQUENCES OF PRENATAL EXPOSURE TO CHLORPYRIFOS, A COMMON ORGANOPHOSPHATE PESTICIDE
Virginia Rauh, Sriyesh Arunajadai, Megan Horton, Frederica Perera, Lori Heopner, Dana Barr, Robin Whyatt.
- S-0060 RESULTS FROM THE CHAMACOS STUDY OF CHILDREN'S ENVIRONMENTAL HEALTH
Brenda Eskenazi, Maryse Bouchard, Kim G. Harley, Asa Bradman, Amy Marks, Katie Kogut, Celina Trujillo, Nina Holland, Dana Boyd Barr.
- S-0061 EXPOSURE ASSESSMENT: PAST AND PRESENT
Dana Boyd Barr.
- S-0062 WRAP UP - SUMMARY OF EVIDENCE, STRENGTHS, LIMITATIONS AND NEXT STEPS
Bruce Lanphear.
Discussion

13:00 – 14:00 LUNCH

13:15 – 14:00 MEETING ISEE MEMBERS IN EUROPEAN COUNTRIES: DISCUSSION FOR THE FORMATION OF A EUROPEAN CHAPTER IN ISEE ▶ Room 3

14:00 – 16:00 POSTER VIEWING

15:00 – 16:00 POSTER DISCUSSION

PD.7 MEASURING PARTICULATE MATTER IN LOW-INCOME COUNTRIES

- 15:00 – 16:00 Room 5
Chairs: Julian Marshall & Ryan Allen
- P-0034 AIR POLLUTION AND BLOOD PRESSURE IN BEIJING, CHINA
Andrea Baccarelli, Francesco Barretta, Chang Dou, Xiao Zhang, John P. McCracken, Anaité Díaz, Pier Alberto Bertazzi, Joel Schwartz, Sheng Wang, Lifang Hou.
- P-0045 SIZE-FRACTIONED PARTICULATE AIR POLLUTION AND CARDIOVASCULAR EMERGENCY ROOM VISITS IN BEIJING, CHINA
Liqun Liu, Susanne Breitner, Alexandra Schneider, Josef Cyrus, Irene Brüske, Ulrich Franck, Alfred Wiedensohler, Min Hu, Xiaochuan Pan, Annette Peters.

- P-0498 POLLUTION CHARACTERISTICS AND RESIDENTIAL INDOOR-OUTDOOR RELATIONSHIPS OF PM10 ELEMENT IN ONE COMMUNITY IN TIANJIN
Fei He, Zhipeng Bai.
- P-0500 SOURCE IDENTIFICATION AND APPORTIONMENT OF PARTICULATE MATTER IN ACCRA, GHANA
Zheng Zhou, Kathie Dionisio, Raphael Arku, Thiago Verissimo, Brent Coull, Americo Kerr, Jose Vallarino, John Spengler, Samuel Agyei-Mensah, Majid Ezzati.
- P-0528 AMBIENT AND PERSONAL PM10 EXPOSURE IN WOMEN IN RELATION TO TIME ACTIVITY, SOCIOECONOMIC STATUS, AND LOCATION OF RESIDENCE IN DELHI, INDIA.
Anisha Misra, Mukesh Khare, Tanja Pless-Mulloli.
- P-0622 ASSESSMENT OF EXPOSURE TO POTENTIAL LUNG CARCINOGENS IN XUANWEI AND FUYUAN, CHINA: PARTICULATE EXPOSURE FROM COOKING AND HEATING STOVES
Roel Vermeulen, Hu Wei, Boris Reiss, Nathaniel Rothman, Jun Xu, Dean Hosgood, LinLin Zhang, Guoping Wu, Fusheng Wei, Lan Qing.
- P-0636 INDOOR AIR POLLUTION AND BLOOD PRESSURE IN ADULT WOMEN LIVING IN RURAL CHINA
Jill Baumgartner, James Schauer, Majid Ezzati, Lin Lu, Chun Cheng, Jonathan Patz, Leonelo Bautista.

PD.8 AIR POLLUTION IN TRAVEL MICRO ENVIRONMENTS

15.00 – 16.00

Room 3

Chairs: **Audrey de Nazelle & Scot Fruin**

- P-1011 CHARACTERIZING ULTRAFINE PARTICLE NUMBER REDUCTIONS INSIDE VEHICLES
Hudda Neelakshi, Kostenidou Evangelia, Delfino Ralph, Sioutas Constantinos, Fruin Scott.
- P-1018 DIFFERENCE IN PERSONAL EXPOSURE TO PARTICULATE AIR POLLUTANTS IN USERS OF DIFFERENT TRANSPORT MODES (AUTOMOBILE, BUS, SUBWAY AND BICYCLE) IN SANTIAGO, CHILE: STUDY DESIGN
Pablo Ruiz, Julian Marshall, William Nazaroff.
- P-1024 TRANSIENT EXPOSURE TO VEHICLE EXHAUST PLUMES INSIDE NEW DELHI AUTO-RICKSHAWS
Joshua Apte, Julian Marshall, William Nazaroff.
- P-1026 RELATION BETWEEN COMMUTER AND EXPOSURE TO POLLUTION RELATED TO TRAFFIC IN BARCELONA
David Martinez, Audrey De Nazelle, Scott Fruin, Dane Westerdahl, Julian Marshall, Jaume Matamala, Nadine Kubesch, Anna Ripoll, Mark Nieuwenhuijsen.
- P-1032 PREDICTING AIR EXCHANGE RATES AND PARTICLE LOSSES INSIDE VEHICLES
Scott Fruin, Neelakshi Hudda, Evangelia Kostenidou, Ralph Delfino, Constantinos Sioutas.
- P-1034 EXPOSURE TO FINE AND ULTRAFINE PARTICLES OF REGULAR BIKE USERS COMMUTING THROUGH DIFFERENT ROUTES IN SANTIAGO, CHILE
Paulina Pino, Pablo Ruiz, Faustino Alonso, Verónica Iglesias.

PD.9 ENVIRONMENTAL EXPOSURES AND CHILD HEALTH

15.00 – 16.00

Room 8

Chair: **Jordi Sunyer**

- P-0248 ADOLESCENT NEIGHBORHOOD ENVIRONMENT AND ELEVATED BLOOD PRESSURE IN YOUNG ADULTHOOD
Shakira Suglia, Ana Diez-Roux, Renee Boynton-Jarrett, Megan Sandel, Jonathan Levy.
- P-0619 DAMP/MOULDY HOMES AND DEPRESSION OF 9-10 YEAR OLD CHILDREN
Peter Rudnai, Agnes Vetro, Mihaly J. Varro, Tamas Rudnai, Annamaria Macsik, Renata Szentmihalyi.
- P-0632 CONCENTRATION-RISK RELATIONSHIP FOR VOLATILE ORGANIC COMPOUNDS IN INDOOR AIR AND RESPIRATORY HEALTH OF CHILDREN IN LEIPZIG, GERMANY
Uwe Schlink, Carolin Rösch, Ulrich Franck, Stefan Röder, Michael Borte, Olf Herbarth, Irina Lehmann.
- P-0635 EXPOSURE VARIABILITY AND BEHAVIOUR OF INDOOR AND OUTDOOR AIR POLLUTANTS IN PRIMARY SCHOOLS IN THE UNITED KINGDOM
Ariana Zeka, Benjamin J. Jones, Yulia Anopa, Anna Koulkova.
- P-0876 ASSOCIATION BETWEEN PESTICIDES EXPOSURE AND ATTENTION-DEFICIT/HYPERACTIVITY DISORDER
Mei-Lien Chen, I-Fang Mao, Chun-Cheng Feng, Chung-Kai Wu, Ying-Sheue Chen.
- P-0940 EFFECTS OF PRENATAL EXPOSURE TO ORGANOCHLORINES AND MERCURY ON GROWTH PARAMETERS IN INUIT NEWBORNS FROM THE CANADIAN ARCTIC
Gina Muckle, Renee Dallaire, Pierre Ayotte, Eric Dewailly, Nadine Forget-Dubois, Sandra W. Jacobson, Joseph L. Jacobson.

PD.10 HOW TO ESTIMATE EXPOSURES EARLY IN LIFE: DIFFERENT OPTIONS, DIFFERENT RESULTS?

15.00 – 16.00

Room 4

Chairs: **Greet Schoeters & Maribel Casas**

- P-0227 URINARY CONCENTRATIONS OF BISPHENOL-A IN AN URBAN MINORITY BIRTH COHORT IN NEW YORK CITY, PRENATAL THROUGH AGE 7 YEARS
Lori Hoepner, Robin Whyatt, Allan Just, Antonia Calafat, Frederica Perera, Andrew Rundle.
- P-0228 THE UNIQUE PHARMACOKINETIC CHARACTERISTICS OF BISPHENOL-A IN AMNIOTIC FLUID: THE IMPLICATION OF FETAL EXPOSURE
Chensheng Lu, Andrea Edlow, Nicole Smith, Mei Chen, Thomas McElrath.
- P-0428 TRANSFER RATE DIFFERENCE ACCORDING TO THE CONGENERS AND ISOMERS SHOULD BE CONSIDERED IN RISK ASSESSMENT OF FETAL EXPOSURE TO PBDEs AND POPs
Chisato Mori, Yoshiharu Matsuno, Takeyoshi Fujisaki, Emiko Todaka, Michiko Shimoda, Hiroko Nakaoka, Masamichi Hanazato, Noriko Nakamura.
- P-0716 MERCURY LEVELS IN URINE AND HAIR, PERIPHERAL NERVE FUNCTION AND SINGLE NUCLEOTIDE POLYMORPHISMS RELATED TO MERCURY METABOLISM
Yi Wang, Jaclyn Goodrich, Brenda Gillespie, Robert Werner, Niladri Basu, Alfred Franzblau.

P-0904 COMPARISON OF PERFLUORINATED COMPOUNDS CONCENTRATIONS IN MATERNAL SERUM AND AMNIOTIC FLUID
Cheryl Stein, Stephanie Engel, Antonia Calafat.

PD.11 LEAD AND HEALTH

15.00 – 16.00

Room 11

Chairs: Fabian Mendez & Howard Hu

P-0427 ASSOCIATIONS BETWEEN BLOOD LEAD LEVELS OF FRENCH CHILDREN AND ENVIRONMENTAL LEAD CONTENT: RISK BASED ENVIRONMENTAL LEAD CONCENTRATIONS LEVELS FOR POLICY MAKING
Youssef Oulhote, Anne Etchevers, Alain Le Tertre, Jean Paul Lucas, Corinne Mandin, Barbara Le Bot, Philippe Gloennec.

P-0701 ASSOCIATIONS BETWEEN BLOOD LEAD AND KIDNEY OUTCOMES IN ADOLESCENTS FROM A SMELTER COMMUNITY
Virginia Weaver, Ana Navas-Acien, Ellen Silbergeld, Alison Singer, Jeffrey Fadrowski, Gonzalo Vargas, Marisela Rubio, Stephen Rothenberg, Eliseo Guallar.

P-0706 EXPOSURE TO LEAD AND COGNITIVE FUNCTION IN OLDER WOMEN
Melinda C. Power, Jennifer Weuve, Linda H. Nie, Fran Grodstein, Susan Korrick, Marc G. Weisskopf.

P-0731 CUMULATIVE EXPOSURE TO LEAD IS ASSOCIATED WITH INCREASED RISK OF TYPE-2 DIABETES: THE VA NORMATIVE AGING STUDY (NAS)
Siyng Huang, Sung Kyun Park, Bhramar Mukherjee, Huiling Nie, David Sparrow, Howard Hu.

P-1001 BLOOD LEAD LEVELS IN SCHOOLCHILDREN LIVING NEAR TO AN INDUSTRIAL ZONE IN CALI, COLOMBIA: THE SYNERGISTIC ROLE OF SOCIOECONOMIC CONDITION
Paola Andrea Filigrana, Fabián Méndez.

P-1006 THE INTERACTION BETWEEN SOCIAL DISADVANTAGE AND ENVIRONMENTAL HEALTH: SES, LEAD, AND BLOOD PRESSURE
Margaret Hicken, Gilbert Gee, Jeffrey Morenoff, Cathleen Connell, Rachel Snow, Howard Hu.

PD.12 OCCUPATIONAL HEALTH

15.00 – 16.00

Room 12

Chair: Marc Schenker

P-0702 RELATIONSHIP BETWEEN BLOOD LEAD LEVELS AND PULMONARY FUNCTION
Sujin Park, Su Ryeon Noh, Ae Ri Oh, Domyung Paek.

P-0728 AS, HG AND NI LEVELS IN SERUM AND SEMINAL PLASMA AND MALE INFERTILITY
Margherita Ferrante, Aldo Calogero, Gea Oliveri Conti, Vincenzo Vicari, Maria Fiore, Giovanni Arena, Salvatore Sciacca, Rosario D'Agata.

P-0782 OCCUPATIONAL NOISE EXPOSURE AND HEARING LOSS AMONG FIREFIGHTERS IN THE UNITED STATES
Oi Saeng Hong, Dal Lae Chin, Jamie Feld, Steven Vogel.

P-0786 EARLY INCIDENCE OF OCCUPATIONAL ASTHMA AMONG YOUNG BAKERS AND HAIRDRESSERS
Thomas Remen, Stephanie Acouetey, Christophe Paris, Mathias Poussel, Bruno Chenuel, Bernard Hannhart, Denis Zmirou-Navier,

P-0794 A CASE-CONTROL STUDY ON THE IMPACTS OF HIGH AMBIENT TEMPERATURE ON THE INCIDENCE OF UROLITHIASIS AMONG OUTDOOR WORKERS IN GUANGZHOU CHINA
Thomas Remen, Stephanie Acouetey, Christophe Paris, Mathias Poussel, Bruno Chenuel, Bernard Hannhart, Denis Haiming Luo,

P-0799 OCCUPATIONAL RISK ASSESSEMENT AND HEALTH MONITORING AMONG VETERINARY DOCTORS
Ligia Maria Stoica, Mihai Cristescu

P-0807 LUNG CANCER AND EXPOSURE TO MINERAL WOOLS: THE ICARE STUDY
Florence Guida, Farida Lamkarkach, Sylvie Cénée, Diane Cyr, Aude Lacourt, Patrick Brochard, Stéphane Ducamp, Christophe Paris, Danièle Luce, Isabelle Stücker

P-0818 SKINJEM: A JOB EXPOSURE MATRIX FOR OCCUPATIONAL SKIN CANCER RISK
Cheryl E. Peters, Paul A. Demers

P-0878 ASSOCIATION BETWEEN ORGANOCHLORINE PESTICIDE EXPOSURE AND THYROID HORMONES IN FLORICULTURE WORKERS
Marina Lacasaña, Inmaculada López-Flores, Clemente Aguilar-Garduño, Julia Blanco-Muñoz, Miguel Rodríguez-Barranco, Susana Bassol, Mariano E Cebrian

16:00 – 16:30 COFFEE BREAK

OS.30 AIR POLLUTION AND RESPIRATORY DISEASES II

16:30 – 18:00

Auditorium

Chairs: Francine Laden & Goran Pershagen

O-0175 CARDIO-RESPIRATORY BIOMARKER RESPONSES OF HEALTHY YOUNG ADULTS TO DRASTIC AIR QUALITY CHANGES
Junfeng Zhang, Tong Zhu, Howard Kipen, Guangfa Wang, Wei Huang, David Rich, Ping Zhu, Yuedan Wang, Min Hu, Scott Diehl.

O-0176 SHORT-TERM EFFECTS OF AIR POLLUTION IN A COHORT OF PATIENTS WITH CHRONIC OBSTRUCTIVE PULMONARY DISEASE
Annunziata Faustini, Massimo Stafoggia, Silvia Cascini, Francesco Troiano, Marina Davoli, Francesco Forastiere.

O-0177 TRAFFIC-RELATED AIR POLLUTION, ASTHMA AND HAY FEVER AT THE AGE OF 11
Ulrike Gehring, Alet H. Wijga, Paul Fischer, Johan C. de Jongste, Marjan Kerkhof, Dirkje S. Postma, Henriette A. Smit, Bert Brunekreef.



- O-0178 EXPOSURE TO AIR POLLUTION FROM TRAFFIC AND CHILDHOOD ASTHMA IN THE SWEDISH BIRTH COHORT BAMSE
Olena Gruzieva, Göran Pershagen, Anna Bergström, Tomas Lind, Erik Melén, Tom Bellander.
- O-0179 LUNG FUNCTION AND AIR POLLUTION IN AUSTRALIAN SCHOOL CHILDREN
Gail Williams, Guy Marks, Bin Jalaludin, Lyn Denison.
- O-0180 OBESITY AND METABOLIC SYNDROME: RISK FACTORS FOR AIR POLLUTION RELATED ASTHMA HOSPITAL ADMISSIONS
Kevin Cromar, Kaz Ito, Robert Silverman, George Thurston.

OS.31 EXPOSURE ASSESSMENT AIR POLLUTION II

16:30 – 18:00

Room 6

Chairs: **Paul Fisher & Xavier Querol**

- O-0181 EFFECT OF THE NUMBER OF MEASUREMENT SITES ON LAND USE REGRESSION (LUR) MODELS OF AIR POLLUTANTS
Xavier Basagana, David Agis, Inma Aguilera, Marcela Rivera, Maria Foraster, Audrey de Nazelle, Nino Kunzli.
- O-0182 IMPACT ESTIMATION OF THE EYJAFJALLAJÖKULL ERUPTION ON THE GROUND LEVEL OF PM10 IN AUGSBURG, GERMANY
Josef Cyrus, Mike Pitz, Annette Peters, Jianwei Gu, Jens Soentgen.
- O-0183 SPATIAL PATTERNS OF PERSONAL EXPOSURE TO PARTICULATE POLLUTION IN ACCRA NEIGHBORHOODS
Raphael Arku, Kathie Dionisio, Zheng Zhou, Jose Vallarino, Allison Hughes, John Spengler, Samuel Agyei-Mensah, Majid Ezzati.
- O-0184 EXPOSURE ASSESSMENT OF SPECIFIC CHEMICAL COMPONENTS AT STREET, URBAN AND REGIONAL SITES IN FOUR EUROPEAN LOCATIONS OF THE ESCAPE STUDY
Aleksandra Jedynska, Ingeborg Kooter, Gerard Hoek, Josef Cyrus, Christian Madsen, Mark Nieuwenhuijsen, Audrey de Nazelle, Bert Brunekreef.
- O-0185 ASSESSMENT OF VOLATILE ORGANIC COMPOUNDS IN NEWBORN BABIES' HOMES: AN ENVIRONMENTAL INVESTIGATION IN THE PARIS BIRTH COHORT
Céline Roda, Anna Ramond, Isabelle Kousignian, Isabelle Momas.
- O-0186 SOURCE APPORTIONMENT OF AIR POLLUTION IN AN URBAN AREA INFLUENCED BY LOCAL INDUSTRIES IN CALI, COLOMBIA
Nathalie Abrahams, Paola Filigrana, Fabian Mendez.

OS.32 PHTHALATES, BPA AND HEALTH

16:30 – 18:00

Room 5

Chairs: **Russ Hauser & Remy Slama**

- O-0189 PRENATAL PHTHALATE EXPOSURE AND CHILDHOOD WHEEZING IN A MULTIETHNIC COHORT
Jessie Buckley, Stephanie Engel, Mary Wolff, Susan Teitelbaum, Antonia Calafat.
- O-0188 PRENATAL EXPOSURE TO BUTYLBENZYL PHTHALATE AND EARLY ECZEMA IN SEROATOPIC VERSUS NONATOPIC CHILDREN
Allan Just, Robin Whyatt, Matthew Perzanowski, Antonia Calafat, Frederica Perera, Inge Goldstein, Rachel Miller.
- O-0189 VARIABILITY OF URINARY PHTHALATE CONCENTRATIONS BEFORE AND DURING PREGNANCY
Joe Braun, Antonia Calafat, Russ Hauser.
- O-0190 EXPOSURE TO BISPHENOL A DURING PREGNANCY AND MATERNAL AND NEONATAL THYROID HORMONE LEVELS
Jonathan Chevrier, Kim Harley, Asa Bradman, Antonia Calafat, Xiaoyun Ye, Brenda Eskenazi.
- O-0191 RISK OF PREGNANCY LOSS ACCORDING TO URINARY PHTHALATE LEVELS AROUND THE TIME OF CONCEPTION
Gunnar Toft, Bo A.G. Jönsson, Christian H. Lindh, Tina Kold Jensen, Niels H. Hjollund, Anne Vested, Jens Peter Bonde.
- O-0192 PHTHALATES IN RELATION TO AUTISM AND DEVELOPMENTAL DELAY: EXPLORATORY ANALYSES FROM THE CHARGE STUDY
Irva Hertz-Picciotto, Deborah H. Bennett, Hwei-An Chu.

S.12 SYMPOSIUM ▶ VICKY CRISTINA BARCELONA (AND JOAN, BAR T, XAVIER²): AN OVER VIEW OF BARCELONA AND ITS PUBLIC HEALTH ISSUES

16:30 – 18:00

Room 3

Chairs: **Francesco Forastiere & Bart Ostro**

- S-0063 THE ROLE OF PUBLIC HEALTH IN THE DEVELOPMENT OF BARCELONA
Joan R Villalbi.
- S-0064 AIR QUALITY PROBLEMS AND SOLUTIONS IN BARCELONA
Xavier Querol.
- S-0065 THE EFFECT OF PARTICULATE MATTER SOURCES ON MORTALITY IN BARCELONA
Bart Ostro.
- S-0066 WATER QUALITY IN BARCELONA: CANCER, ASTHMA AND REPRODUCTIVE OUTCOMES
Cristina Villanueva.
- S-0067 HEAT AND MORTALITY IN BARCELONA
Xavier Basagaña.
- Discussion

OS.33 EMF / MOBILE PHONES

16:30 – 18:00

Room 8

Chairs: **Siegel Sadetski & Anke Huss**

- O-0193 MATERNAL EXPOSURE TO MAGNETIC FIELDS (MFS) DURING PREGNANCY IN RELATION TO THE RISK OF ASTHMA IN OFFSPRING
DeKun Li, Hong Chen, Roxana Odouli.

- O-0194 CANCERS NEAR HIGH VOLTAGE OVERHEAD POWER LINES
Paul Elliott, Gavin Shaddick, Kees de Hoogh, Norman Cobley, Catherine Keshishian, Nina Iszatt, David J Briggs, Mireille B Toledano.
- O-0195 A CROSS SECTIONAL INVESTIGATION ON THE HEALTH STATUS IN A POPULATION EXPOSED TO 50Hz MAGNETIC FIELDS IN A DISTRIC OF ROME: HEMATOLOGICAL AND IMMUNOLOGICAL PARAMETERS
Caterina Bruno, Nicola Vanacore, Iaria Del Giudice, Stefano Belli, Rosalba Masciulli, Daniela Ferrari, Roberta Pacifici, Pietro Comba, Robin Foà.
- O-0196 MOBILE PHONE USE AND HEALTH: INNOVATION IN RECRUITMENT TO THE UK COSMOS COHORT STUDY
Mireille B Toledano, Rachel B Smith, James E Bennett, James Brook, Paul Elliott.
- O-0197 MOBI-KIDS; STUDY ON COMMUNICATION TECHNOLOGY, ENVIRONMENT AND BRAIN TUMOURS IN YOUNG PEOPLE
Elisabeth Cardis, Siegal Sadetzki, Hans Kromhout, Michael Kundi, Myron Maslanyj, Franco Merletti, Katja Radon, Roel Vermeulen, Joe Wiart.
- O-0198 MOBILE PHONE USE AND EARLY-CHILDHOOD NEURODEVELOPMENT AT 2 YEARS OF AGE
Pei Hsuan Wu, Ching-Chun LIN, Hua-Fang Liao, Pau-Chung Chen.

S.13 SYMPOSIUM ▶ RESEARCH ON ENVIRONMENTAL HEALTH IN THE EU ORGANISED BY THE EUROPEAN COMMISSION

- 16:30 – 18:00 Room 4
Chair: Tuomo Karjalainen
- S-0068 EUROPEAN UNION SUPPORT FOR RESEARCH ON ENVIRONMENT AND HEALTH ISSUES PAST, PRESENT AND FUTURE
Tuomo Karjalainen.
- S-0069 ENVIRONMENTAL HEALTH RISKS IN EUROPEAN BIRTH COHORTS: THE ENRIECO PROJECT
Mark Nieuwenhuijsen.
- S-0070 EUROPEAN STUDY OF COHORTS FOR AIR POLLUTION EFFECTS: THE ESCAPE PROJECT
Bert Brunekreef.
- S-0071 BIOMARKERS IN ENVIRONMENTAL EPIDEMIOLOGY RESEARCH: THE NEWGENERIS AND ENVIROGENO-MARKERS PROJECTS
Soterios Kyrtopoulos.
- S-0072 DISCUSSION: ACCESS TO EU FUNDING, PROJECT TYPES, PRIORITIES, APPLICATION PROCESS, NATIONAL FUNDING AND AVAILABILITY OF INFORMATION
Closure
Tuomo Karjalainen.

S.14 SYMPOSIUM ▶ UNDERSTANDING AIR POLLUTION IN THE ERA OF GENOME-WIDE ASSOCIATION STUDIES

- 16:30 – 18:00 Room 11
Chairs: Nicole Probst-Hensch & Francine Kauffmann
- S-0073 AIR POLLUTION, GENES AND MECHANISMS
Annette Peters.
- S-0074 THE POTENTIAL ROLE OF EPIGENETICS IN MEDIATING AIR POLLUTION EFFECTS
Andrea Baccarelli.
- S-0075 GENOME-WIDE INTERACTION STUDY (GWIS) ON OCCUPATIONAL HAZARDS AND ASTHMA
Manolis Kogevinas.
- S-0076 OXIDATIVE STRESS PATHWAY GENES, ENVIRONMENTAL TOBACCO EXPOSURE AND ASTHMA
Rachel Nadif, Marta Rava, Ivan Curjuric, Marie-Helene Dizier, Valerie Siroux, Medea Imboden, Nicole Probst-Hensch, Francine Kauffmann, Florence Demenais.
- S-0077 OXIDATIVE STRESS PATHWAY GENES, PARTICULATE MATTER, AND LUNG FUNCTION DECLINE
Ivan Curjuric, Medea Imboden, Rachel Nadif, Ashish Kumar, Emmanuelle Bouzigon, LJ Sally Liu, Thierry Rochat, Florence Demenais, Francine Kauffmann, Nicole Probst Hensch.
Discussion: ON THE EVOLUTION OF SCIENTIFIC COLLABORATION IN THE ERA OF GENOME-WIDE ASSOCIATION STUDIES
Nicole Probst-Hensch, Frank Gilliland, Stephanie London, Francine Kauffmann.

S.15 SYMPOSIUM ▶ NEW HEALTH AND EXPOSURE FINDINGS FROM A LARGE US POPULATION EXPOSED TO HIGH LEVELS OF PFOA

- 16:30 – 18:00 Room 12
Chair: Beate Ritz
- S-0078 INTRODUCTION: THE C8 SCIENCE PANEL, THE 11 STUDIES UNDERWAY, DATA ON EXPOSURE LEVELS IN THE POPULATION
Kyle Steenland.
- S-0079 BIPHASIC DECLINE OF SERUM PERFLUOROOCANOIC ACID (PFOA) CONCENTRATIONS AMONG MID-OHIO VALLEY RESIDENTS
Scott Bartell, Antonia Calafat, Christopher Lyu, Kyle Steenland, Barry Ryan.
- S-0080 MORTALITY AMONG PFOA-EXPOSED WORKERS
Kyle Steenland, Susan Woskie.
- S-0081 EFFECT OF PFOA ON REPRODUCTIVE HEALTH OUTCOMES
David Savitz, Cheryl Stein.

- S-0082 CROSS SECTIONAL AND LONGITUDINAL ASSOCIATIONS BETWEEN PFOS AND PFOA IN THE MID OHIO VALLEY AND CLINICAL MARKERS OF DISEASE
Tony Fletcher, Ben Armstrong, Nicola Fitz-Simon, Giovanni Leonardi, Valentina Gallo, Maria-Jose Lopez-Espinosa, Debapriya Mondal.
- P-0901 RETROSPECTIVE EXPOSURE ESTIMATION AND PREDICTED VERSUS OBSERVED SERUM PERFLUOROOCTANOIC ACID CONCENTRATIONS FOR PARTICIPANTS IN THE C8 HEALTH PROJECT
Hyeong-Moo Shin, Verónica M. Vieira, P. Barry Ryan, Kyle Steenland, Scott M. Bartell.
Overview and Discussion
Beate Ritz (UCLA).

18:00 – 19:15 Room 3
ISEE STUDENT AND NEW RESEARCHER COMMITTEE WORKSHOP.
Multidisciplinary research within environmental epidemiology
A discussion with:
Berna van Wendel de Joode, Professor, Central American Institute for Studies on Toxic Substances, Universidad Nacional.
Brenda Eskenazi, Professor, School of Public health, University of California Berkeley.
Paul Demers, Director, Occupational Cancer Research Center, Cancer Care Ontario.
Greet Schoeters, Professor, Environmental toxicology, Flemish Institute of Technological Research.
Aaron Cohen, Principal Scientist, Health Effects Institute.

Friday, September 16th

07:30 – 08:30 EARLY MORNING SESSIONS

▶ Room 3

GRANT WRITING AND FUNDING MECHANISMS FOR NEW INVESTIGATORS

Klea Katsouyanni, Joel Schwartz & How-ran Guo

▶ Room 8

IS ENVIRONMENTAL EPIDEMIOLOGY PRECAUTIONARY?

Philippe Grandjean

▶ Room 4

HOW TO BE AN EPIDEMIOLOGIST IN LARGE COLLABORATIONS WITH TOXICOLOGISTS, GENETICISTS AND CLINICIANS, AND HOW TO FEED INFORMATION AND IDEAS BACK AND FORTH BETWEEN THESE FIELDS

Beate Ritz

08:30 – 09:00 Auditorium
PLENARY SESSION 4 ▶ EARLY EXPOSURES AND LATER EFFECTS IN LIFE: REVISITING THE BARKER HYPOTHESIS
Keynote: Brenda Eskenazi
Chairs: Manolis Kogevinas & Juha Pekkanen

09:00 – 10:00 Auditorium
PLENARY SESSION 5 ▶ HOW CAN TOXICOLOGY INFORM ENVIRONMENTAL EPIDEMIOLOGY? A NEW APPROACH TO ENVIRONMENTAL HEALTH
Keynote: Linda S. Birnbaum
Chairs: Manolis Kogevinas & Juha Pekkanen

OS.34 AIR POLLUTION AND CARDIOVASCULAR DISEASE III

09:30 – 11:00

Auditorium

Chairs: Klea Katsouyanni & Tim Nawrot

- O-0199 ACUTE CORONARY SYNDROME AND LONG-TERM EXPOSURE TO AIR POLLUTION: A COHORT STUDY
Zorana Andersen, Sara Brebbia, Klaus Andersen, Martin Hvidberg, Steen Jensen, Matthias Ketzel, Steffen Loft, Mette Sørensen, Anne Tjønneland, Kim Overvad.
- O-0200 ASSOCIATIONS BETWEEN TRAFFIC AND CARDIOVASCULAR MORTALITY IN A COHORT OF CALIFORNIA WOMEN
Bart Ostro, Michael Lipsett, Peggy Reynolds, Debbie Goldberg, Andrew Hertz, Cynthia Garcia.
- O-0201 LONG-TERM EXPOSURE TO TRAFFIC NOISE AND TRAFFIC-RELATED AIR POLLUTION AND CORONARY HEART DISEASE MORTALITY
Wenqi Gan, Hugh Davies, Mieke Koehoorn, Lillian Tamburic, Paul Demers, Michael Brauer.
- O-0202 MORTALITY AND EMERGENCY ROOM VISITS AMONG PEOPLE LIVING CLOSE TO GEOTHERMAL SOURCES OF AIR POLLUTION
Francesca Mataloni, Carla Ancona, Marina Davoli, Maria Luisa Carapezza, Francesco Forastiere.
- O-0203 RESIDENTIAL TRAFFIC EXPOSURE AND HYPERTENSION IN AUGSBURG, GERMANY
Kathrin Wolf, Stephanie von Klot, Anne Heber, Matthias Birk, Christa Meisinger, Barbara Thorand, Joachim Heinrich, Josef Cyrys, Annette Peters.
- O-0204 DISTANCE TO ROADWAY AND LONG-TERM SURVIVAL FROM ACUTE MYOCARDIAL INFARCTION
Joshua Rosenbloom, Elissa Wilker, Murray Mittleman.



- OS.35**
09:30 – 11:00 **METALS AND HEALTH II**
Room 6
Chairs: Allen Wilcox & Fabio Barbone
- O-0205 PROSPECTIVE ASSOCIATION OF CADMIUM EXPOSURE WITH FATAL AND NON-FATAL CARDIOVASCULAR DISEASE: THE STRONG HEART STUDY
Maria Tellez-Plaza, Eliseo Guallar, Barbara V Howard, Jason G Umans, Kevin A Francesconi, Walter Goessler, Ana Navas-Acien.
- O-0206 MERCURY, THYROTROPIN, AND THYROID AUTOANTIBODIES IN U.S. WOMEN, USNHANES 2007-2008
Carolyn Gallagher, Jaymie Meliker.
- O-0207 MULTIPLE METAL EXPOSURE IN ADOLESCENTS: ATTENTION-INDUCED STRESS, LEAD, ARSENIC AND CARDIAC VARIABILITY
Stephen J Rothenberg, Eliseo Guallar, Gonzalo G Garcia-Vargas, Ana Navas-Acien, Marisela Rubio-Andrade, Alison B Singer, Virginia Weaver, Patrick J Parsons, Ellen K Silbergeld.
- O-0208 THE ASSOCIATION OF MERCURY, FISH CONSUMPTION AND CHILD DEVELOPMENT IN AN EASTERN MEDITERRANEAN COHORT
Fabio Barbone, Francesca Valent, Darja Mazej, Aikaterini Sofianou, Zdravko Spiric, Janja Tratnik, Marika Mariuz, Sheena Nakou, Maura Bin, Milena Horvat.
- O-0209 NEWBORN BLOOD MERCURY CONCENTRATION AND AUTISM RISK
Stephen McKean, Peter Green, Robin Hansen, Sally Ozonoff, Irva Hertz-Picciotto.
- O-0210 ASSOCIATION OF PRENATAL EXPOSURE TO METHYLMERCURY AND n-3 FATTY ACIDS WITH NEUROBEHAVIORAL TEST PERFORMANCE AT AGES 7 AND 10 YEARS
Anna Choi, Frodi Debes, Esben Budtz-Jorgensen, Kristian Bjerve, Pal Weihe, Philippe Grandjean.

- OS.36**
09:30 – 11:00 **OCCUPATIONAL HEALTH II**
Room 5
Chairs: Leslie Stayner & Paul Demers
- O-0211 A RETROSPECTIVE ASSESSMENT OF OCCUPATIONAL EXPOSURE TO ELEMENTAL CARBON IN THE U.S. TRUCKING INDUSTRY
Mary Davis, Jaime Hart, Francine Laden, Garshick Eric, Thomas Smith.
- O-0212 AIR POLLUTION EXPOSURE AND TELOMERE LENGTH IN HIGHLY EXPOSED SUBJECTS IN BEIJING, CHINA
Lifang Hou, Chang Dou, Umakanth Avula, Sheng Wang, Yue Yu, Xiao Zhang, Mirjam Hoxha, John P. McCracken, Francesco Barretta, Barbara Marinelli.
- O-0213 OCCUPATIONAL EXPOSURES AND CHRONIC OBSTRUCTIVE PULMONARY DISEASE IN A HIGH TUBERCULOSIS PREVALENCE POPULATION
Rajen Naidoo, Nadira Govender, Umesh Laloo.
- O-0214 ASSOCIATION BETWEEN SLEEP DISTURBANCE, MELATONIN AND FEMALE BREAST CANCER
I-Lan Liu, Chi-Hong Chu, Chiou-Jong Chen, Chih-Hung Ku.
- O-0215 EVIDENCE OF OXIDATIVE DNA DAMAGE IN CHILDREN WORKING IN THE SURGICAL INSTRUMENTS INDUSTRY IN SIALKOT, PAKISTAN
Muhammad Sughis, Tim S. Nawrot, Asad Amjad, Ihsan-ul-Haque Syed, Vincent Haufroid, Benoit Nemery.
- O-0216 CHILDHOOD LEUKEMIA AND MATERNAL OCCUPATIONAL EXPOSURES TO ORGANIC SOLVENTS IN COSTA RICA
Patricia Monge, Freddy Briceño, Timo Partanen.

- OS.37**
09:30 – 11:00 **AIR POLLUTION AND REPRODUCTIVE EFFECTS**
Room 3
Chairs: Ferran Ballester & Jennifer Parker
- O-0217 AIR POLLUTION EXPOSURE DURING PREGNANCY AND MATERNAL AND FETAL C-REACTIVE PROTEIN LEVELS. THE GENERATION R STUDY
Edith Van Den Hooven, Yvonne De Kluienaar, Frank Pierik, Albert Hofman, Sjoerd Van Ratingen, Peter Zandveld, Eric Steegers, Henk Miedema, Vincent Jaddoe.
- O-0218 ASSOCIATION BETWEEN CONGENITAL HEART DEFECTS AND MATERNAL EXPOSURE TO AMBIENT AIR POLLUTION AND TEMPERATURE IN AN ISRAELI BIRTH COHORT, 2000-2006
Keren Agay-Shay, Michael Friger, Shai Linn, Ammatzia Peled, Yona Amitai, Chava Peretz.
- O-0219 DOES COMMUNITY VULNERABILITY AMPLIFY THE RELATIONSHIP BETWEEN TRAFFIC EXPOSURE AND ADVERSE BIRTH OUTCOMES? A UNIVERSITY-REGULATORY RESEARCH COLLABORATIVE ON ENVIRONMENTAL HEALTH INEQUALITIES
Rachel Morello-Frosch, Paul English, Manuel Pastor, James Sadd, Debbie Lowe Liang, Eric Hall, Matthew Latkin.
- O-0220 THE POPULATION-LEVEL ESTIMATE OF THE EFFECT OF PRENATAL EXPOSURE TO TRAFFIC ON PRETERM BIRTH
Amy Padula, Kathleen Mortimer, Ira Tager.
- O-0221 AMBIENT AIR POLLUTION MODELS: IMPACT ON ESTIMATED EXPOSURE AND RELATIONSHIP WITH FETAL GROWTH, THE EDEN MOTHER CHILD COHORT
Yann Sellier, Julien Galineau, Agnes Hulin, Fabrice Caini, Nathalie Marquis, Sebastien Bottagisi, Lise Giorgis Allemand, Marie-Aline Charles, Remy Slama, Johanna Lepeule.
- O-0222 AIR POLLUTION AND ADVERSE BIRTH OUTCOMES: AN INTERNATIONAL ANALYSIS OF WORLD HEALTH ORGANIZATION GLOBAL SURVEY ON MATERNAL AND PERINATAL HEALTH
Nancy Fleischer, Marie S. O'Neill, Felipe Vadillo-Ortega, Aaron van Donkelaar, Randall V. Martin, Ana Pilar Betran-Lazaga, Joao Paulo Dias de Souza, Ahmet Metin Gulmezoglu, Mario Merialdi.

- S.16**
09:30 – 11:00 **SYMPOSIUM ▶ SCIENTIFIC INFERENCE AND PUBLIC POLICY**
Room 8
Chair: Richard Clapp

- S-0083 INTRODUCTION AND DESCRIPTION OF REACH AND U.S. PRESIDENT'S CANCER PANEL
R Clapp.
- S-0084 DOLL AND PETO REVISITED: CURRENT KNOWLEDGE ABOUT OCCUPATIONAL AND ENVIRONMENTAL CAUSES OF CANCER
Manolis Kogevinas.
- S-0085 THE PRESIDENT'S CANCER PANEL REPORT AND FUTURE RESEARCH NEEDS
Francine Laden, Mark Winkler, Catherine Winkler.
- S-0086 THE ROLE OF NON-GOVERNMENTAL ORGANIZATIONS IN PROMOTING OCCUPATIONAL AND ENVIRONMENTAL CARCINOGEN REGULATION
Lisette Van Vliet.
- S-0087 ROLE OF THE ISEE IN EVALUATING SCIENTIFIC EVIDENCE AND MAKING POLICY RECOMMENDATIONS
Dean Baker.
Discussion

OS.38 FOOD, ENVIRONMENT AND HEALTH

09:30 – 11:00

Room 4

Chairs: **Michelle Mendez & Antonio Agudo**

- O-0223 FOOD FOR THOUGHT: ETHICAL ISSUES IN FOOD AND NUTRIENT RESEARCH
Adetoun Mustapha.
- O-0224 DIETARY BENZO(A)PYRENE AND FETAL GROWTH: EFFECT MODIFICATION BY VITAMIN C INTAKE AND MATERNAL GSTP1 POLYMORPHISM
Talita Duarte Salles, Michelle Mendez, Eva Morales, Mariona Bustamante, Manolis Kogevinas, Jordi Sunyer.
- O-0225 SEAFOOD CONSUMPTION DURING PREGNANCY AND CHILD NEURODEVELOPMENT IN A POPULATION-BASED LONGITUDINAL STUDY: THE INMA COHORTS
Michelle Mendez, Raquel Garcia-Esteban, Mónica Guxens, Ferran Ballester, Mario Murcia, Jesús Ibarluzea, Nerea Lertxundi, Anna Fernandez-Somoano, Adonina Tardon, Jordi Sunyer.
- O-0226 THE ASSOCIATION OF MATERNAL DIET DURING PREGNANCY AND ANOGENITAL DISTANCE IN CHILDREN OF THE RHEA BIRTH COHORT IN CRETE, GREECE
Eleni Papadopoulou, Marina Vafeiadi, Kleopatra Mathianaki, Katerina Sarri, Antonis Koutis, Manolis Kogevinas, Leda Chatzi.
- O-0227 EVALUATION OF THE FREQUENCY OF CONSUMPTION OF FOODS CONTAINING GENOTOXIC COMPOUNDS IN A COHORT OF MEXICAN PREGNANT WOMEN
Marisol Castillo-Castrejon, Alejandra Migoya-Graue, Adriana Castañón-Figueroa, Noemi Meraz-Cruz, Marie S O'Neill, Felipe Vadillo-Ortega.
- O-0228 KOREAN RESEARCH PROJECT ON THE INTEGRATED EXPOSURE ASSESSMENT TO HAZARDOUS MATERIALS FOR FOOD SAFETY (2010)
Ho Jang Kwon, Ji-ae Lim, Ho Kim, Mi Na Ha, Se Young Oh, Jung Duck Park, Hee Soo Pyo, Ki Kyung Jung.

S.17 SYMPOSIUM ▶ Climate change and health in the mediterranean

09:30 – 11:00

Room 11

Chairs: **Bettine Menne & Antonio Navarra**

- S-0089 SHORT TERM EFFECT OF HIGH TEMPERATURES ON MORTALITY IN MEDITERRANEAN CITIES: RESULTS FROM THE EU-FUNDED CIRCE PROJECT (CLIMATE CHANGE AND IMPACT RESEARCH: THE MEDITERRANEAN ENVIRONMENT)
Michela Leone, Daniela D'Ippoliti, Claudia Marino, Francesca de'Donato, Antonis Analitis, Klea Katsouyanni, Tanja Wolf, Bettina Menne, Paola Michelozzi.
- S-0090 IS THERE SYNERGY IN THE TEMPERATURE AND AIR POLLUTION EFFECTS ON HEALTH? RESULTS FROM THE CIRCE PROJECT IN 10 MEDITERRANEAN CITIES
Antonis Analitis, Klea Katsouyanni, Paola Michelozzi, Daniela D'Ippoliti, Francesca d'Donato, Michela Leone, Tanja Wolf, Bettina Menne.
- S-0091 FUTURE RE-EMERGENCE OF INFECTIOUS DISEASE DISTRIBUTION IN THE MEDITERRANEAN AREA: HOW LIKELY THEY ARE?
Xavier Rodó, Menno Bouma.
- S-0092 CLIMATE CHANGE, WATER AND HEALTH
Georgios Kamizoulis.
- S-0094 ECONOMIC ASSESSMENT OF THE HEALTH IMPACTS OF CLIMATE CHANGE IN EUROPE
Guy Hutton.
- S-0095 Introduction to panel discussion: RESEARCH NEEDS FOR CLIMATE CHANGE AND HEALTH
Kristie Ebi.

S.18 SYMPOSIUM ▶ PRENATAL EXPOSURE TO POPs AND AGE OF PUBERTY

09:30 – 11:00

Room 12

Chairs: **Tony Fletcher & Brenda Eskenazi**

- S-0096 SERUM HORMONE PROFILE AND PUBERTY DEVELOPMENT IN BOYS WITH PRENATAL PCB EXPOSURE
Philippe Grandjean, Tina Kold Jensen, Ciea Gronlund, Ina Kjaer, Anders Juul, Anna Maria Andersson, Niels Erik Skakkebaek, Flemming Nielsen, Pal Weihe.
- S-0097 IN UTERO EXPOSURE TO PERSISTANT ORGANIC POLLUTANTS (POPS) IN GIRLS: RELATIONSHIPS TO GROWTH, PUBERTAL DEVELOPMENT AND REPRODUCTIVE SUCCESS: NEW DATA
Michele Marcus, Mildred Maisonet, Krista Christensen, Chanley Small, Metrecia Terrell, Carol Rubin, Antonia Calafat.
- S-0098 AGE OF PUBERTY IN RELATION TO PREPUBERTAL MEASURES OF PFOA NEW FINDINGS
Susan M. Pinney, Gayle C. Windham, Frank M. Biro, Lawrence H. Kushi, Robert L. Herrick, Lusine Yaghjian, Antonia Calafat, Kayoko Kato, Paul Succop, Robert Bornschein.

- S-0099 PATTERNS OF AGE OF PUBERTY IN RELATION TO PFOA AND PFOS AMONG CHILDREN IN THE MID-OHIO VALLEY
Maria-Jose Lopez-Espinosa, Tony Fletcher, Ben Armstrong, Bernd Genser, Debapriya Mondal, Giovanni Leonard.
- S-0100 INFLUENCE OF PERFLUORINATED COMPOUNDS (PFCS) EXPOSURE ON DEVELOPMENT AND HORMONES OF CHILDREN FROM THE DUISBURG BIRTH COHORT STUDY
Michael Wilhelm, Monika Kasper-Sonnenberg, Hermann Fromme, Wolfgang Völkel, Jürgen Wittsiepe, Claudia Cramer, Ulrich Ranft.
- Panel discussion introduced by discussant: Remy Slama.

11:00 – 11:30 COFFEE BREAK

OS.39 EXPOSURE ASSESSMENT AIR POLLUTION III

11:30 – 13:00

Auditorium

Chairs: Pat Kinney & Mike Brauer

- O-0229 EUROPEAN NO₂ LAND USE REGRESSION INCORPORATING SATELLITE- AND GROUND-BASED MEASUREMENTS
Danielle Vienneau, Kees de Hoogh, Gerard Hoek, Matthew J. Bechle, Eric V. Novotny, Dylan B. Millet, Julian D. Marshall.
- O-0230 INDIVIDUALIZED VS ECOLOGICAL AIR POLLUTION TIME SERIES: A COMPARATIVE STUDY OF MODELLING SPATIOTEMPORAL VARIABILITY
Konstantina Dimakopoulou, Xanthi Pedeli, Alexandros Gryparis, Klea Katsouyanni.
- O-0231 EXPOSURE ASSESSMENT OF CONSTITUENTS OF AIR POLLUTION: A POOLED ANALYSIS OF NINE VALIDATION STUDIES
Marianthi-Anna Kioumourtzoglou, Donna Spiegelman, Billing Hong, Francine Laden, Ronald Williams, Helen Suh.
- O-0232 SPATIO-TEMPORAL MODELING OF AIR POLLUTION INCORPORATING TIME-VARYING METEOROLOGY
Duncan Thomas, Meredith Franklin, Hita Vora, James Gauderman.
- O-0233 ASSESSMENT OF PERSONAL EXPOSURE TO MANGANESE IN CHILDREN LIVING NEAR A FERROMANGANESE REFINERY
Erin Haynes, Tiina Reponen, Patrick Ryan, Aimin Chen.
- O-0234 CATALUNYA ESCAPE LUR MODEL PERFORMANCE IN COMPARISON TO LOCALLY DEVELOPED MODELS
Audrey De Nazelle, Inma Aguilera, Mark Nieuwenhuijsen, Marta Cirach, Nino Künzli, Jordi Sunyer, Kees de Hoogh, Rob Beelen, Gerard Hoek, Xavier Basagaña.

OS.40 PESTICIDES AND HEALTH II

11:30 – 13:00

Room 6

Chairs: Marc Weisskopf & Mary Ward

- O-0235 HAIR AND URINE SPECIMENS FOR BIOMONITORING SHORT AND LONG TERM TERBUTYLAZINE EXPOSURE IN AGRICULTURE WORKERS AND RURAL RESIDENTS
Silvia Fustinoni, Rosa Mercadante, Elisa Polledri, Laura Campo, Pieralberto Bertazzi.
- O-0236 PESTICIDE HANDLING AND ASSOCIATED HEALTH RISK AMONG AGROCHEMICAL RETAILERS IN OSUN STATE, NIGERIA
Mosudi Sosan, Olufunmilayo Oni.
- O-0237 CLINICAL AND EPIDEMIOLOGICAL SURVEILLANCE OF A POPULATION CONTAMINATED BY BETA-HEXACHLOROXYCLOEXANE FROM AN ILLEGAL CHEMICAL DUMPING SITE
Fiorella Fantini, Silvia Narduzzi, Daniela Porta, Francesco Blasetti, Marina Davoli, Francesco Forastiere.
- O-0238 PROFESSIONAL PESTICIDE EXPOSURE AND DEPRESSION
Marc Weisskopf, Frederic Moisan, Christophe Tzourio, Alexis Elbaz.
- O-0239 INDIGENOUS CHILDREN'S CHLORPYRIFOS EXPOSURE IN BANANA AND PLANTAIN COMMUNITIES IN TALAMANCA, COSTA RICA
Berna Van Wendel De Joode, Douglas Barraza, Clemens Ruepert, Ana María Mora, Leonel Córdoba, Catharina Wesseling, Donna Mergler, Christian H. Lindh.
- O-0240 BRAIN CANCER AMONG AGRICULTURAL WORKERS FROM RIO DE JANEIRO, BRAZIL: A DEATH CERTIFICATE-BASED CASE-CONTROL STUDY
Adalberto Miranda F^a, Gina Monteiro, Armando Meyer.

OS.41 TRANSPORT AND HEALTH II

11:30 – 13:00

Room 5

Chairs: Scott Fruin & Nicole Jansen

- O-0241 IN-VEHICLE POLLUTANT EXPOSURES AND ACUTE CARDIORESPIRATORY RESPONSE IN A COHORT OF HEALTHY AND ASTHMATIC CAR COMMUTERS IN THE ATLANTA COMMUTERS' EXPOSURE STUDY
Jeremy A. Sarnat, Roby Greenwald, Stefanie E. Sarnat, Priya Kewada, Fuyuen Yip, Tegan K. Boehmer, Michael H. Bergin.
- O-0242 RISKS ASSOCIATED WITH ACTIVE TRAVEL IN PARK-ADJACENT NEIGHBORHOODS IN LOS ANGELES, USA
Jason Su, Michael Jerrett, Audrey de Nazelle, Jennifer Wolch.
- O-0243 TRAFFIC POLLUTION AND BIOMARKERS OF PULMONARY OXIDATIVE STRESS IN HEALTHY HUMANS
Robert Laumbach, David Rich, Jicheng Gong, Ashley Petit, Junfeng Zhang, Ohman Strickland, Kelly McNeil, Kathie Kelly-McNeil, Andrew Gow, Howard Kipen.
- O-0244 EPIGENETIC IMPACT OF COMMUTING TO WORK BY CAR OR USING PUBLIC TRANSPORTATION: A CASE-CONTROL STUDY
Alfredo Morabia, Fang Fang Zhang, Maya Kappil, Janine Flory, Frank Mirer, Regina Santella, Mary Wolff, Steven Markowitz.

- O-0245 ACTIVE TRAVEL, GENERAL PHYSICAL ACTIVITY, AND BODY MASS INDEX IN SWISS ADULTS: RESULTS FROM THE SWISS HEALTH SURVEYS 2002 AND 2007
Thomas Götschi, Miriam Wanner, Sonja Kahlmeier, Eva Martin-Diener.
- O-0246 BICYCLIST BLACK CARBON EXPOSURE AND THE IMPACT OF ROUTES CHOICE AND BIKING FACILITIES, A SPATIAL ANALYSIS
Luc Dekoninck, Dick Botteldooren, Luc Int Panis.

OS.42 ARSENIC AND HEALTH

11:30 – 13:00

Room 3

Chairs: Ken Cantor & Elen Silbergeld

- O-0247 ARSENIC EXPOSURE AND PREVALENT DIABETES IN THE STRONG HEART STUDY
Matthew O Gribble, Barbara V Howard, Jason G Umans, Nawar Shara, Kevin A Francesconi, Walter Goessler, Ciprian Crainiceanu, Eliseo Guallar, Ana Navas-Acien.
- O-0248 COMMUNITY PARTICIPATION TO LOWER ARSENIC EXPOSURE MORE EFFECTIVELY IN BANGLADESH
Christine Marie George, Joyce Moon-Howard, Alessandro Tarozzi, Diane Levy, Xinhua Liu, Pam Factor-Litvak, Tariqul Islam, Kazi Matin Ahmed, Lex van Geen, Joseph Graziano.
- O-0249 PULMONARY EFFECTS AMONG CHILDREN EXPOSED TO ARSENIC IN UTERO IN MATLAB, BANGLADESH
Allan Smith, Mohammad Yunus, Al Fazal Khan, Yan Yuan, Jane Liaw, Dewan S. Alam, Peter Kim Streatfield, David Kalman, Rubhana Raqib, Craig Steinmaus.
- O-0250 ARSENIC METHYLATION IS ASSOCIATED WITH BREAST CANCER RISK IN NORTHERN MEXICO
Lizbeth Lopez-Carrillo, Raúl Ulises Hernández-Ramírez, Luisa Torres-Sánchez, Jay A Gandolfi, José Manuel Ornelas-Aguirre, Mariano E. Cebrián.
- O-0251 ARSENIC EXPOSURE AND DNA METHYLATION WITHIN REPETITIVE ELEMENTS IN ELDERLY MEN
Angeliki Lambrou, Andrea Baccarelli, Robert O. Wright, Marc Weisskopf, Letizia Tarantini, Chitra Amarasiriwardena, Pantel Vokonas, Joel Schwartz.
- O-0252 IN UTERO EXPOSURE TO ARSENIC IS ASSOCIATED WITH ALTERED DNA METHYLATION IN UMBILICAL CORD BLOOD LEUKOCYTES
Molly Kile, Andrea Baccarelli, Elaine Hoffman, Letizia Tarantini, Quazi Quamruzzaman, Mahmuder Rahman, Golam Mahiuddin, Robert Wright, David Christiani.

OS.43 SECOND HAND SMOKE AND HEALTH

11:30 – 13:00

Room 8

Chairs: Jouni Jaakkola & Jonathan Samet

- O-0253 SECONDHAND TOBACCO SMOKE: A SOURCE OF LEAD EXPOSURE IN US CHILDREN AND ADOLESCENTS
Esther Garcia, Andria Apostolou, Jeffrey J Fadrowski, Patricia McClain, Virginia M Weaver, Ana Navas-Acien.
- O-0254 EXAMINING THE MORTALITY EFFECTS OF THE IRISH NATIONAL SMOKING BAN
Sericea Stallings-Smith, Ariana Zeka, Pat Goodman, Luke Clancy.
- O-0255 IMPACT OF SMOKE-FREE LEGISLATION ON CHILDREN S SECONDHAND SMOKE EXPOSURE
Gabriele Bolte, Lana Hendrowarsito, Hermann Fromme, GME Study Group
- O-0256 THE EFFECT OF PRENATAL AND POST NATAL EXPOSURE TO SECOND HAND SMOKE ON THE DEVELOPMENT OF WHEEZING BEFORE THE AGE OF 2: A EUROPEAN STUDY
Constantine Vardavas, Cynthia Hohmann, Evridiki Patelarou, David Martinez, Maria Vassilaki, Mark Nieuwenhuijsen, Thomas Keil, Manolis Kogevinas, on behalf of the participating ENRIECO COHORTS.
- O-0257 ENVIRONMENTAL TOBACCO SMOKE INCREASES THE RISK OF BREAST CANCER AMONG PRE- AND POST-MENOPAUSAL MEXICAN WOMEN
Olivia Chilian-Herrera, Kenneth P. Cantor, Raúl Ulises Hernández-Ramírez, Lizbeth López-Carrillo.
- O-0258 EFFECTS OF PRENATAL AND POSTNATAL TOBACCO SMOKE EXPOSURE ON THE DEVELOPMENT OF ASTHMA AND WHEEZING: A POPULATION-BASED SIX-YEAR COHORT STUDY
Jouni Jaakkola, Laura Jarman.

OS.44 SOCIO-ECONOMIC STATUS AND HEALTH

11:30 – 13:00

Room 4

Chairs: Severine Deguen & Nelson Gouveia

- O-0259 LOCAL NEIGHBORHOOD DEPRIVATION: NEW METHODS TO DEFINE NEIGHBORHOODS AND MEASURE DETERMINANTS OF POVERTY IN THE FRESNO ASTHMATIC CHILDREN'S ENVIRONMENT STUDY (FACES)
Sara Gale, Amy Padula, Ira Tager.
- O-0260 USING STATISTICAL, TECHNOLOGICAL, AND PARTICIPATORY METHODS TO IDENTIFY ENVIRONMENTAL AND HEALTH DISPARITIES IN CALIFORNIA
Galatea King, Michelle Wong, Natalie Collins, Eric Roberts, Craig Wolff, Paul English.
- O-0261 ASSESSMENT OF HEALTH EFFECTS OF TRANSPORT POLICIES IN ROME: IMPACT ON SOCIO-ECONOMIC INEQUALITIES
Giulia Cesaroni, Hanna Boogaard, Sander Jonkers, Daniela Porta, Chiara Badaloni, Giorgio Cattani, Francesco Forastiere, Gerard Hoek.
- O-0262 THE MODIFYING EFFECT OF SOCIOECONOMIC POSITION IN THE AIR POLLUTIONMORTALITY - ASSOCIATION: THE ESCALA PROJECT
Nelson Gouveia, Luis Cifuentes, Antonio Ponce de Leon, Victor Miranda, Jeanette Vera, Magali Hurtado-Diaz, Washington Junger, Isabelle Romieu.
- O-0263 PROXIMITY TO INDUSTRIAL PLANTS, NEIGHBOURHOOD SOCIO-ECONOMIC CHARACTERISTICS AND THE RISK OF INFANT MORTALITY - A BAYESIAN ANALYSIS IN LYON, FRANCE
Séverine Deguen, Benoit Lalloué, Wahida Kihal, Grégoire Rey, Denis Zmirou, Séverine Deguen.

O-0264 ASSOCIATIONS BETWEEN SMALL AREA LEVELS OF AIR POLLUTION AND SOCIO-ECONOMIC CHARACTERISTICS IN THE NETHERLANDS AND ENGLAND
Paul Fischer, Kees de Hoogh, Marten Marra, Hanneke Kruize, Gerard Hoek, Rob Beelen, Danielle Viennau, David Briggs.

S.19 SYMPOSIUM. HEAT OR HEAT WAVES? DOES IT MATTER WHICH EPIDEMIOLOGISTS STUDY?

11:30 – 13:00

Room 11

Chairs: Joel Schwartz & Ben Armstrong

- S-0101 INTRODUCTION
Ben Armstrong.
- S-0102 INVESTIGATING HEATWAVE EFFECTS THROUGH MULTI-LEVEL MODELING: THE ROLES OF HEATWAVE VARIABILITY AND HEATWAVE CHARACTERISTICS
Brooke Anderson, Michelle Bell.
- S-0103 ACCOUNTING FOR MODEL UNCERTAINTY IN ESTIMATING THE RELATIVE RISK OF MORTALITY ASSOCIATED WITH HEAT WAVES
Jennifer Bobb, Francesca Dominici, Roger Peng.
- S-0104 IS THERE AN ADDITIONAL HEALTH EFFECT DUE TO SUSTAINED HEAT DURING HEAT WAVES?
Antonio Gasparrini, Ben Armstrong.
- S-0105 THE IMPACT OF HEAT AND HEAT-WAVE EPISODES IN EUROPEAN CITIES
Daniela D'Ippoliti, Paola Michelozzi, Claudia Marino, Michela Leone.
- S-0106 HEAT VERSUS HEAT WAVE RELATED MORTALITY ARE THE SUSCEPTIBLE GROUPS COHERENT?
Joacim Rocklöv, Kristie Ebi, Bertil Forsberg.
Concluding remarks: Joel Schwartz, Harvard, Boston, USA.

S.20 SYMPOSIUM. PREVENTION OF ASTHMA AND ALLERGIES IN EARLY LIFE: THE FARM EFFECT

11:30 – 13:00

Room 12

Chairs: Juha Pekkanen & Charlotte Braun-Fahrländer

- S-0107 REVIEW ON FARM ENVIRONMENT GENES AND DEVELOPMENT OF ASTHMA AND ALLERGIES
Charlotte Braun-Fahrländer, Juha Pekkanen, Gert Doekes, Erika von Mutius, Joseph Riedler, Jean-Charles Dalphin, Dick Heederik, Roger Lauener, Jon Genuneit, Wolfgang Kneifel.
- S-0108 IMPORTANCE OF CAREFUL DISEASE PHENOTYPING IN STUDIES ON DEVELOPMENT OF ASTHMA AND ALLERGIES
Jon Genuneit, Oliver Fuchs, Elisabeth Horak, Urs Frey, Charlotte Braun-Fahrländer, Erika von Mutius, and the GABRIELA Study Group.
- S-0109 INTERACTIONS BETWEEN ENVIRONMENT AND THE IMMUNE SYSTEM IN DEVELOPMENT OF ALLERGIES
Caroline Roduit, Remo Frei, Gisela Büchele, Juha Pekkanen, Joseph Riedler, Jean-Charles Dalphin, Erika von Mutius, Charlotte Braun-Fahrländer, Roger Lauener.
- S-0110 ASSOCIATIONS OF ENVIRONMENTAL MICROBIAL EXPOSURE WITH DEVELOPMENT OF ASTHMA AND ALLERGIES
Juha Pekkanen, Anne M. Karvonen, Maria Valkonen, Gert Doekes, Josef Riedler, Charlotte Braun-Fahrländer, Jon Genuneit, Jean-Charles Dalphin, Erika von Mutius, Anne Hyvärinen.
- S-0111 EFFECT OF FARM MILK ON DEVELOPMENT OF ASTHMA AND ALLERGIES
Georg Loss, Silvia Apprich, Marco Waser, Wolfgang Kneifel, Erika von Mutius, Jon Genuneit, Gisela Büchele, Barbara Sozanska, Charlotte Braun-Fahrländer.
Discussion

13:00 – 14:00 LUNCH

14:00 – 16:00 POSTER VIEWING

15:00 – 16:00 POSTER DISCUSSION

PD.13 SUSCEPTIBILITY TO AIR POLLUTION

15:00 – 16:00

Room 5

Chairs: George Thurtson & Beate Ritz

- P-0001 TRAFFIC-RELATED AIR POLLUTION AND ACUTE CHANGES IN HEART RATE VARIABILITY AND RESPIRATORY FUNCTION IN URBAN CYCLISTS
Scott Weichenthal, Ryan Kulka, Aimee Dubeau, Christina Martin, Daniel Wang, Robert Dales.
- P-0012 AIR POLLUTION EFFECTS ON RISK OF ICD-DETECTED ATRIAL AND VENTRICULAR ARRHYTHMIAS: WHO ARE THE MOST VULNERABLE PATIENTS?
Heike Gibson, Francine Laden, Douglas W. Dockery, Joel Schwartz, Brent Coull, Diane Gold, Mark S. Link.
- P-0030 EFFECTS OF PRENATAL AIR POLLUTION EXPOSURE ON CHILDHOOD BLOOD PRESSURE AND CAROTID INTIMA-MEDIA THICKNESS
Carrie Breton, Talat Islam, Wendy Mack, Xinhui Wang, Lora Whitfield-Maxwell, Howard Hodis, Nino Kunzli, Ed Avol.
- P-0050 SHORT-TERM IMPACT OF AMBIENT AIR POLLUTION ON BLOOD PRESSURE AMONG PREGNANT WOMEN: A LONGITUDINAL STUDY
Regina Hampel, Johanna Lepeule, Alexandra Schneider, Sébastien Bottagisi, Marie-Aline Charles, Pierre Ducimetière, Annette Peters, Rémy Slama.
- P-0055 EXPOSURE TO PM_{2.5} AND CAUSE-SPECIFIC MORTALITY RISK IN ADDITIONAL FOLLOW-UP OF THE HARVARD SIX CITIES STUDY: IDENTIFICATION OF SUSCEPTIBLE SUB-POPULATIONS
Francine Laden, Jaime E. Hart, Robin C. Puett, Joel Schwartz, Frank E Speizer, Douglas W Dockery.

P-0057 DO STATINS MITIGATE THE EFFECTS OF PM10? A CASE-ONLY ANALYSIS ON HOSPITAL ADMISSIONS FROM REGIONAL GOVERNMENT ADMINISTRATIVE DATABASES
Sara Conti, Giovanni De Vito, Alessandra Lafranconi, Joel Schwartz, Antonella Zanobetti, Carla Fornari, Fabiana Madotto, Giancarlo Cesana.

PD.14 IMPROVEMENT OF LAND USE REGRESSION MODELS OF OUTDOOR AIR POLLUTION

15.00 – 16.00

Room 3

Chairs: Gerard Hoek & Mike Brauer

P-0482 APPLICATION OF SPATIO-TEMPORAL REGRESSION MODEL ACCOUNTING FOR ASIAN DUST (DESERT DUST) TO REGULATORY AIR QUALITY DATA IN JAPAN

Saori Kashima, Takashi Yorifuji, Toshihide Tsuda, Akira Eboshida.

P-0487 ESCAPE LUR DEVELOPMENT AT TWO DIFFERENT SCALES: CATALUNYA AND BARCELONA AREAS

Audrey De Nazelle, Marta Cirach Pradas, Rob Beelen, Gerard Hoek, Kees De Hoogh, Mark Nieuwenhuijsen.

P-0494 ASSESSMENT OF SPATIOTEMPORAL EXPOSURE ESTIMATES IN SMALL AREA EXPOSURE STUDIES

Daniela Fecht, Federico Fabbri, Linda Beale.

P-0504 RETROSPECTIVE SPATIOTEMPORAL AIR POLLUTION EXPOSURE ASSESSMENT FOR A NATIONAL CANADIAN LUNG CANCER CASE-CONTROL STUDY

Perry Hystad, Paul Demers, Michael Brauer.

P-0507 MODELING EXPOSURES TO THE OXIDATIVE POTENTIAL OF AMBIENT PARTICULATE MATTER IN LONDON

Jeff Yanosky, Cathryn Tonne, Sean Beevers, Paul Wilkinson, Frank Kelly.

P-0518 ASSESSMENT OF THE TEMPORAL STABILITY OF LAND USE REGRESSION MODELS FOR TRAFFIC-RELATED AIR POLLUTION

Michael Brauer, Rongrong Wang, Sarah Henderson, Ryan Allen.

P-0521 EXPOSURE TO CARCINOGENIC AIR POLLUTANTS IN STOCKHOLM, SWEDEN: A COMPARISON OVER TIME

Mine Yazar, Tom Bellander, Anne-Sophie Merritt.

P-0523 COMPARISON OF LAND-USE REGRESSION MODELS OVER A THREE YEAR PERIOD IN OSLO, NORWAY

Christian Madsen, Ulrike Gehring, Siri E. Håberg, Per Nafstad, Kees Meliefste, Wenche Nystad, Kai, Håkon Carlsen, Bert Brunekreef.

P-0545 INTRODUCING URBAN STREET CONFIGURATION FOR IMPROVEMENTS IN AIR POLLUTION LAND USE REGRESSION MODELS, USING 3D BUILDING DATA

Marloes Eeftens, Johan Beekhuizen, Rob Beelen, Roel Vermeulen, Anke Huss, Gerard Hoek.

PD.15 METHYLATION AND HEALTH

15.00 – 16.00

Room 8

Chairs: Andrea Baccarelli & Paulo Vineis

P-0100 ASSOCIATION BETWEEN PARTICULATE AIR POLLUTION AND METHYLATION OF TRANSCRIPT VARIANTS OF MRNA IN AN ELDERLY COHORT: VETERANS ADMINISTRATION NORMATIVE AGING STUDY

Marie-Abele Bind, Andrea Baccarelli, Letizia Tarantini, Helen Suh, Pantel Vokonas, Joel Schwartz.

P-0180 CHARACTERIZATION OF GLOBAL DNA METHYLATION AT LINE-1 IN A COHORT OF URBAN ASTHMATIC CHILDREN WITH A GRADIENT OF EXPOSURE TO HIGHWAYS

Toby Lewis, Laura Rozek, Adrienne Van Zomeren-Dohm, Bhramar Mukherjee, Xiaodan Ren, Graciela Mentz, Thomas Robins, Elizabeth Hughes, Community Action Against Asthma Steering Committee.

P-0205 EXPOSURE TO METALS AND GENE-SPECIFIC METHYLATION IN COMMUNITY-DWELLING ELDERLY MEN

Angeliki Lambrou, Andrea Baccarelli, Robert O. Wright, Laura Cantone, Chitra Amarasiriwardena, Pantel Vokonas, Joel Schwartz.

P-0209 ARSENIC METHYLATION AND SQUAMOUS CELL CARCINOMA IN A US POPULATION BASED CASE-CONTROL STUDY

Diane Gilbert-Diamond, Jay Gandolfi, Ann Perry, Steven Spencer, Jason Moore, Margaret Karagas.

P-0213 GENOMIC METHYLATION OF PERIPHERAL BLOOD LEUKOCYTES AMONG ARSENIC EXPOSED MATERNAL-NEWBORN PAIRS

Rick Pilsner, Megan Hall, Xinhua Liu, Vesna Illevski, Vesna Slavkovich, Pam Factor-Litvak, Mahfuzar Rahman, Joseph Graziano, Mary Gamble.

P-0225 DEMOGRAPHIC AND LIFESTYLE FACTORS AFFECTING GENOMIC BLOOD DNA METHYLATION BIOMARKER LEVELS

Lisette Delgado-Cruzata, Hui-Chen Wu, Yuyan Liao, Regina Santella, Lambert Lumey, Mary Beth Terry.

P-0286 DELIVERY TYPE NOT ASSOCIATED WITH DIFFERENTIAL METHYLATION AT BIRTH

Shama Virani, S. Halubai, M.S. Nahar, D.C. Dolinoy, S.E. Domino, L.S. Rozek, V. Padmanabhan.

P-0588 A STATISTICAL FRAMEWORK FOR ENVIRONMENTAL EPIGENETICS

Duncan Thomas, Carrie Breton, Muhammad T Salam, Talat Islam, Frank Gilliland.

PD.16 WE USE EXPOSURE BIOMARKERS FOR VARIOUS GOALS: ANALYSIS OF TIME TRENDS/SPATIAL TRENDS. WHAT ARE THE PITFALLS? HOW TO OVERCOME THEM?

15.00 – 16.00

Room 4

Chairs: Greet Schoeters & Lisbeth Knudsen

P-0454 DECREASING INFANT EXPOSURE TO PCDD/FS AND PCBS THROUGH BREAST MILK IN FINLAND

Riikka Airaksinen, Panu Rantakokko, Päivi Ruokojärvi, Jouni T Tuomisto, Hannu Kiviranta.

P-0455 COPHES GUIDELINES TO MEASURE EXPOSURE OF CHILDREN AND THEIR MOTHERS: SELECTION OF PARTICIPANTS, RECRUITMENT AND FIELD WORK IN DEMOCOPHES

Kerstin Becker, Ludwine Casteleyn, Reinhard Joas, Anke Joas, Pierre Biot, Dominique Aerts, Argelia Castano, Juergen Angerer, Greet Schoeters, Elli Den Hond, Ovnair Sepai, Karen Exley, Lisbeth E. Knudsen, Milena Horvat, Louis Bloemen.



- P-0469 DISSIMILAR ACCUMULATION OF ORGANOCHLORINE COMPOUNDS, PBDES AND HBCD IN COLOSTRUM FROM MOTHERS LIVING IN URBAN/INDUSTRIAL AREAS ACCORDING TO GEOGRAPHIC ORIGIN
Marta Fort, Joan O. Grimalt, Jordi Sunyer, Monica Guxens, Jesus Ibarluzea, Loreto Santa Marina.
- P-0552 INVESTIGATING INTERGENERATIONAL DIFFERENCES IN HUMAN PCB EXPOSURE DUE TO VARIABLE EMISSIONS AND REPRODUCTIVE BEHAVIOURS
Cristina L. Quinn, Frank Wania, Gertje Czub, Knut Breivik.

PD.17 EMERGING NEUROTOXINS

15.00 – 16.00

Room 11
Chairs: Martine Vrijheid & Remy Slama

- P-0231 PRENATAL MATERNAL AND NEONATAL URINARY BISPHENOL A AND NEURODEVELOPMENT IN THE FIRST TWO YEARS FROM THE MOCEH STUDY
Mina Ha, Kyung-Hwa Choi, Eun-Hee Ha, Hyesook Park, Yangho Kim, Yun-Chul Hong, Bung-Nyun Kim.
- P-0944 VARIABILITY IN ASSOCIATIONS BETWEEN MATERNAL PRENATAL URINARY PHTHALATE METABOLITE CONCENTRATIONS AND CHILD MENTAL, MOTOR AND BEHAVIORAL DEVELOPMENT VARY BY CHILD SEX
Robin Whyatt, Xinhua Liu, Virginia Rauh, Antonia Calafat, Allan Just, Lori Hoepner, Frederica Perera, Pam Factor-Litvak.
- P-0948 RELATIONSHIPS BETWEEN URINARY PHTHALATE METABOLITES AND POTENTIAL BIOMARKERS OF INFLAMMATION AND OXIDATIVE STRESS FROM NHANES 1999-2006
Kelly Ferguson, John Meeker.
- P-0954 PRENATAL PHTHALATE EXPOSURE AND NEURODEVELOPMENT AT 3 YEARS OF AGE (PILOT STUDY)
Martha Téllez-Rojo, Alejandra Cantoral, David E. Cantonwine, Lourdes Schnaas, Adriana Mercado, Howard Hu, John Meeker.

PD.18 ENVIRONMENTAL DETERMINANTS OF RESPIRATORY DISEASE IN CHILDREN

15.00 – 16.00

Room 12
Chairs: Juha Pekkanen & Jan-Paul Zock

- P-0158 PRENATAL EXPOSURE TO OUTDOOR AIR POLLUTION IN RELATION TO RESPIRATORY HEALTH, ECZEMA AND OTITIS EARLY IN LIFE
Inmaculada Aguilera, Marie Pedersen, Raquel Garcia-Esteban, Ferran Ballester, Mikel Basterrechea, Ana Esplugues, Ana Fernández-Somoano, Aitana Lertxundi, Adonina Tardón, Jordi Sunyer.
- P-0160 INDUSTRIAL EXPOSURES AT BIRTH ARE ASSOCIATED WITH REDUCED FORCED VITAL CAPACITY IN CHILDHOOD
Lucas Neas, Shaibal Mukerjee, Ann Williams, Luther Smith.
- P-0161 LUNG INFLAMMATION AMONG CHILDREN WITH ASTHMA EXPOSED TO INDUSTRIAL AND TRAFFIC POLLUTION
Nina Dobbin, Amanda Wheeler, Audrey Smargiassi, Susan Bartlett, Ling Liu, Robin Shutt, Lisa Marie Kauri, Gary Mallach, Marie-France Valois, Mark Goldberg.
- P-0172 EARLY LIFE EXPOSURE TO AIR POLLUTION AND RESPIRATORY SYMPTOMS IN CHILDREN: RESULTS FROM A BIRTH COHORT
Andrea Ranzi, Daniela Porta, Chiara Badaloni, Giulia Cesaroni, Paolo Lauriola, Carlo Alberto Perucci, Marina Davoli, Francesco Forastiere.
- P-0962 CONTRIBUTION OF INDIVIDUAL RISK FACTORS TO THE INTERNATIONAL VARIATION IN WHEEZE PREVALENCE IN CHILDREN: A META-ANALYTIC APPROACH
Gudrun Weinmayr, Andrea Kleiner, Francesco Forastiere, David Strachan.

16:00 – 16:30 COFFEE BREAK

OS.45 AIR POLLUTION AND OTHER HEALTH OUTCOMES II

16:30 – 18:00

Auditorium
Chairs: Doug Dockery & Ole Raashou Nielsen

- O-0265 DOES AIR POLLUTION TRIGGER INFANT MORTALITY IN WESTERN EUROPE? A CASE-CROSSOVER STUDY.
Hans Scheers, Samuel Mwalili, Christel Faes, Benoit Nemery, Tim Nawrot.
- O-0266 THE EFFECT OF EXPOSURE TO AIR POLLUTANTS ON INSULIN RESISTANCE MODIFIED BY GENOTYPES OF GSTM1 AND NAT2 IN THE KOREAN ELDERLY ENVIRONMENTAL PANEL STUDY (KEEPS)
Jin Hee Kim, Yun-Chul Hong.
- O-0267 AN APPLICATION OF A RISK SET CALIBRATION METHOD TO A STUDY OF AIR POLLUTION EFFECTS ON ALL CAUSE MORTALITY IN THE NURSES' HEALTH STUDY
Xiaomei Liao, Donna Spiegelman, Jaime Hart, Biling Hong, Robin Puett, Helen Suh, Francine Laden.
- O-0268 THE INTERACTION OF OZONE AND HIGH SUMMER TEMPERATURES ON DAILY MORTALITY AND THE URBAN HEAT ISLAND EFFECT
Massimo Stafoggia, Francesca de' Donato, Annunziata Faustini, Paola Michelozzi, Francesco Forastiere.
- O-0269 ASSOCIATION BETWEEN AIRBORNE POLLEN AND ASTHMA EMERGENCY ROOM ADMISSIONS DURING SAHARAN DUST INTRUSIONS
Aurelio Tobias, Jordina Belmonte, Antonio Valero, Cesar Picado, Marta Alarcon, Jorge Pey, Andres Alastuey, Xavier Querol.
- O-0270 LONG-TERM EXPOSURE TO TRAFFIC RELATED AIR POLLUTION AND HOSPITAL ADMISSION IN THE NETHERLANDS
Marieke Dijkema, Rob van Strien, Saskia van der Zee, Sanne Mallant, Paul Fischer, Gerard Hoek, Bert Brunekreef, Ulrike Gehring.

OS.46 CLIMATE CHANGE INFECTIOUS

16:30 – 18:00

Room 6
Chairs: Honda Yasushi & Jan Semenza

- O-0271 MAPPING CLIMATE CHANGE VULNERABILITIES FOR INFECTIOUS DISEASES IN EUROPE
Jan Semenza.



- O-0272 CLIMATE AND BACTERIAL INFECTIONS DURING PREGNANCY; PRESENT IMPLICATIONS AND FUTURE CONCERNS
Payam Dadvand, Xavier Basagaña, Francesc Figueras, Audrey de Nazelle, Elmira Amoly, Jordi Sunyer, Mark J Nieuwenhuijsen.
- O-0273 ASSOCIATION BETWEEN CLIMATIC VARIABLES AND DENGUE IN THE REGION OLMECA, MEXICO
Grea Litai Moreno-Banda, Magali Hurtado-Díaz, Stephen Rothenberg, Horacio Riojas-Rodriguez.
- O-0274 THE OPPOSING EFFECTS OF CLIMATE CHANGE AND SOCIO-ECONOMIC DEVELOPMENT ON THE GLOBAL DISTRIBUTION OF MALARIA
Andreas Béguin, Simon Hales, Joacim Rocklöv, Christofer Åström, Valérie Louis, Rainer Sauerborn.
- O-0275 ESTIMATING THE EFFECT OF RAINFALL AND INDICATOR BACTERIA IN AN EPIDEMIOLOGICAL STUDY
Andreas Tornevi, Bertil Forsberg.
- O-0276 SPATIOTEMPORAL CLUSTERING ANALYSIS OF DENGUE INCIDENCE IN BANGLADESH
Shahera Banu, Shilu Tong, Wenbiao Hu, Cameron Hurst, Yuming Guo, Mohammad Zahirul Islam.

OS.47 INDOOR AIR AND HEALTH II

16:30 – 18:00

Room 5

Chairs: Debbie Jarvis & Dimosthenis Sarigiannis

- O-0277 AN INTERVENTION STUDY USING FREE-STANDING HEPA AIR FILTERS AND AIR CONDITIONERS PLACED IN BEDROOMS OF INNER CITY CHILDREN WITH ASTHMA
Stuart Batterman, Liuliu Du, Edith Parker, Chris Godwin, Ashely O'Toole, Thomas Robins, Jie Zhou, Bhramar Mukherjee, Toby Lewis, CAAA Committee.
- O-0278 THE USE OF CLEANING PRODUCTS DURING PREGNANCY AND LOWER RESPIRATORY TRACT INFECTIONS AND WHEEZING IN THE FIRST YEAR OF LIFE
Lidia Casas, Jan Paul Zock, Anne-Elie Carsin, Ana Fernandez-Somoano, Ana Esplugues, Adonina Tardon, Ferran Ballester, Loreto Santa Marina, Mikel Basterrechea, Jordi Sunyer.
- O-0279 INCREASED PREVALENCE OF RESPIRATORY SYMPTOMS AMONG CHILDREN EXPOSED TO DAMPNESS AND MOULD AT SCHOOL
Alicia Borrás Santos, Jan-Paul Zock, José Jacobs, Esmeralda Krop, Anne Hyvärinen, Martin Täubel, Ulla Haverinen-Shaughnessy, Dick Heederik, Juha Pekkanen, Aino Nevalainen.
- O-0280 ASSESSING HEALTH IMPACTS OF CHANGES IN INDOOR PARTICLE CONCENTRATIONS FROM CHANGES IN ENERGY EFFICIENCY: METHODOLOGICAL CONSIDERATIONS
James Milner, Paul Wilkinson, Ben Armstrong, Zaid Chalabi, Sotiris Vardoulakis, Michael Davies.
- O-0281 EXPOSURE AND RISK ASSESSMENT OF VOLATILE ORGANIC COMPOUNDS AND CARBONYLS IN INDOOR ENVIRONMENTS IN EUROPE
Dimosthenis Sarigiannis, Spyros Karakitsios, Alberto Gotti.
- O-0282 RESIDENTIAL WOOD SMOKE PM_{2.5} AND A BIOMARKER OF OXIDATIVE STRESS IN ASTHMATIC CHILDREN
Marcy McNamara, Semmens Erin, Tony Ward, Curtis Noonan.

OS.48 IONISING AND UV RADIATION

16:30 – 18:00

Room 3

Chairs: Elisabeth Cardis & Dominique Laurier

- O-0283 EFFECTS OF RADON EXPOSURE AND SMOKING ON LUNG CANCER RISK: RESULTS OF A EUROPEAN COMBINED ANALYSIS AMONG URANIUM MINERS
Dominique Laurier, Maria Schnelzer, Ladislav Tomasek, Estelle Rage, Michaela Kreuzer, Klervi Leuraud.
- O-0284 CONTRIBUTION OF RADON PROGENY TO TOTAL LUNG DOSE AND ITS RELATION WITH LUNG CANCER MORTALITY AMONG FRENCH URANIUM MINERS
Estelle Rage, Blandine Vacquier, Eric Blanchardon, Rodrigue S. Allodji, James Marsh, Sylvaine Caër-Lorho, Alain Acker, Dominique Laurier.
- O-0285 RISK FROM OCCUPATIONAL AND ENVIRONMENTAL RADON AND ROLE OF SMOKING
Ladislav Tomasek.
- O-0286 ASSOCIATIONS OF RESIDENTIAL UVR EXPOSURE WITH CHILDHOOD BLOOD PRESSURE AND CAROTID INTIMA-MEDIA THICKNESS
Talat Islam, Carrie Breton, Wendy Mack, Howard Hodis, Lora Whitfield-Maxwell, Myles Cockburn, Nino Künzli, Ed Avol.
- O-0287 LEUKEMIA MORTALITY RISK FROM IONIZING RADIATION IN THE COHORT OF WISMUT URANIUM MINERS 1946-2003
Florian Dufey, Marion Sogl, Linda Walsh, Annemarie Tschense, Michaela Kreuzer.
- O-0288 BREAST CANCER INCIDENCE IS RELATED TO URANIUM PARTICULATE EXPOSURE IN A POPULATION LIVING NEAR A URANIUM REFINERY
Susan M. Pinney, Robert L. Herrick, Lusine Yaghjian, Jeanette M. Buckholz, James Nasuta, Paul Succop, Robert Wones.

OS.49 AIR POLLUTION AND NEUROCOGNITIVE FUNCTION

16:30 – 18:00

Room 8

Chairs: Jordi Sunyer & Federica Perera

- O-0289 THE RELATIONSHIP BETWEEN PAH/AROMATIC DNA ADDUCTS IN CORD BLOOD AND CHILD BEHAVIOR
Federica Perera.
- O-0290 EXPOSURE TO PARTICULATE AIR POLLUTION AND COGNITIVE DECLINE IN OLDER WOMEN
Jennifer Weuve, Robin Puett, Joel Schwartz, Jeffrey Yanosky, Francine Laden, Francine Grodstein.
- O-0291 TRAFFIC RELATED AIR POLLUTION AND REGIONAL AIR QUALITY ARE ASSOCIATED WITH AUTISM
Heather Volk, Frederick Lurmann, Bryan Penfold, Irva Hertz-Picciotto, Rob McConnell.
- O-0292 AIR POLLUTION AND RISK OF PARKINSON DISEASE IN A LARGE PROSPECTIVE STUDY OF WOMEN
Natalia Palacios, Francine Laden, Alberto Ascherio.



- O-0293 PRENATAL EXPOSURE TO RESIDENTIAL OUTDOOR AIR POLLUTION AND INFANT MENTAL DEVELOPMENT: MODULATION BY ANTIOXIDANTS AND DETOXIFICATION FACTORS
Monica Guxens, Inmaculada Aguilera, Ferran Ballester, Marisa Estarlich, Ana Fernández-Somoano, Aitana Lertxundi, Nerea Lertxundi, Adonina Tardon, Martine Vrijheid, Jordi Sunyer.
- O-0294 TRAFFIC POLLUTION AND COGNITIVE FUNCTION IN COMMUNITY-DWELLING SENIORS: THE MOBILIZE BOSTON STUDY
Gregory Wellenius, Luke Boyle, Brent Coull, William Milberg, Alexandros Gryparis, Joel Schwartz, Lewis Lipsitz.

OS.50 WASTE AND HEALTH

16:30 – 18:00

Room 4

Chairs: Pietro Comba & Steve Wing

- O-0295 MORTALITY ANALYSIS IN ITALIAN POLLUTED SITES (IPS) WITH INDUSTRIAL WASTE LANDFILLS AND DUMPING SITES
Lucia Fazzo, Fabrizio Minichilli, Roberta Pirastu, Mirella Bellino, Fabrizio Falleni, Pietro Comba, Fabrizio Bianchi.
- O-0300 HEALTH, WEALTH, DISASTERS AND ECOLOGIC FOOTPRINTS: TECHNOLOGIC FATIGUE?
Elihu Richter, Yael Stein.
- O-0297 LOSS-TO-FOLLOW UP AND SELECTION BIAS IN A LONGITUDINAL STUDY OF CLEAN-UP WORKERS OF THE PRESTIGE OIL SPILL
Jan-Paul Zock, Gema Rodríguez-Trigo, Emma Rodríguez-Rodríguez, Aina Espinosa, Ana Souto-Alonso, Francisco Pozo-Rodríguez, Federico Gómez, Carme Fuster, Josep Maria Antó, Joan Albert Barberá.
- O-0298 A RETROSPECTIVE COHORT STUDY OF RESIDENTS NEAR MULTIPLE POINT SOURCES OF AIR POLLUTION
Chiara Badaloni, Giulia Cesaroni, Francesca Mataloni, Carla Ancona, Simone Bucci, Andrea Bolignano, Roberto Sozzi, Francesco Forastiere.
- O-0299 PROLONGED RESPIRATORY EFFECT OF OIL SPILL EXPOSURE ON CHILDREN
Woo Chul Jeong, Kyung-Mook Kim, Suk-Chul Jung, Sang-Chul Roh, Jong-II Hur, Young-Koo Jee.
- O-0296 COMMUNITY EXPOSURES TO INDUSTRIAL POLLUTION AND WASTE: ETHICS DISCUSSION
Steve Wing, Wael Al-Delaimy.

S.21 S YMPIOSIUM ▶ FACING (AND OVERCOMING) EXPOSURE ASSESSMENT CHALLENGES IN STUDIES ON WATER POLLUTION AND CANCER

16:30 – 18:00

Room 11

Chairs: Margaret Karagas & John (Jay) Nuckols

- S-0112 DRINKING WATER CONTAMINATED WITH PERFLUORINATED CHEMICALS THE USE OF MODELLED AND MEASURED SERUM CONCENTRATIONS IN EPIDEMIOLOGICAL ANALYSES
Tony Fletcher, Nicola Fitz-Simon, Bernd Genser, Scott Bartell, Hyeong-Moo Shin, Veronica Shin, Ben Armstrong.
- S-0113 EXPOSURE ASSESSMENT APPROACHES FOR NITRATE INGESTION
Mary H. Ward, John R Nuckols, Sonya Heltshe, Briseis Aschebrook-Kilfoy, Curt Dellavalle, Peter Weyer, Bernard T. Nolan, Charles Lynch.
- S-0114 EXPOSURE ASSESSMENT APPROACHES FOR ARSENIC IN DRINKING WATER
John Nuckols.
- S-0115 BREAST CANCER RISK AND TETRACHLOROETHYLENE-CONTAMINATED DRINKING WATER IN CAPE COD, MASSACHUSETTS: A REANALYSIS OF CASE-CONTROL DATA USING GIS, RESIDENTIAL HISTORIES, AND A MODIFIED EXPOSURE ASSESSMENT
Veronica Vieira, Lisa Gallagher, David Ozonoff, Thomas Webster, Ann Aschengrau.
- S-0116 DISINFECTION BY-PRODUCTS AND COLORECTAL CANCER IN SPAIN
Cristina Villanueva, Nuria Aragones, Itziar Zaldua, Estefanía Toledo, Adonina Tardón, Antonio J Molina, Concepción López-Rojo, Esther Gracia-Lavedan, Marina Pollán, Manolis Kogevinas.

Summary and Discussion
Cristina M Villanueva, Margaret Karagas, John Nuckols

S.22 SYMPOSIUM ▶ AN INTERACTIVE DISCUSSION OF THE NEWLY REVISED DRAFT ISEE ETHICS GUIDELINES: KEY PRINCIPLES, CASE STUDIES, AND APPROACHES TO ETHICAL CHALLENGES

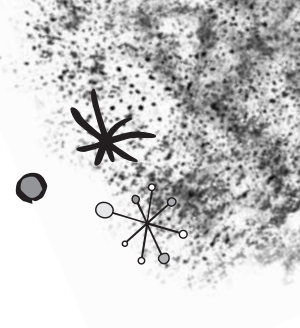
16:30 – 18:00

Room 12

Chairs: Shira Kramer & Wael Al-Delaimy

- S-0117 SHORT HISTORY AND RATIONALE FOR REVISED ETHICS GUIDELINES
Colin Soskolne.
- S-0118 HIGHLIGHTS OF KEY PRINCIPLES WITHIN SUBSECTIONS OF THE GUIDELINES, AND PERSPECTIVES ON THEIR RELEVANCE IN THE CURRENT RESEARCH CLIMATE, EMPHASIZING THE POLICY RELEVANCE OF OUR WORK
Shira Kramer.
- S-0119 INTERNATIONAL EXPERIENCE IN REGIONS WHERE THERE IS NO REQUIREMENT FOR AN IRB (RESEARCH ETHICS BOARD), AND HOW UNETHICAL RESEARCH MAY ENSUE
Adetoun Mustapha.
- S-0120 STUDY DESIGNS THAT MAY LEAD TO UNETHICAL RESEARCH OR THE INAPPROPRIATE INTERPRETATION OF FINDINGS; ADDRESSING WHISTLE BLOWING
Wael Al-Delaimy.
- S-0121 ETHICAL CONCERNS IN USING PUBLIC DATA SOURCES: ISSUES IN ACCESS AND LINKAGE
Dan Wartenberg, W. Douglas Thompson, Gerald Harris.
- S-0122 INTERACTIVE DISCUSSION OF ETHICS GUIDELINES AND PROPOSED APPROACHES, AND WRAP-UP
Shira Kramer, Wael Al-Delaimy.





Poster Session Viewing

Posters will be up during the full three days of the Conference.

Presenters should stay in front of their poster from 14.00 to 16.00 hours during the days given below:

Wednesday, 14th September, from 14.00 to 16.00 hours

Air pollution (outdoor) and cardiovascular disease ▶ from P-0001 to P-0033
Air pollution (outdoor) and neurobehavioural effects ▶ from P-0069 to P-0075
Air pollution (outdoor) and reproductive outcomes ▶ from P-0117 to P-0136
Cardiovascular diseases ▶ from P-0268 to P-0271
Child health ▶ from P-0272 to P-0293
Climate, change and health temperature ▶ from P-319 to P-0348 and P-0760, P-0761
EMF, Mobile phones and health ▶ from P-0380 to P-0390
Exposure assessment ▶ from P-0419 to P-0438
Exposure assessment of air pollutants ▶ from P-0478 to P-0497
Exposure assessment, methods ▶ from P-0552 to P-0566
Indoor air and health ▶ from P-0615 to P-0630
Metals and health ▶ from P-0694 to P-0714
Methods, general ▶ from P-0747 to P-0751
Occupational health ▶ P-0752 and from P-0779 to P-0800
Others ▶ from P-0824 to P-0856
POPs and health ▶ from P-0913 to P-0927
Respiratory diseases and allergies ▶ P-0957 to P-0973
Waste, accidents and health ▶ P-1038 to P-1053 and P-1095
Water, contaminants and health ▶ from P-1054 to P-1073

Thursday, 15th September, from 14.00 to 16.00 hours

Air pollution (outdoor) and other outcomes ▶ from P-0076 to P-0116
Air pollution (outdoor) and respiratory diseases ▶ from P-0138 to P-0166 and P-0193
BPA exposure and health ▶ from P-0227 to P-0236
Built environment and health ▶ from P-0237 to P-0252 and P-1094
Cancer ▶ P-0253 to P-0267 and P-0755, P-0759
Climate change and health ▶ from P-0294 to P-0304 and P-0757
Climate change and health-infectious ▶ from P-0305 to P-0318 and P-0754
Exposure assessment ▶ from P-0439 to P-0458
Exposure assessment of air pollutants ▶ from P-0498 to P-0518
Green spaces and health ▶ from P-0592 to P-0596
Health impact assessment ▶ from P-0597 to P-0614
Indoor air and health ▶ from P-0632 to P-0645
Metals and health ▶ from P-0715 to P-0746
Occupational health ▶ from P-0801 to P-0823
Pesticides and health ▶ P-0758 and from P-0857 to P-0876
Phthalates exposure and health ▶ from P-0943 to P-0956 and P-1098
Second hand, smoke and health ▶ from P-0974 to P-0992
Socio economic status environment and health ▶ from P-0993 to P-1008 and P-1092
Transport and health ▶ from P-1011 to P-1022
Water contaminants and health ▶ from P-1074 to P-1091

Friday, 16th September, from 14.00 to 16.00 hours

Air pollution (outdoor) and cardiovascular ▶ from P-0034 to P-0068
Air pollution (outdoor) and respiratory diseases ▶ from P-0167 to P-0196
Arsenic exposure and health ▶ from P-0197 to P-0216

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- P-0086 INFLUENCE OF TRAFFIC-RELATED AIR POLLUTION ON BIOMARKERS OF OXIDATIVE STRESS AND INFLAMMATION IN HEALTHY ADULTS: SEASONAL FOLLOW-UP
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- P-0087 NON-HODGKIN LYMPHOMA (NHL) LINKAGE WITH RESIDENCE NEAR HEAVY ROADS A CASE STUDY FROM HAIFA BAY, ISRAEL
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- P-0088 THE IMPACT OF TRAFFIC AIR POLLUTION ON CHRONIC LUNG REJECTION AND MORTALITY AFTER LUNG TRANSPLANTATION
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- P-0089 INDIVIDUAL ACTIVITY CHANGE IN RESPONSE TO POOR AIR QUALITY
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- P-0090 PM2.5 CHEMICAL CONSTITUENTS AND MORTALITY IN 49 U.S. COMMUNITIES FROM 2001 TO 2005
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- P-0091 THE CAUSAL ROLE OF AIRBORNE NANOPARTICLE ACTIVATED ONCOGENE EXPRESSION IN THE PROGRESSION OF LUNG ADENOCARCINOMA
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- P-0092 THE SENSITIVITY OF TIME-SERIES HEALTH EFFECT ESTIMATES TO FINE PARTICULATE MATTER (PM2.5) CHEMICAL COMPONENTS SAMPLING SCHEDULES
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- P-0093 AIR POLLUTION AND DEPRESSIVE SYMPTOMS IN THE ELDERLY: THE KOREAN ELDERLY ENVIRONMENTAL PANEL STUDY (KEEPS)
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- P-0094 TIME SERIES ANALYSES OF DAILY MORTALITY ON DAILY PM2.5, PM10 AND BLACK SMOKE LEVELS IN THE NETHERLANDS; IS DISTINGUISHING BETWEEN DIFFERENT PM MEASURES POSSIBLE ?
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- P-0095 LONG-TERM EXPOSURE TO ROAD TRAFFIC AND MORTALITY IN A PROSPECTIVE COHORT OF WOMEN IN GERMANY
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- P-0096 SEASONAL EFFECT OF PM2.5 ON MORTALITY: A CASE-CROSSOVER ANALYSIS IN NINE FRENCH CITIES
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- P-0098 ACUTE HEALTH EFFECTS OF TRAFFIC RELATED AIR POLLUTION AND INTERDEPENDENCIES WITH PHYSICAL ACTIVITY
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- P-0099 THE RELATIONSHIP OF BREAST CANCER SURVIVAL WITH TRAFFIC-RELATED POLLUTION EXPOSURES
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- P-0101 RESIDENTIAL EXPOSURE TO PARTICULATE MATTER AND MONOCLONAL GAMMOPATHY OF UNDETERMINED SIGNIFICANCE
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- P-0102 MORTALITY IMPACTS OF SULPHUR CONCENTRATIONS IN AIR IN 20 EUROPEAN CITIES IN THE APHEKOM PROJECT: A CASE-CROSSOVER DISTRIBUTED LAG APPROACH
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- P-0103 AIR POLLUTION AND HEMATOTOXICITY - A POPULATION-BASED STUDY IN TAIWAN
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- P-0104 INTERACTIONS BETWEEN PARTICULATE AND TEMPERATURE ON NON-ACCIDENTAL DEATHS OF DIFFERENT GENDERS IN BEIJING, CHINA
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- P-0105 LAG STRUCTURE AND HARVESTING EFFECTS OF AIR POLLUTION ON DAILY OUTPATIENT VISITS
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- P-0106 AIR POLLUTION FROM INDUSTRIAL SWINE OPERATIONS AND BLOOD PRESSURE IN NEIGHBORING RESIDENTS
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- P-0107 META-ANALYSIS OF HEALTH EFFECTS ASSOCIATED WITH RESIDENTIAL PROXIMITY TO TRAFFIC
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- P-0108 ASSOCIATION BETWEEN COARSE PARTICLES AIR POLLUTION AND HOSPITAL ADMISSIONS FOR RESPIRATORY AND CARDIOVASCULAR DISEASES IN BUSAN, KOREA
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- P-0110 MULTI-POLLUTANT ASSESSMENT OF SHORT-TERM MORTALITY EFFECTS OF FINE PARTICULATE MATTER, ITS CHEMICAL CONSTITUENTS AND GASEOUS POLLUTANTS IN U.S. CITIES
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- P-0111 ASSOCIATIONS OF LUNG CANCER MORTALITY WITH LONG-TERM EXPOSURE TO PM2.5 COMPONENTS
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- P-0112 DESIGNING RELEVANT STUDY ZONES FOR ECOLOGICAL STUDIES: THE PAISARC+ PROJECT
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- P-0115 EFFECT OF PARTICLES ON DAILY CAUSE-SPECIFIC MORTALITY IN AN URBAN ENVIRONMENT WITH SAHARAN DUST INTRUSIONS
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- P-0116 LONG-TERM EXPOSURE TO AIR POLLUTION FROM TRAFFIC IN EUROPEAN CITIES IN RELATION TO PREGNANCY OUTCOME AS WELL AS AIRWAY DISEASE AND COGNITIVE FUNCTION IN CHILDREN: THE ESCAPE STUDY
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- P-0118 ASSOCIATIONS BETWEEN METEOROLOGICAL FACTORS AND OUTDOOR AIR-POLLUTION IN EACH TRIMESTER WITH ADVERSE BIRTH OUTCOME: 10 YEARS DAILY BIRTHS RECORDS TIME SERIES ANALYSIS
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- P-0119 DNA DAMAGE AND DECREASE OF SPERM QUALITY IN MEN OCUPATIONALLY EXPOSED TO POLYCYCLIC AROMATIC HYDROCARBONS (PAH'S)
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- P-0120 LOW-LEVEL NITROGEN DIOXIDE EXPOSURE AND SMALL FOR GESTATIONAL AGE NEWBORNS IN A KAUNAS COHORT STUDY
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- P-0121 PREVALENCE OF LIP AND PALATE IN COMMUNITIES BRICK ASSOCIATED POLYCYCLIC AROMATIC GUANAJUATO
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- P-0122 RESIDENTIAL PROXIMITY TO MAJOR ROADS AND PLACENTAL WEIGHT RELATIVE TO BIRTH WEIGHT
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- P-0123 PREDICTORS OF ENVIRONMENTAL EXPOSURE TO POLYCYCLIC AROMATIC HYDROCARBONS AMONG PREGNANT WOMEN
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- P-0124 PRENATAL EXPOSURE TO PM2.5 AND ITS RELATIONSHIP WITH LOW BIRTH WEIGHT IN THE INMA-GIPUZKOA COHORT.
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- P-0125 PARTICULATE AIR POLLUTION EXPOSURE AND C-REACTIVE PROTEIN DURING EARLY PREGNANCY
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- P-0126 TIME WINDOW OF EXPOSURE IN THE RELATION TO PRETERM BIRTH FROM AMBIENT AIR POLLUTION
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- P-0127 AMBIENT POLLUTION AND BIRTH OUTCOMES
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- P-0128 COMPARING DIFFERENT EXPOSURE MEASURES OF TRAFFIC-RELATED POLLUTION: A STUDY OF TERM LOW BIRTH WEIGHT IN LOS ANGELES COUNTY, CALIFORNIA
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- P-0129 AIR POLLUTION IN THE BRAZILIAN AMAZON AND SEX SECONDARY RATIO
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- P-0130 TRAFFIC-RELATED AIR POLLUTION INCREASES THE RISK OF FETAL GROWTH RESTRICTION IN PERTH, WESTERN AUSTRALIA
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- P-0131 IMPACT OF EMISSIONS FROM ALUMINUM ELECTROLYSIS PLANTS ON AMBIENT AIR POLLUTION AND PREGNANCY OUTCOMES AND NEWBORN'S HEALTH
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- P-0132 TRAFFIC-RELATED AIR POLLUTION AND RISK OF CONGENITAL ANOMALIES IN BARCELONA
[Anna Schembari](#), Marta Cirach, Audrey de Nazelle, Joaquin Salvador, Payam Davvand, Rob Beelen, Gerard Hoek, Kees de Hoogh, Mark Nieuwenhuijsen, Martine Vrijheid.
- P-0133 EXPOSURE TO POLYCYCLIC AROMATIC HYDROCARBONS AFFECTS SPERM QUALITY
[Anna Jeng](#), Chih-Hong Pan, Ming-Tsang Wu, Radim Sram.
- P-0134 EXPOSURE OF AIR POLLUTION AND CONGENITAL MALFORMATIONS IN STATE OF MATO GROSSO, BRAZILIAN AMAZON
Jane Ignotti, [Eliane Ignotti](#), Sandra Hacon, Karla Longo, Saulo Freitas.
- P-0135 EXPOSURE TO AIR POLLUTION DURING PREGNANCY AND ANTHROPOMETRIC MEASURES AT BIRTH IN FOUR COHORTS IN SPAIN
[Ferran Ballester](#), Marisa Estarlich, Ana Fernandez-Somoano, Inma Aguilera, Aitana Lertxundi, Sabrina Llop, Mikel Basterrexea, Adonina Tardón, Jordi Sunyer, Carmen Iñiguez.
- P-0136 AIR POLLUTION AND REPEATED ULTRASOUND MEASURES OF FETAL GROWTH IN MEXICO CITY
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- P-0139 EFFECTS OF THE METAL COMPONENTS OF AIR PARTICLES ON PEAK EXPIRATORY FLOW RATE OF THE SCHOOL-CHILDREN
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- P-0140 IMPACT OF TRAFFIC AIR POLLUTION ON RESPIRATORY SYMPTOMS IN A CHILDREN COHORT IN FLORENCE, ITALY: A BAYESIAN ANALYSIS
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- P-0141 ACUTE EFFECTS OF AIR POLLUTION ON PEDIATRIC ASTHMA ADMISSIONS IN ATHENS, GREECE
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- P-0142 IMPACT ON CHILDHOOD RESPIRATORY HEALTH BY RESIDENTIAL EXPOSURE TO HIGHWAY TRAFFIC EXHAUST IN AN ALPINE VALLEY IN SWITZERLAND
[Regina Ducret-Stich](#), Harish C. Phuleria, Christian Schindler, L.-J. Sally Liu.
- P-0143 TRAFFIC-RELATED AIR POLLUTION AT HOME AND SCHOOL AND LUNG FUNCTION IN CHILDREN WITH ASTHMA: THE CINCINNATI ANTI-IDLING CAMPAIGN STUDY
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- P-0144 DOES THE PRECISION OF GEOCODING AFFECT ASSOCIATIONS BETWEEN OUTDOOR AIR POLLUTION AND LUNG FUNCTION IN ADULTS?
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- P-0145 ASSOCIATION BETWEEN VEHICULAR DENSITY AND HOSPITALIZATION BY RESPIRATORY DISEASES AMONG CHILDREN IN THE CITY OF SAO PAULO, BRAZIL
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- P-0146 ASSOCIATION BETWEEN VEHICULAR DENSITY AND HOSPITALIZATION BY RESPIRATORY DISEASES AMONG THE ELDERLY IN THE CITY OF SAO PAULO, BRAZIL
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- P-0147 ASSOCIATION BETWEEN OZONE EXPOSURE AND PREVALENCE OF ASTHMA RHINITIS AND RESPIRATORY SYMPTOMS IN URBAN ELEMENTARY SCHOOL CHILDREN IN TORREON COAHUILA MEXICO
[Mario Rivera Guillen](#), Francisca Sanmiguel, Teresa Giron, Alberto Saldaña, Javier Garcia, L. Benjamin Serrano, Javier Moran, Rogelio Recio.

- P-0148 RESPIRATORY HOSPITALIZATIONS OF CHILDREN AND RESIDENTIAL EXPOSURE TO TRAFFIC AIR POLLUTION IN JERUSALEM
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- P-0149 OUTDOOR NO₂ EXPOSURE IS ASSOCIATED WITH PERSISTENT COUGH DURING THE FIRST YEAR OF LIFE
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- P-0151 INTERACTIONS BETWEEN TRAFFIC AIR POLLUTION AND GLUTATHIONE S-TRANSFERASE GENES ON CHILDHOOD ASTHMA
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- P-0152 AIR POLLUTION DECLINE, BODY MASS INDEX AND PULMONARY FUNCTION: THE ROLE OF GENDER
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- P-0153 SAHARAN DUST AND CAUSE-SPECIFIC MORTALITY IN EMILIA-ROMAGNA (ITALY)
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- P-0157 AIR POLLUTION AND MOLECULAR MARKERS OF ASTHMA AMONG UTEP COHORT SIBLING PAIRS
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- P-0158 PRENATAL EXPOSURE TO OUTDOOR AIR POLLUTION IN RELATION TO RESPIRATORY HEALTH, ECZEMA AND OTITIS EARLY IN LIFE
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- P-0160 INDUSTRIAL EXPOSURES AT BIRTH ARE ASSOCIATED WITH REDUCED FORCED VITAL CAPACITY IN CHILDHOOD
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- P-0161 LUNG INFLAMMATION AMONG CHILDREN WITH ASTHMA EXPOSED TO INDUSTRIAL AND TRAFFIC POLLUTION
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- P-0162 ASSOCIATION BETWEEN PARTICULATE MATTER(PM), O₃ AND NO_x AND EMERGENCY ROOM(ER) VISITS AND HOSPITAL ADMISSION FOR RESPIRATORY AND CARDIOVASCULAR DISEASES IN CALI-COLOMBIA
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- P-0164 INTERACTION BETWEEN BMI AND AIR POLLUTION IN RELATION TO LUNG FUNCTION AND EXHALED NITRIC OXIDE IN A COHORT OF ADOLESCENTS WITH OBESITY
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- P-0165 TRAFFIC-RELATED EXPOSURES AND HEALTH OUTCOMES OF CHILDREN WITH ASTHMA LIVING BOTH NEAR AND FAR FROM HIGHWAYS
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- P-0169 ASSOCIATIONS BETWEEN FEMALE LUNG CANCER MORTALITY AND NO, NOX, AND NO2 IN KAOHSIUNG, TAIWAN
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- P-0170 AIR POLLUTION AND LUNG HEALTH IN AUSTRALIAN SCHOOL CHILDREN: A PANEL STUDY
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- P-0172 EARLY LIFE EXPOSURE TO AIR POLLUTION AND RESPIRATORY SYMPTOMS IN CHILDREN: RESULTS FROM A BIRTH COHORT
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- P-0174 HOSPITAL ADMISSIONS AND MORTALITY AS COMPLEMENTARY OUTCOMES IN EVALUATING THE SHORT-TERM EFFECTS OF AIR POLLUTION ON RESPIRATORY HEALTH
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- P-0175 A LONGITUDINAL STUDY OF EXPOSURE TO LIVESTOCK ODOR AND SYMPTOM REPORTS IN CHILDREN
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- P-0176 LONG-TERM CONCENTRATIONS OF AMBIENT AIR POLLUTANTS AND RISK OF DEATH AMONG SUBJECTS WITH CHRONIC OBSTRUCTIVE PULMONARY DISEASE (COPD)
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- P-0177 EFFECTS OF LONG-TERM AMBIENT HYDROGEN SULFIDE EXPOSURE ON ASTHMA AND LUNG FUNCTION
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- P-0178 TRAFFIC-RELATED AIR POLLUTION INCREASES THE RISK OF EMERGENCY DEPARTMENT PRESENTATION WITH ASTHMA AMONG YOUNG CHILDREN IN WESTERN AUSTRALIA
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- P-0179 EFFECTS OF PRENATAL EXPOSURE TO AMBIENT AIR POLLUTION ON RESPIRATORY HEALTH IN EARLY LIFE SOME METHODOLOGICAL CONSIDERATIONS BASED ON 'EDEN MOTHER-CHILD' COHORT
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- P-0180 CHARACTERIZATION OF GLOBAL DNA METHYLATION AT LINE-1 IN A COHORT OF URBAN ASTHMATIC CHILDREN WITH A GRADIENT OF EXPOSURE TO HIGHWAYS
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- P-0181 OZONE AND CHILDREN'S HEALTH: TOWARD IMPROVING CONSIDERATION IN AIR QUALITY DECISIONS
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- P-0183 IMPACT OF AIR POLLUTION ON THE RESPIRATORY HEALTH OF CHILDREN WITH SICKLE CELL ANEMIA IN ATLANTA, GEORGIA USA
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- P-0185 ACUTE EFFECTS OF OZONE AND PM10 ON PEAK EXPIRATORY FLOW: A PANEL STUDY OF SCHOOLCHILDREN IN THE WESTERN BRAZILIAN AMAZON
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- P-0186 LUNG FUNCTION, RESPIRATORY AND MENTAL SYMPTOMS AMONG INHABITANTS EXPOSED TO VOLCANIC ASH FROM THE EYJAFJALLAJÖKULL ERUPTION, ICELAND
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- P-0187 EXPLORING A NEW GENERATION OF ENVIRONMENTAL HEALTH OUTCOME INDICATORS FOR ASTHMA
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- P-0188 AIR POLLUTION AND AIRWAY INFLAMMATION: A TIME LAG BETWEEN NO2 AND O3
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- P-0189 COPD, SMOKING AND SES IN FOUR POPULATION-BASED COHORTS AS PART OF DATA HARMONIZATION IN THE ESCAPE PROJECT
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- P-0190 IS ECONOMIC PROGRESS MAKING CHILDREN SICK
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- P-0191 HAVE SHORT-TERM EFFECTS OF ENVIRONMENTAL EXPOSURE ON PNEUMONIA MORTALITY BEEN UNDER-ESTIMATED BECAUSE HOSPITALISATION IS IGNORED?
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- P-0192 MULTIPARAMETRIC ASSESSMENT OF AMBIENT AIR PM IMPACT ON RESPIRATORY HEALTH
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- P-0193 DAILY CHANGES IN AIR POLLUTION AND LUNG FUNCTION IN THE FRESNO ASTHMATIC CHILDREN'S ENVIRONMENT STUDY: USE OF INDIVIDUAL-LEVEL EXPOSURE ESTIMATES OF AIR POLLUTANT CONCENTRATIONS
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- P-0194 ESTIMATION OF THE OVERALL EFFECT OF PM10 ON HOSPITAL ADMISSIONS FOR RESPIRATORY DISEASES IN NINE CITIES IN THE METROPOLITAN REGION OF SÃO PAULO (MRSP), BRAZIL
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- P-0195 ASSOCIATION OF FINE AND COARSE PARTICLES WITH EMERGENCY HOSPITAL ADMISSIONS FOR RESPIRATORY DISEASES IN CANARY ISLAND
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- P-0196 INDOOR PARTICULATE MATTER CONCENTRATIONS ARE HIGHER DURING AFRICAN DUST SEASON IN HOMES OF CHILDREN WITH ASTHMA IN BARBADOS
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- P-0198 DETERMINANTS OF URINARY ARSENIC CONCENTRATION IN A MEXICAN POPULATION
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- P-0200 PAST ARSENIC EXPOSURE, ARSENICAL SKIN LESIONS AND ABNORMALITY OF LUNG FUNCTION IN SOUTHWESTERN TAIWAN
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- P-0201 THE ROLE OF GENDER IN INORGANIC ARSENIC INDUCED OXIDATIVE STRESS AMONG BANGLADESHI POPULATION EXPOSED TO HIGH ARSENIC THROUGH DRINKING WATER
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- P-0202 SPATIAL ANALYSIS OF DRINKING GROUNDWATER AND BLADDER CANCER RISK IN SOUTHWESTERN TAIWAN: AN APPLICATION OF GENERALIZED ADDITIVE MODELS TO CASE-CONTROL DATA
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- P-0203 USE OF FINGERSTICK BLOOD COLLECTION FOR THE MEASUREMENT OF BLOOD ARSENIC
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- P-0204 TOENAIL ARSENIC CONCENTRATIONS AMONG RESIDENTS OF A COAL MINING AREA OF THE APPALACHIAN MOUNTAINS OF THE UNITED STATES: A PILOT STUDY
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- P-0205 EXPOSURE TO METALS AND GENE-SPECIFIC METHYLATION IN COMMUNITY-DWELLING ELDERLY MEN
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- P-0206 ARSENIC METABOLITES IN HUMAN URINE AFTER INGESTION OF SASHIMI TSUNA FISH
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- P-0207 THE MECHANISMS OF MOTOR AND SENSORY NERVE DYSFUNCTION AFTER CHRONIC ARSENIC EXPOSURE IN THE RATS
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- P-0208 LOW-LEVEL ARSENIC EXPOSURE AND OBSTRUCTIVE PULMONARY DISEASE IN THE U.S. POPULATION
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- P-0209 ARSENIC METHYLATION AND SQUAMOUS CELL CARCINOMA IN A US POPULATION BASED CASE-CONTROL STUDY
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- P-0210 ARSENIC BIOMONITORING IN RURAL NOVA SCOTIA, CANADA
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- P-0211 ARSENIC AND T CELL FUNCTION IN AN ENVIRONMENT-MATERNAL INTERACTION STUDY (ARTEMIS)
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- P-0212 GSTO AND AS3MT GENE POLYMORPHISMS AND DIFFERENCES IN URINARY ARSENIC CONCENTRATIONS AMONG RESIDENTS IN BANGLADESH
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- P-0213 GENOMIC METHYLATION OF PERIPHERAL BLOOD LEUKOCYTES AMONG ARSENIC EXPOSED MATERNAL-NEWBORN PAIRS
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- P-0214 INTERACTION BETWEEN ARSENIC CONCENTRATION IN DRINKING WATER AND GSTT1 GENE POLYMORPHISM IN TOENAIL ARSENIC CONCENTRATION OF CHILDREN
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- P-0215 ASSOCIATION OF PLASMA CHOLINE AND BETAINE WITH ARSENIC METYLATION
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- P-0216 A HEALTH SURVEY FROM ARSENIASIS-ENDEMIC AREAS IN SOUTHWESTERN TAIWAN
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- P-0218 ADAPTIVE RESPONSE TO HIGH EXPOSURE OF CARCINOGENIC POLYCYCLIC AROMATIC HYDROCARBONS
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- P-0219 CORDBLOOD ACRYLAMIDE LEVELS AND GENE EXPRESSION IN NEWBORN EXPOSED DURING PREGNANCY
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- P-0220 URINARY BIOMARKERS OF EXPOSURE TO GLYCOL ETHERS AND ADVERSE PREGNANCY OUTCOME
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- P-0222 CORDBLOOD ACRYLAMIDE AND GLYCIDAMIDE HAEMOGLOBIN ADDUCTS, METABOLIC POLYMORPHISMS AND MICRO-NUCLEUS FREQUENCY
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- P-0223 DERMAL EXPOSURES TO SARIN IN MILITARY VETERANS AT PORTON DOWN
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- P-0224 BIOMONITORING OF ACRYLAMIDE, GLYCIDAMIDE AND N-ACETHYL-S- (2-CARBAMOYLETHYL) CYSTEIN IN HUMAN URINE
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- P-0225 DEMOGRAPHIC AND LIFESTYLE FACTORS AFFECTING GENOMIC BLOOD DNA METHYLATION BIOMARKER LEVELS
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- P-0227 URINARY CONCENTRATIONS OF BISPHENOL-A IN AN URBAN MINORITY BIRTH COHORT IN NEW YORK CITY, PRENATAL THROUGH AGE 7 YEARS
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- P-0228 THE UNIQUE PHARMACOKINETIC CHARACTERISTICS OF BISPHENOL-A IN AMNIOTIC FLUID: THE IMPLICATION OF FETAL EXPOSURE
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- P-0229 DERMAL TRANSMISSION OF BISPHENOL A IN HUMANS FROM THERMAL RECEIPT PAPER
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- P-0230 LOW DOSE MIXTURE EFFECTS OF BISPHENOL A AND ISOBUTYLPARABEN FOR THE MALE REPRODUCTIVE SYSTEM
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- P-0231 PRENATAL MATERNAL AND NEONATAL URINARY BISPHENOL A AND NEURODEVELOPMENT IN THE FIRST TWO YEARS FROM THE MOCEH STUDY
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- P-0232 BPA IS RELATED TO ABNORMAL LIVER FUNCTION: THE KOREAN ELDERLY ENVIRONMENTAL PANEL STUDY (KEEPS)
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- P-0233 URINARY BISPHENOL-A AND HEMOGLOBIN A1C LEVELS IN U.S. ADULTS USING DATA FROM NHANES 2003/08
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- P-0234 QUANTIFICATION OF FREE AND CONJUGATED BISPHENOL A IN HUMAN FETAL LIVER TISSUE
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- P-0236 COULD ENDOCRINE DISRUPTING CHEMICALS ALTER PARTNER PREFERENCE IN HUMAN? A DEBATE FOR BISPHENOL A
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- P-0239 COMMUNITY HEALTH BUILDING: ENVIRONMENTAL APPROACH
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- P-0240 METHODS FOR THE ASSESSMENT OF FOOD AND PHYSICAL ACTIVITY ENVIRONMENTS: BROOKLYN SENIORS AND THE BUILT ENVIRONMENT (BSBE) STUDY
Kimberly Morland, Kelly Evenson, Richard Bordowitz, James Godbold, Evelyn Granieri, Arlene Spark, Philip Landrigan.
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- P-0241 THE PRESSURES OF URBAN SPRAWL, ENVIRONMENTAL CONDITIONS AND THE EFFECTS ON HEALTH IN THE MUNICIPALITY OF EL SALTO, JALISCO, MEXICO
Arturo Curiel, Guadalupe Garibay.
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- P-0242 THE ANALYSIS OF PUBLIC HEALTH USING THE URBAN AUDIT DATA
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- P-0243 WHICH ASPECTS OF THE PERCEIVED URBAN ENVIRONMENT ARE ASSOCIATED WITH SELF-RATED HEALTH AND PHYSICAL ACTIVITY IN THE CITY OF GRAZ (AUSTRIA)?
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- P-0245 RESIDENTIAL HISTORY, DURATION OF ENVIRONMENTAL AND NEIGHBORHOOD SOCIOECONOMIC EXPOSURES AND MENTAL AND CARDIOVASCULAR HEALTH
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- P-0247 ENVIRONMENTAL CONTAMINATION AND ITS IMPACT ON PREGNANCY FREQUENCY IN ESTUARY OF SANTOS AND SÃO VICENTE, SÃO PAULO, BRAZIL
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- P-0248 ADOLESCENT NEIGHBORHOOD ENVIRONMENT AND ELEVATED BLOOD PRESSURE IN YOUNG ADULTHOOD
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- P-0250 A PRELIMINARY EVALUATION OF ENVIRONMENTAL LIGHT POLLUTION, ANTHROPOMORPHIC CHARACTERISTICS, AND BEHAVIORAL FACTORS IN PREDICTING URINARY MELATONIN METABOLITE CONCENTRATIONS
Peggy Reynolds, Susan Hurley, David Nelson, Erika Garcia, Robert Gunier, Andrew Hertz.
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- P-0251 HEALTH IMPACTS OF THE BUILT ENVIRONMENT: PHYSICAL INACTIVITY, EXPOSURE TO AIR POLLUTION, AND ISCHEMIC HEART DISEASE
Steve Hankey, Julian Marshall, Michael Brauer.
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- P-0252 OUTDOOR AIR POLLUTION AND SOCIAL STRESSORS ACROSS NYC COMMUNITIES: A GIS-BASED SPATIAL CORRELATION STUDY OF MULTIPLE EXPOSURES IN THE URBAN ENVIRONMENT
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- P-1094 BUILT ENVIRONMENT AND HEALTH: ANALYSIS OF NEIGHBOURHOOD ENVIRONMENT WITHIN 5- AND 10-MINUTE WALKING DISTANCE OF THE HOME
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- P-0254 ESTIMATING CANCER RISK AMONG RESIDENTS LIVING IN PROXIMITY TO PETROLEUM STORAGE TANKS: THE CASE OF KIRYAT HAIM, ISRAEL
Marina Zusman, Micha Barchana, Jonathan Dubnov, Boris Portnov.
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- P-0256 ANOGENITAL DISTANCE AS A MARKER OF IN-UTERO HORMONAL EXPOSURES, AND BREAST AND PROSTATE CANCER RISK. A PILOT STUDY.
Gemma Castaño-Vinyals, Estela Carrasco, Yasmin Sabaté, Judith Cirac, José Antonio Lorente, Ignasi Tusquets, Marina Pollan, Manolis Kogevinas.
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- P-0257 ENVIRONMENTAL EXPOSURES AND CHILDHOOD LEUKEMIA: AN EXPLORATORY ANALYSIS IN BRAZIL
Jeniffer Dantas Ferreira, Arnaldo César Couto, Maria do Socorro Pombo-de-Oliveira, Sergio Koifman.
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- P-0258 THE PREVALENCE OF BREAST CANCER IN SLOVAKIA
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- P-0259 CHILDHOOD ACUTE LYMPHOCYTIC LEUKEMIA AND ESTIMATED EXPOSURE TO HAZARDOUS AIR POLLUTANTS
Robert Gunier, Catherine Metayer, [Stephen Francis](#), Peggy Reynolds, Patricia Buffler.
- P-0260 INCREASE INCOME AND MORTALITY OF COLORRECTAL CANCER IN BRAZIL
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- P-0261 TREND OF MORTALITY OF BREAST AND CERVIX CANCER IN THE BRAZILIAN CAPITALS FROM 1996 TO 2007
[Raphael Guimaraes](#), Marcelle Ribeiro, Carolina Chagas, Juliana Capilupi, Camila Muzi, Andréia Ayres.
- P-0262 OCCUPATIONAL AND ENVIRONMENTAL FACTORS RELATED TO THE INCIDENCE OF MALIGNANT MESOTHELIOMA IN THE URBAN AREA OF ROME, 2001-2009
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- P-0263 QUALITY OF LIFE IN BRAZILIAN WOMEN WITH BREAST CANCER ASSOCIATION WITH THE SOCIAL ENVIRONMENT
[Daniele Bittencourt Ferreira](#), Anke Bergmann, Rosalina Jorge Koifman.
- P-0264 EVALUATING ENVIRONMENTAL RISKS IN CHILDREN DIAGNOSED WITH SOLID TUMORS: SINGLE INSTITUTION STUDY
[Robin Rohrer](#).
- P-0265 QUALITY OF LIFE AND THE RELATIONSHIP WITH EARLY COMPLICATIONS OF BREAST CANCER TREATMENT IN BRAZILIAN WOMEN
[Daniele Bittencourt Ferreira](#), Rosalina Jorge Koifman, Anke Bergmann.
- P-0266 THE ASSOCIATION BETWEEN SOCIAL ENVIRONMENT AND EARLY COMPLICATIONS IN WOMEN WITH BREAST CANCER IN A REFERENCE CENTER IN BRAZIL
[Daniele Bittencourt Ferreira](#), Rosalina Jorge Koifman, Anke Bergmann.
- P-0267 NON-HODGKIN LYMPHOMA TIME TRENDS IN BRAZIL, 1980-2008
[Patricia Bocolini](#), Cristiano Bocolini, Ubirani Otero, Armando Meyer.
- P-0755 ENVIROMENTAL EXPOSURE TO CADMIUM IS ASSOCIATED WITH INCREASED RISK OF CANCER
[Aviad Zick](#), Yakir Rottenberg, Moshe Shirav-Schwartz, Micha Barchana, Tamar Peretz.
- P-0759 TRITIUM: RELATIVE BIOLOGICAL EFFECTIVENESS AND CANCER RISK
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- P-0270 THE ASSOCIATION BETWEEN GEOMAGNETIC STORMS, SOLAR PARTICLE EVENTS AND HOSPITAL ADMISSIONS FOR FIRST MYOCARDIAL INFARCTION
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- P-0271 MIXTURES OF PLASTIC ASSOCIATED CHEMICALS, HIGHLY CHLORINATED PCBS, CADMIUM AND MERCURY ARE RELATED TO ATHEROSCLEROSIS
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- P-0273 GEOGRAPHIC AND GENDER DIFFERENCES IN AUTISM SPECTRUM DISORDERS AMONG CHILDREN: ANALYSIS OF THE DATA FROM THE NATIONAL REGISTRY IN TAIWAN
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- P-0274 PERSISTENT EFFECT OF PRENATAL DOCOSAHEXAENOIC ACID ON HEART RATE VARIABILITY AND COGNITIVE DEVELOPMENT IN CANADIAN INUIT CHILDREN
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- P-0275 THE ROLE OF ENVIRONMENTAL POLLUTANTS IN THE CAUSATION OF BIRTH DEFECTS IN CALI, COLOMBIA: DEVELOPMENT OF A RESEARCH STRATEGY WITH AN INTERDISCIPLINARY APPROACH
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- P-0276 RELIABILITY OF MEASUREMENTS OF ANOGENITAL DISTANCE AND PENIS WIDTH IN BOYS AND ANOGENITAL DISTANCE IN GIRLS. MOTHER-CHILD COHORT IN CRETE (RHEA STUDY)
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- P-0277 THE MULTIFACTORIAL ORIGIN OF VASCULAR DISRUPTION DEFECTS IN CALI, COLOMBIA: A CASE CONTROL STUDY
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- P-0278 JAPAN ENVIRONMENT AND CHILDREN'S STUDY PILOT STUDY AND RESEARCH LAUNCH
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- P-0279 THE EFFECTIVENESS OF HEALTH-RELATED PHYSICAL FITNESS INTERVENTION PROGRAM TOWARD ELEMENTARY SCHOOL CHILDREN: AN EXPERIENCE OF HEALTH PROMOTING SCHOOL IN TAIWAN
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- P-0280 THYROID FUNCTION DURING PREGNANCY AND NEURODEVELOPMENT AT 1-2 YEARS: THE INMA PROJECT AND THE RHEA STUDY.
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- P-0281 A PILOT STUDY ON ELEMENTARY SCHOOL STUDENTS' PHYSICAL ACTIVITIES: FAMILY INVOLVEMENT BASE RESEARCH
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- P-0282 4-YEAR-OLD NEURODEVELOPMENT AND EARLY LIFE DETERMINANTS ARE LONGITUDINALLY ASSOCIATED TO 11-YEAR-OLD ATTENTION FUNCTION
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- P-0283 ASSOCIATION BETWEEN PARENTAL ALCOHOL-RELATED BEHAVIORS AND CHILDREN'S DRINKING
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- P-0284 EXPOSURE TO PARENTAL SMOKING AND THE RISK OF SMOKING UPTAKE IN PUPILS
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- P-0285 INTERACTION OF ENVIRONMENTAL FACTORS AND SEX ON THE PREVALENCE OF CONGENITAL ANOMALIES
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- P-0286 DELIVERY TYPE NOT ASSOCIATED WITH DIFFERENTIAL METHYLATION AT BIRTH
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- P-0287 BREASTFEEDING PATTERNS EVOLUTION BETWEEN 1999 AND 2008 AND ITS RELATIONSHIP WITH DIARRHEA HOSPITALIZATION
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- P-0288 WHY A CHILDREN ENVIRONMENTAL HEALTH? DIFFERENCES IN CHILDREN'S VULNERABILITY TO POLLUTION AND SANITATION
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- P-0289 ANALYTICAL UNITS BASED ON NATURAL SYSTEMS IN UNDERSTANDING ENVIRONMENTAL FACTORS ASSOCIATED WITH DISEASE: A CASE-STUDY OF PEDIATRIC DIARRHEA IN BRAZIL
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- P-0290 ADVERSE PREGNANCY OUTCOMES AND MATERNAL URBAN OR RURAL RESIDENCE AT BIRTH
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- P-0291 PREVALENCE OF RESPIRATORY DISEASES AND ENVIRONMENTAL FACTORS IN THE CHILDREN IN CUIABÁ, SOUTHERN BRAZILIAN AMAZON
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- P-0292 HIERARCHICAL APPROACH OF FACTORS RELATED TO INCOME, HOME ENVIRONMENT AND OCCURRENCE OF ASTHMA IN ALTA FLORESTA-BRAZILIAN AMAZON
Antonia Maria Rosa, Eliane Ignotti, Sandra de Souza Hacon.
- P-0293 PARTICIPANT EXPERIENCE IN THE U.S. NATIONAL CHILDREN'S STUDY, SALT LAKE COUNTY VANGUARD CENTER
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- P-0434 CADMIUM AND ARSENIC EXPOSURE FACTORS IN A POPULATION LIVING ON POLLUTED SOILS, CASSIOPÉE STUDY, AVEYRON, FRANCE, 2008
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- P-0440 THE FRENCH SURVEY ON BLOOD LEAD LEVEL IN CHILDREN, SATURN-INF 2008-2009
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- P-0456 ORGANOCHLORINE PESTICIDES AND PCBs IN NEWBORNS IN A GENERAL POPULATION OF A STRONGLY INDUSTRIALIZED AREA
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- P-0457 A MODEL-BASED APPROACH TO LIMIT OF DETECTION IN STUDYING ENVIRONMENTAL CHEMICAL EXPOSURES AND TIME TO PREGNANCY
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- P-0464 CAREX CANADA: OCCUPATIONAL AND ENVIRONMENTAL CARCINOGEN SURVEILLANCE
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- P-0470 ADDITION OF MEASUREMENTS OF BISPHENOL A IN URINE TO THE STUDY PROTOCOL FOR A EUROPEAN HUMAN BIO-MONITORING (HBM) PILOT STUDY
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- P-0472 LONG-TERM TRENDS OF POPs IN HUMAN MILK IN CZECH REPUBLIC AND APPLICATION FOR HUMAN HEALTH RISK ASSESSMENT
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- P-0473 CHARACTERIZATION OF PREGNANT WOMEN EXPOSURE TO CD AND PB IN TAP WATER AND FRESH-FOOD IN CALI COLOMBIA
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- P-0475 DETERMINATIONS OF ENDOCRINE DISRUPTORS IN ENVIRONMENTAL USING SPE AND GAS CHROMATOGRAPHY-TANDEM MASS SPECTROMETRY
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- P-0479 PROFILING SO₂ AIR POLLUTION PATTERNS IN 9 EU APHEKOM CITIES THE APHEKOM PROJECT
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- P-0480 EXPOSURE OF ENVIRONMENTAL POLLUTANTS IN GANGNEUNG AS A NON-INDUSTRIAL AREA IN KOREA
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- P-0488 ANIMAL CONFINEMENT BUILDINGS AS A SOURCE OF AMBIENT PM₁₀ AND ENDOTOXIN PM₁₀
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- P-0490 NETWORKED LOW COST PERSONAL AIR QUALITY MONITOR INITIAL FINDINGS
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- P-0497 THE CONTRIBUTION OF SHIPS TO MEASURED NO_x AND ULTRAFINE PARTICLE CONCENTRATIONS ALONG THE WATERWAYS IN AMSTERDAM
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- P-0498 POLLUTION CHARACTERISTICS AND RESIDENTIAL INDOOR-OUTDOOR RELATIONSHIPS OF PM10 ELEMENT IN ONE COMMUNITY IN TIANJIN
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- P-0499 SOURCE APPORTIONMENT OF PM10 PERSONAL EXPOSURE OF AN ELDERLY POPULATION IN ONE COMMUNITY, TIANJIN
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- P-0500 SOURCE IDENTIFICATION AND APPORTIONMENT OF PARTICULATE MATTER IN ACCRA, GHANA
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- P-0501 ANALYSIS OF CHARACTERISTICS AND SOURCES OF PM10-BOUND PAHS IN TIANJIN CITY
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- P-0502 PERSONAL EXPOSURE TO ULTRAFINE PARTICLES; BLACK CARBON AND PM2.5 IN DIFFERENT MICROENVIRONMENTS
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- P-0504 RETROSPECTIVE SPATIOTEMPORAL AIR POLLUTION EXPOSURE ASSESSMENT FOR A NATIONAL CANADIAN LUNG CANCER CASE-CONTROL STUDY
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- P-0505 COMPARISON OF METHODS FOR ESTIMATING PERSONAL BLACK CARBON EXPOSURES IN URBAN SETTINGS
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- P-0506 DETERMINANTS OF INDOOR AND OUTDOOR LEVELS OF NO₂ IN A COHORT OF 4-YEARS-OLD CHILDREN
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- P-0507 MODELING EXPOSURES TO THE OXIDATIVE POTENTIAL OF AMBIENT PARTICULATE MATTER IN LONDON
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- P-0508 ASSESSING LITTLELEAF LINDEN (TILIA CORDATA) AND NORWAY MAPLE (ACER PLATANOIDES) LEAVES AS MEDIA FOR MONITORING HEAVY METAL AIR POLLUTION IN WINDSOR, ONTARIO, CANADA
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- P-0509 MAPPING ENVIRONMENTAL HAZARDS AND BLACK CARBON MEASUREMENTS IN AN IMMIGRANT COMMUNITY
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- P-0510 A METHODOLOGY TO ESTIMATE CANADIANS' EXPOSURE TO TETRACHLOROETHYLENE IN OUTDOOR AIR USING INDUSTRIAL AND MICRO-EMITTER DATABASES
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- P-0511 USE OF REMOTE SENSING ESTIMATES OF NO₂ AND PM2.5 EXPOSURE IN A STUDY OF HOSPITAL AND EMERGENCY ROOM VISITS IN ONTARIO, CANADA
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- P-0514 EFFECTIVENESS OF INTERVENTIONS IN IMPROVING INDOOR AND OUTDOOR AIR QUALITY: PRELIMINARY RESULTS FROM A RANDOMIZED TRIAL OF WOODSMOKE AND ASTHMA
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- P-0515 EPIDEMIOLOGY OF MUNICIPALITIES WITH RISK FACTORS AHEAD OF AIR POLLUTION AND RELATED HEALTH PROBLEMS
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- P-0516 DO MORE ACCURATE EXPOSURE PREDICTIONS ALWAYS IMPROVE HEALTH EFFECT ESTIMATES?
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- P-0517 AIR QUALITY CHANGES AFTER COMMISSIONING OF AN URBAN ROAD TUNNEL
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- P-0519 LAND USE REGRESSION MODELS OF PM10 AND NO2 CONCENTRATIONS IN TAIPEI
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- P-0520 PERSONAL EXPOSURE AND RISK ASSESSMENT OF VOLATILE ORGANIC COMPOUNDS OF ELEMENTARY CHILDREN
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- P-0521 PERSONAL EXPOSURE TO CARCINOGENIC AIR POLLUTANTS IN STOCKHOLM, SWEDEN: A COMPARISON OVER TIME
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- P-0522 WHAT IS THE BEST INDICATOR OF THE ADVERSE HEALTH EFFECTS OF COMBUSTION PARTICLES: BLACK CARBON OR PARTICLE MASS?
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- P-0523 COMPARISON OF LAND-USE REGRESSION MODELS OVER A THREE YEAR PERIOD IN OSLO, NORWAY
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- P-0524 HIGHER URINARY 1-HYDROXYPYRENE LEVELS FOR RESIDENTS LIVING CLOSER TO A PETROCHEMICAL COMPLEX
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- P-0526 OCCUPATIONAL EXPOSURE AND AMBIENT CONTAMINATION BY NATURALLY OCCURRING ASBESTOS IN VALMALENCO (ITALY)
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- P-0527 SIZE DISTRIBUTION OF PARTICLE-BOUND N-ALKANES AND POLYCYCLIC AROMATIC HYDROCARBONS AT AN URBAN MEDITERRANEAN LOCATION
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- P-0528 AMBIENT AND PERSONAL PM10 EXPOSURE IN WOMEN IN RELATION TO TIME ACTIVITY, SOCIOECONOMIC STATUS, AND LOCATION OF RESIDENCE IN DELHI, INDIA
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- P-0707 RELATIONSHIPS BETWEEN LEAD EXPOSURE AND MATERNAL CORTISOL CONCENTRATIONS DURING PREGNANCY
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- P-0743 LEAD AND CADMIUM EXPOSURE AMONG A COHORT OF PREGNANT WOMEN IN CALI-COLOMBIA: THE GEMA STUDY
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- P-0768 THE DEBATS STUDY: HEALTH EFFECTS OF AIRCRAFT NOISE NEAR THREE FRENCH AIRPORTS
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- P-0769 MYOCARDIAL INFARCTION INCIDENCE AND ROAD TRAFFIC NOISE EXPOSURE, PISA (ITALY), 2002-2006
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- P-0887 FACTORS AFFECTING PRENATAL ENVIRONMENTAL MANCOZEB EXPOSURE AMONG INFANTS IN THE INFANTS' ENVIRONMENTAL HEALTH (ISA) STUDY
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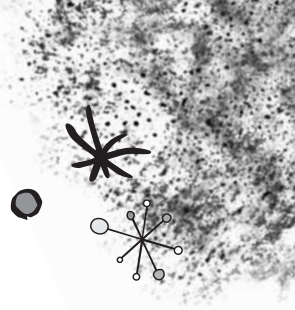
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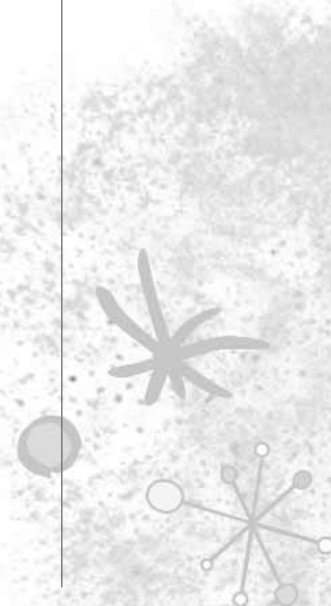
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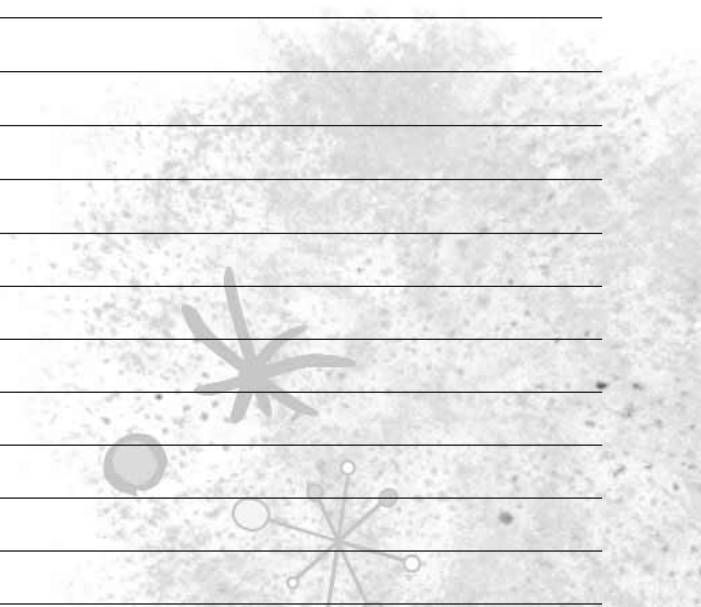
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Zusman, M. - P-0254

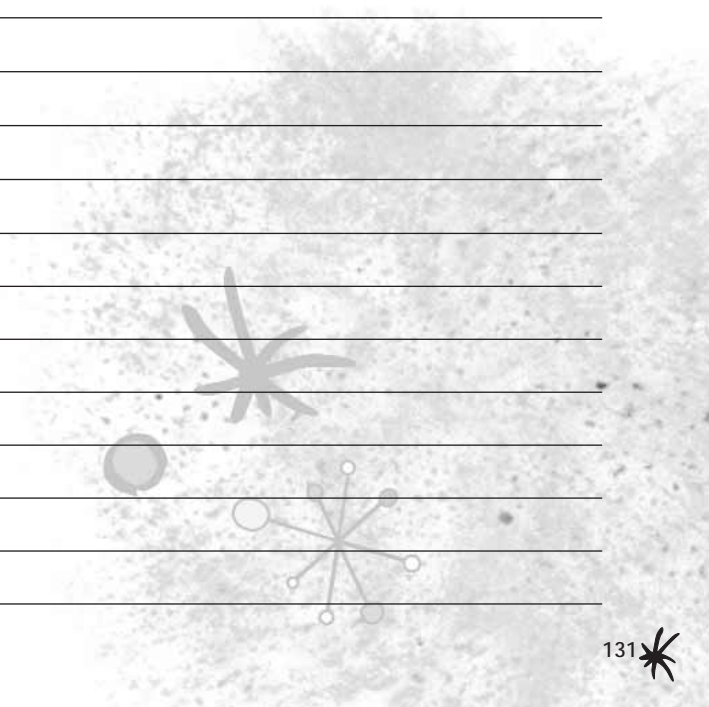
Z Zablotska, L. - S-0029
Zaitseva, N. - P-0217 and P-0795
Zaldua, I. - P-1066 and S-0116
Zamaro, Gianna - P-0042
Zambelli-Weiner, A. - O-0043
Zamotayeva, G. - S-0029
Zandveld, P. - O-0217
Zanobetti, A. - O-0156, P-0038, P-0052, P-0057, P-0184, P-0297, P-0761 and S-0055
Zanotti, S. - P-0407, P-0717 and P-0833
Zarco, J. - P-0591
Zareba, W. - O-0114 and P-0047
Zauli Sajani, S. - P-0085, P-0153, P-0361 and P-0542
Zawide, F. - P-0576



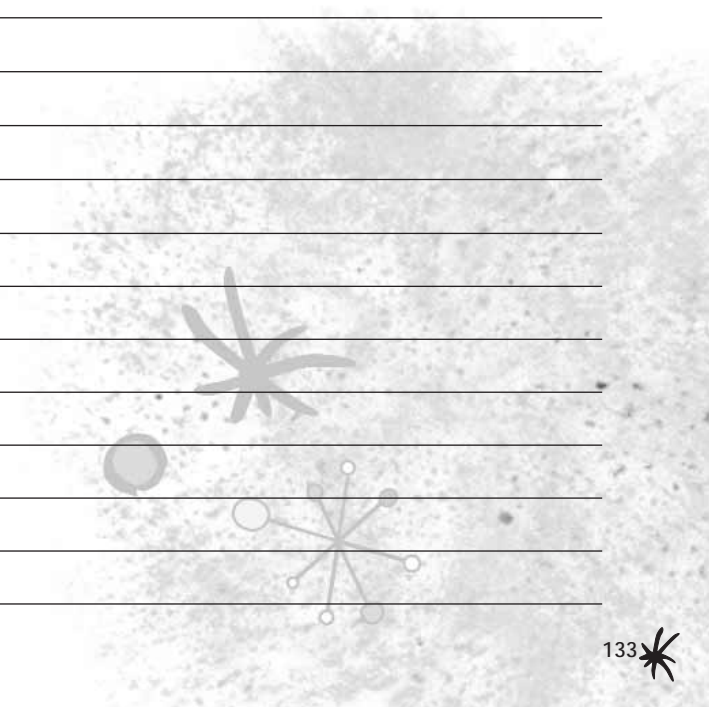
Lined writing area with horizontal lines.



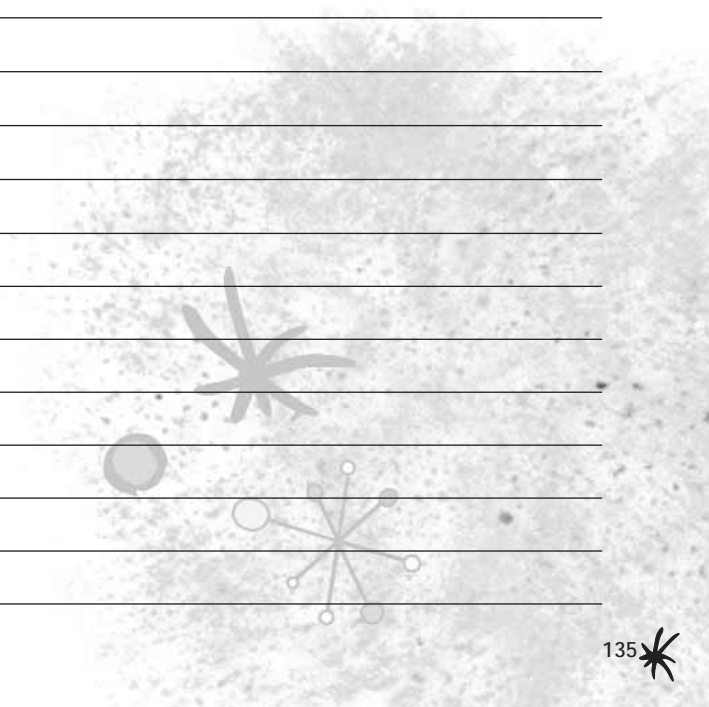
Lined writing area with horizontal lines.



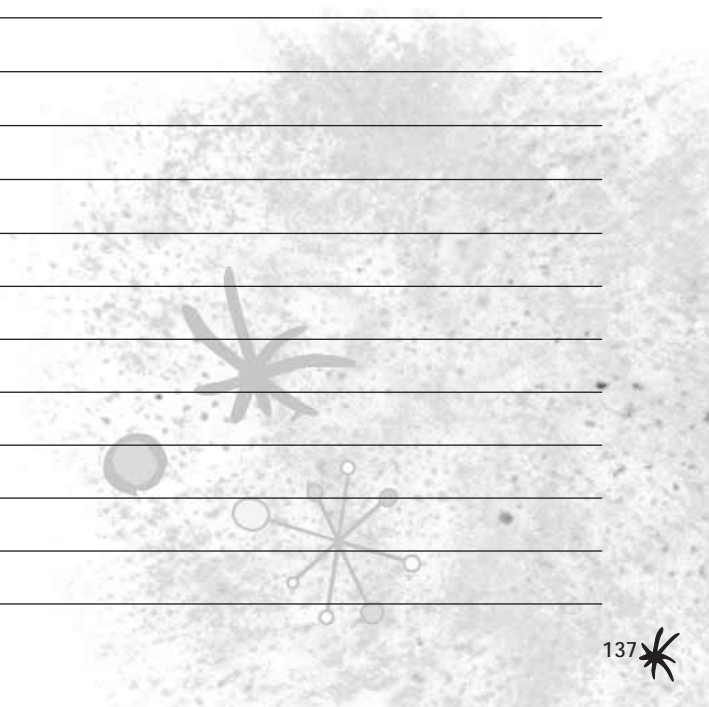
Lined writing area consisting of 25 horizontal lines.

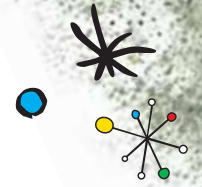


Lined writing area consisting of 25 horizontal lines.



Lined writing area consisting of 25 horizontal lines.





Social Programme

Tuesday, September 13th

Welcome Cocktail and Wine Tasting ▶ 18:30-20:00

After the Opening Ceremony, a Welcome Cocktail and a Wine Tasting for all participants of ISEE 2011 will be offered on September 13th, from 18:30 to 20:00 hours at the Palau de Congressos de Barcelona.

Thursday, September 15th

Conference Dinner ▶ 20:00 - late

The ISEE 2011 Conference Dinner on September the 15th is included in the registration fee for all participants (unless you have chosen a discount fee without conference dinner).

Price per extra ticket: 80.00€

The Conference Dinner will be offered at the Maritime Museum in Barcelona, Marqués de Comillas Hall.

“Marqués de Comillas” Hall:

The architectural ensemble of the Royal Shipyards of Barcelona, home to the Maritime Museum, is one of the most important monuments of Gothic architecture for industrial use in the world. Between its spaces we find the “Marqués de Comillas” Hall, emblematic and spectacular complex resulting from the enlargement of Gothic naves of the seventeenth century and where the ISEE 2011 Conference Dinner will be held.

We are confident that with this wonderful environment, the ISEE 2011 Dinner will be a success that you will always remember with a smile.

Address Museu Maritim de Barcelona
Av. de les Drassanes s/n, Barcelona

How to arrive: Metro Line 3-green, “Drassanes” stop (“Portal de Santa Madrona” exit). Buses: lines 14, 18, 36, 38, 57, 59, 64 & 91

Conference Venue Information

How to get to the Conference Venue from the Airport

On arrival at Barcelona’s El Prat Airport, you have the following options to get to the Conference Venue:

By bus: Take the Aerobus in front of your arrival terminal (there are buses available in both T1 and T2 terminals) and get off at Espanya square (Barcelona). The trip takes approximately 30 minutes, and buses run every 15 minutes from 6:00a.m. to 12:30a.m. The cost of one way trip is about €5.10 and round trip costs about €8.75. Tickets can be purchased on the bus. If you take the Aerobus back to the airport, remember to check that you are taking the bus corresponding to your departing terminal.

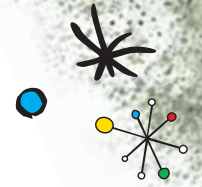
By train: The train service actually operates from T2 terminal at the Renfe (Cercanías/Rodalies) suburban train station. If you come from T1 there is a shuttle bus service departing in accordance with train arrival times and linking the two terminals every 6 or 7 minutes, the journey lasts approximately 10 minutes. Once you are in the airport train station, take the train from the airport and get off at Estació de Sants (Barcelona). From there, take the metro (L3) to Espanya station. The trip takes approximately 25 minutes (airport to Sants station), and trains run every 30 minutes from 6:00a.m. to 11:30p.m. The cost of one way trip is about €2.80.

By taxi: Taxis in Barcelona are black and yellow. They may be ordered by phone, found at authorised taxi stands or flagged down in the street. Please always check that the meter is running. Taxis must usually be paid in cash although some accept credit cards. The cost of a taxi from the airport to the Conference Venue is about €30.00 from T2 and €35.00 from T1.

How to get to the Conference Venue and move around the city

Located in Avenue Maria Cristina, close to Plaça Espanya (Espanya square) and in the hills of Montjuic mountain, Fira de Barcelona venue is extremely well connected with the rest of the city (by metro: Red line (L1) and Green line (L3), in both cases the metro station is ‘Espanya’) and with the airport.

The venue facilities are also located to an easy walking distance from all tourism attractions. The urban planning of the venue area is based on a grid, which makes it really easy to get a sense of direction in the city. Moreover, in Barcelona the weather is pleasant for most of the year and in September temperatures fluctuate around 22 °C (72 F) which makes it great to explore it out walking. As an example walking from Pl. Espanya to Pl. Catalunya (city centre) takes 30 minutes along the same street (Gran Via de les Corts Catalanes street).



Otherwise, Metro is also a good option to move around in the city. The widespread availability of metro stations allows you to cover the entire city using this means of transport. Buses are available from Plaça Espanya, you can buy on board only single tickets. Public transport tickets can be used both for bus, metro or tram, within a period of 1 hour and 15 minutes. A single ticket is €1.45, a 10 trips ticket is €8.25, one day ticket is €6.20, two days ticket is €11.50, three days ticket is €16.50 and a four days ticket is €21.00, you can buy the tickets at the metro stations or at the tourist offices located in the city centre. The Organisation of Congress highly recommend you to use the 10 trips ticket (T-10), being the cheapest option as long as you do not use public transport more than 10 trips.

Alternatively, an authorised taxi stand is located in Espanya Square with public taxis operating at full service 24 hours a day. Aligned with a more sustainable conference we encourage you to use bus and metro to move around while in Barcelona.

Internet Access

Full internet ADSL access will be available in the Business Area on the first floor.

There will also be WIFI access in the majority areas of the Palau de Congressos de Barcelona.

By accessing and using Wireless Internet access you should be aware that there are security, privacy, and confidentiality risks inherent in wireless communications and technology. Neither the Company the supplies this service nor the Conference Venue, the ISEE 2011 Organizers and Mondial & Cititravel Congressos, S.L. are responsible of any costs or damages arising from use of this service.

Left luggage

There will be a space available on Friday, September 16th, located in the Level 1 (ground floor) for luggage. Please note that this space will be unmanned and any luggage or personal effects left there are entirely at their owner's own risk.

Recording Equipment and Cameras

The use of personal recorders and cameras is not permitted during the sessions.

General Secretariat

Mondial

Mondial & Cititravel Congressos, S.L.

Rosselló, 303 Atico 1^a

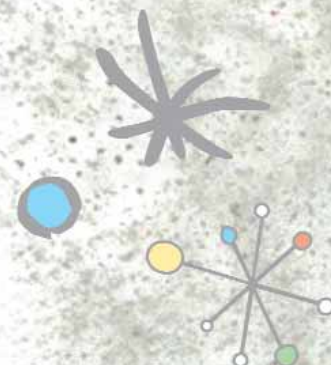
08037 Barcelona – Spain

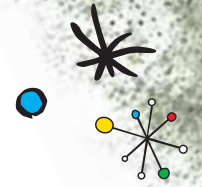
Tel. +34 932 212 955

Fax +34 934 592 059

isee2011@mondial-congress.com

www.mondial-congress.com





Local Information

Barcelona, the capital of Catalonia, is one of the major Mediterranean cities and the second largest city in Spain. There are many reasons which explain why it has attracted visitors from all over the world for many years. There are many 'Barcelonas' to be explored: the old town with Roman walls, the gothic district with palaces and churches from the 16th, 17th and 18th centuries, the well structured Eixample district, the heart of Modernism, and the new Olympic Barcelona.

Banks

Official opening hours of banks in Spain are from 08.30 to 14.00 from Monday to Friday, closed in the afternoon. It is possible to change foreign currency into Euros in the main city hotels.

Climate

Barcelona enjoys a Mediterranean climate with mild, sunny winters, warm summers and relatively low rainfall. The average temperatures in September are 20/23 °C minimum and 28/30 °C maximum. Our sunny summer days are ideal for strolling along the shop lined promenades or sitting out on a restaurant or café terrace.

Credit Cards, Currency and Exchange

All major international credit cards are accepted. Foreign currency and traveler's checks can be exchanged in Spain at banks and foreign exchange offices. Cash-point machines accepting major international credit card and charge cards are available at most banks. The Spanish currency is the Euro.

Electrical Power

A 2-pin round adapter is necessary for electrical appliances. The electric current used is 220 volts/50 hz.

Insurance

The Congress Organisers will not assume any responsibility for accidents, losses or damages, as well as for delays or modifications in the programme, caused by unforeseen circumstances. No claims for indemnification from the organisers shall arise for contractors or participants in case of cancellation, for any reason, of the entire Congress.

Public Transport and Car Rental

Barcelona has a good, comprehensive public transport network, with special ten-trip and one, two or three-day tickets valid on bus, metro and local trains. Taxis are abundant. Free parking is very limited in the city centre and car parks are expensive, so car rental is only recommended to use outside the city.

Shopping

Normal trading hours are Monday to Saturday from 09.00 to 13.00 and 16.30 to 20.00; however, in the city centre of Barcelona and shopping malls, many shops stay open all day from 10.00 to 21.00.

Tipping

Service is generally included in restaurant bills. Tips, however, are given to show appreciation of a good meal or special service.

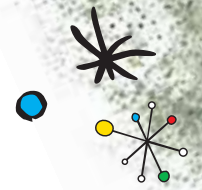
VAT

There is a variable value added tax (VAT) of 8% to 18% applied to most items and services but in most prices you see will include it. When it is not included, this should be clearly indicated.



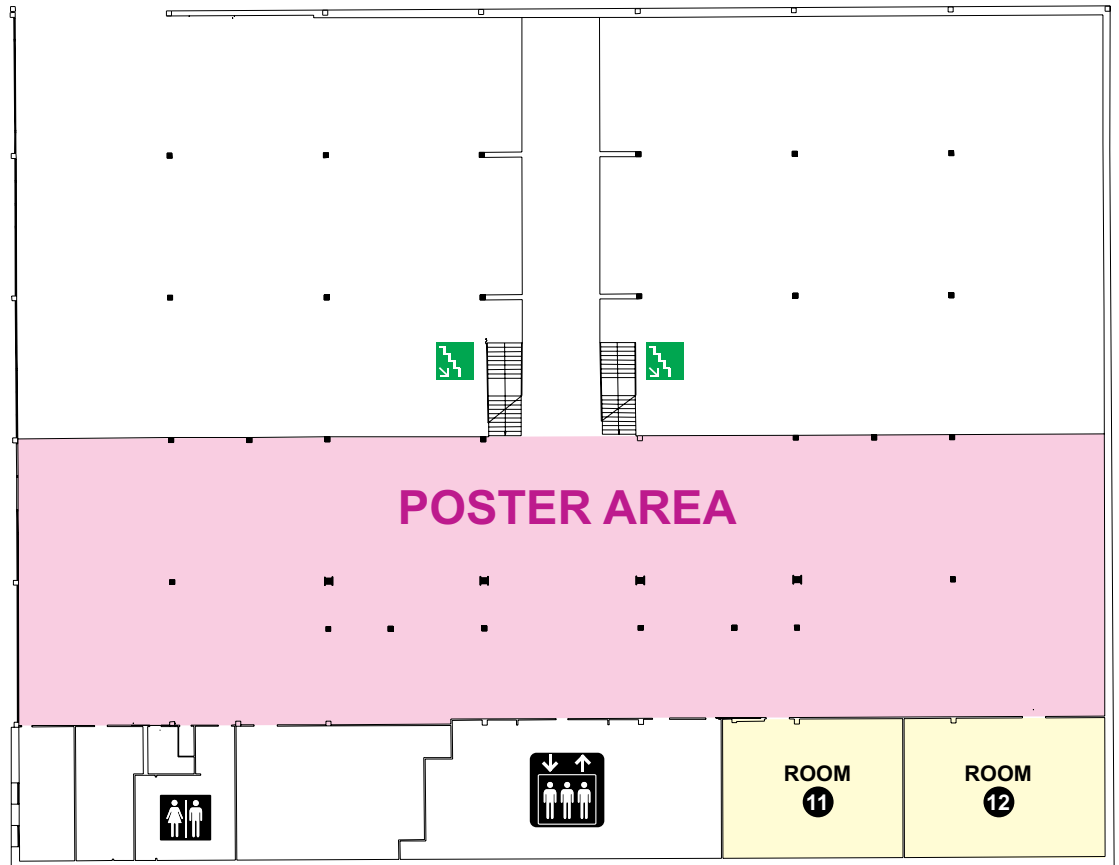
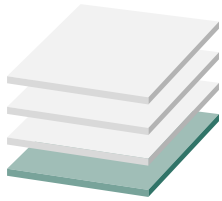
ISEE
2011
Barcelona

International Society for
Environmental Epidemiology
September 13th-16th 2011
Palau de Congressos de Barcelona - Fira de Barcelona

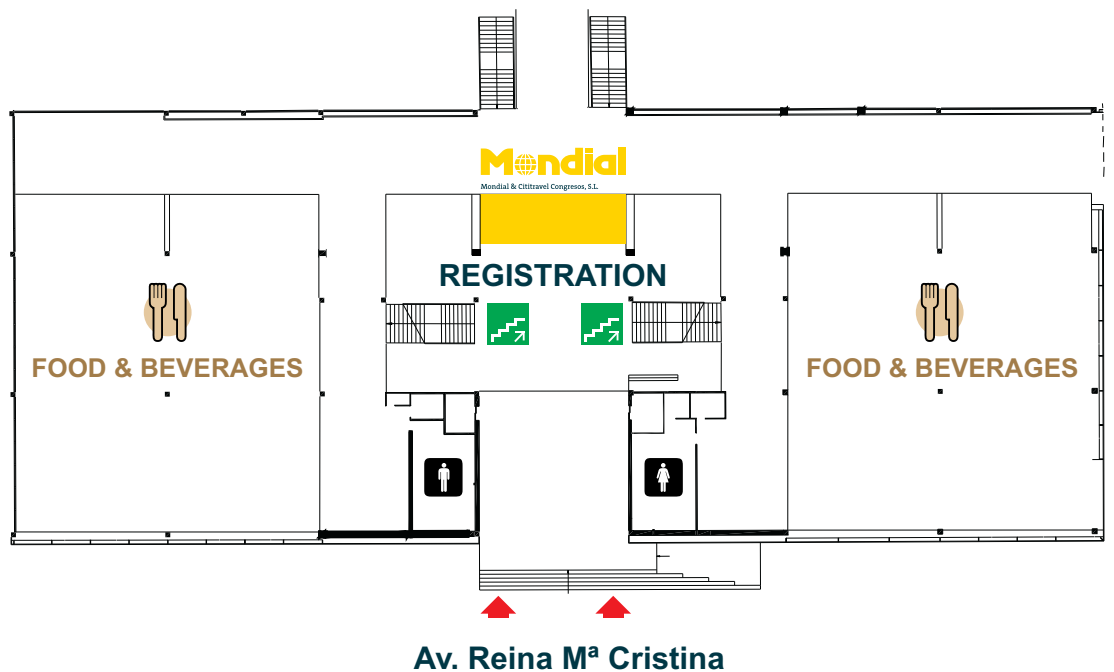
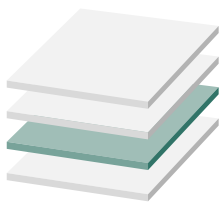


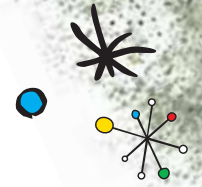
Venue Maps


Fira Barcelona
Montjuïc
Level 0



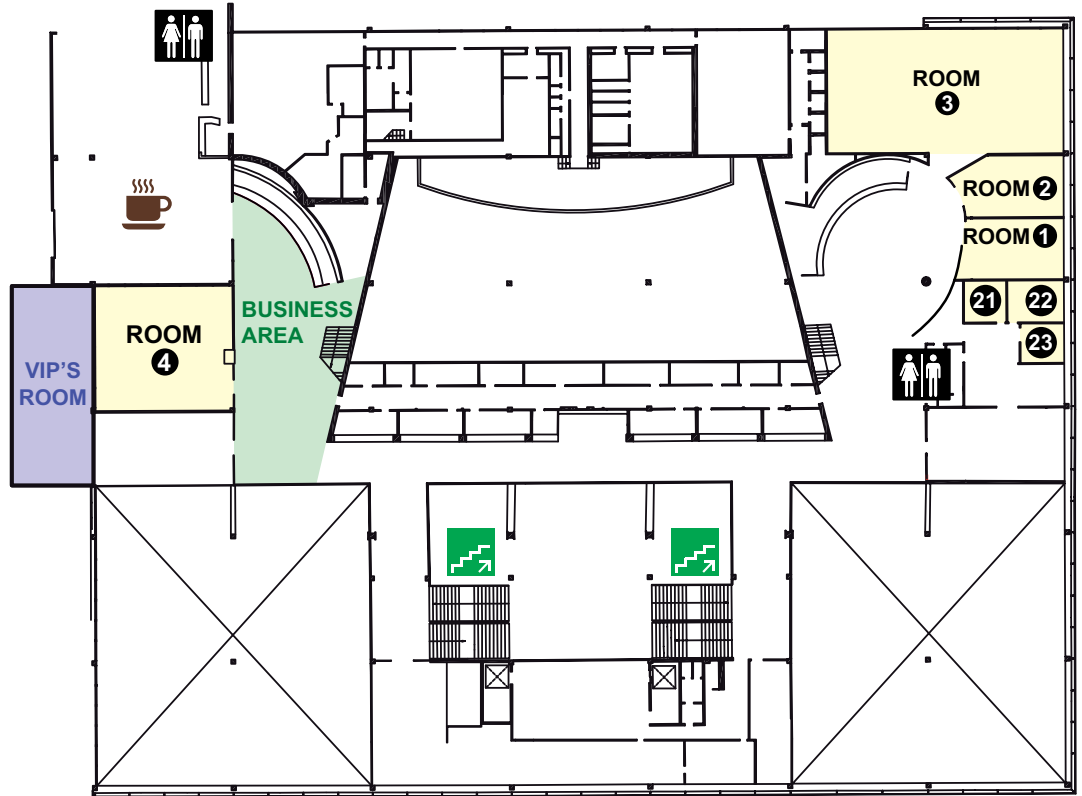
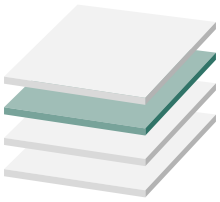

Fira Barcelona
Montjuïc
Level 1





Venue Maps

Fira Barcelona
Montjuïc
Level 2



Fira Barcelona
Montjuïc
Level 3

