

**ISEEyoung 2021**



**4th Early Career Researchers Conference  
on Environmental Epidemiology  
Programme and Proceedings**

**18-19 February, 2021  
Virtual Conference**

**International Society for Environmental Epidemiology,  
Europe Chapter  
Hosted by Swiss TPH, Basel, Switzerland**

**Swiss TPH**



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# Welcome to Basel

[ISEE Europe](#) and the [Swiss Tropical and Public Health Institute \(Swiss TPH\)](#) are pleased to have hosted the virtual 4th Early Career Researchers Conference on Environmental Epidemiology.

ISEE Young targets early career researchers, including students (MSc, PhD), postdocs and assistant professors, to promote scientific communication and discussion in environmental epidemiology, to foster collaborations, and to exchange experiences and new ideas in the field of environmental epidemiology.

The meeting was held online on Thursday 18 and Friday 19 February 2021 and hosted from Basel, Switzerland. The event virtually gathered around 200 researchers, passionate about public health and the environment.

The local organizing committee (LOC) aimed to offer a valuable scientific conference as a great way to network, collaborate and exchange with other scientists. Even though the conference was held online, the LOC ensured that there were plenty of opportunities for young scientists to network and exchange.

## About the ISEE Young 2021 conference

The conference was held in the same 4 Zoom meetings (no webinars), named after Basel landmarks: Münster, Spalentor, Rathaus and Buvette. The zoom links were provided in the app and sent by email. Speakers, chairs and participants all used the same Meeting ID and join links. A team of Technical Chairs (students from Swiss TPH) were present to ensure the meeting ran smoothly.

Plenaries took place in Münster. Due to the large size of these meetings (ca. 200), attendees microphones were disabled but everybody could use the chat window for discussion and Q&A.

Oral Sessions and Speed-talks took place in Münster, Spalentor and Rathaus. These were smaller, more interactive sessions where attendees were invited to use the microphone for the group discussion and video.

Networking activities took place in the Buvette, i.e. coffee house. These sessions were highly interactive, videos and microphones were a must! See section of "Networking activities" for further information.

## About Swiss TPH

[Swiss TPH](#) is associated with the [University of Basel](#), and combines research, services, and education and training at the local, national and international level. Over 850 people from more than 70 nations work at Swiss TPH, researching infectious and non-communicable diseases, environment, society and health as well as health systems and interventions.

The local organizing committee for ISEE Young 2021 is largely from the research unit [Environmental Exposures and Health](#) (EEH) within the [Department of Epidemiology and Public Health](#) (EPH). Our research focuses on health in relation to the many environmental exposures: including air pollution, noise, electromagnetic fields, heatwaves, green space and airborne pollen.

ISEE young 2021's conference virtual rooms were scattered throughout the city. Participants were encouraged to “jump on a tram” to discover Basel and click on the links below to join our sessions conference rooms at "Münster", "Rathaus" and "Spalentor". The buvette located next to the Rhine river was also open throughout the conference. This is where participants could to take a break, meet a friend or meet new people.

**Spalentor**

**Buvette**

**Rathaus**

**Münster**

Ariesheim Dorf  
 10 Stollenrain  
 Dornach Bahnhof

# Introducing the organisers

## Local Organising Committee (LOC)

### Co-chairs

- Danielle Vienneau, Swiss TPH
- Marloes Eeftens, Swiss TPH

### Members

- Apolline Saucy, Swiss TPH
- Alexandra Burgler, Swiss TPH
- Ana M. Vicedo-Cabrera, University of Bern

### Technical support

- Sarah Thiele, Swiss TPH
- Student volunteers from Swiss TPH:
  - Technical chairs: Alexandra Bürgler, Alonso Bussalleu, Apolline Saucy, Brady Hooley, Bryan Nyawanda, Fabienne Fischer, Louise Tangermann, Lydia Hottenbacher, Nicolas Loizeau, Sophie Baruth and Tafadzwa Dhokotera
  - Conference recordings: Seçkin Boz

## Scientific Organising Committee (SOC)

### Co-chairs

- Bénédicte Jacquemin, INSERM  
Massimo Stafoggia, Dep. Epidemiology Lazio Region

### Members

- Heresh Amini, Københavns Universitet
- Zorana Andersen, University of Copenhagen
- Artur Badyda, Warsaw University of Technology
- Annabelle Bedard, INSERM
- Hanna Boogaard, Health Effects Institute
- Maribel Casas, ISGlobal
- Payam Dadvand, ISGlobal
- Andrea Dalecka, University of Ostrava
- Evi Dons, Hasselt University
- Angel Dzhambov, Medical University of Plovdiv
- Daniela Fecht, Imperial College London
- Ulrike Gehring, IRAS Utrecht University
- Olena Gruziova, Karolinska Institutet
- Barbara Hoffmann, University of Dusseldorf
- Sara Kress, IUF-Leibniz Institute for Environmental Medicine
- Petter Ljungman, Karolinska Institutet
- María José López Espinosa, CSISP Valencia
- Malgorzata Joanna Lubczynska, ISGLOBAL
- Ebba Malmqvist, Lund University
- Iana Markevych, Uniwersytet Jagielloński

- Anna Oudin, Lund University
- Matteo Redaelli, ANSES
- Aina Roca Barceló, Imperial College London
- Evi Samoli, Athens University
- Margaux Sanchez, ANSES
- Tamara Schikowski, IUF-Leibniz Institute for Environmental Medicine
- Alexandra Schneider, Helmholtz Center Munich
- Mireille Toledano, Imperial College London
- Cristina Vilanueva, ISGlobal
- Karen Vrijens, Hasselt University
- Charline Warembourg, ISGlobal

## Keynote speakers

### Maria Foraster (PhD) - Barcelona Institute for Global Health (Barcelona, Spain)

Maria Foraster is Assistant Research Professor at the Barcelona Institute for Global Health and Associate Professor of Public Health at Universitat Ramon Llull (Barcelona, Spain). She holds a PhD in Biomedicine (2013), Master in Public Health and Master in Pharmacy. Previously, she worked at the Swiss Tropical and Public Health Institute (2014-2017, Basel, Switzerland). She studies how the urban environment affects health over the life-span, with a special focus on transportation noise and correlated exposures (e.g. air pollution, green spaces) in relationship to cardiometabolic health in adults, early-life development, and mental health. She is interested in advancing the evidence by improving exposure characterization, enriching and studying the exposome, and ascertaining biological pathways. Regarding exposure assessment, she has pioneered approaches to disentangle the health effects of transportation noise and air pollution. She is also involved in exposome research as co-WP leader of the external exposome and ISGlobal principal investigator in the Horizon 2020 Equal-life exposome project on early-life environmental quality and life-course mental health. Among others, she has been scientific advisor of the WHO Environmental Noise Guidelines (2018).



#### ***"Overview on health effects of transportation noise"***

Road traffic noise is estimated to be the second most important environmental health hazard in Europe, just after air pollution. In addition, there are other common transportation noise sources such as aircraft and railway noise that have been related to similar health effects. However, awareness on the topic is rather limited and more and better research is still needed to understand the multiple health effects of noise and to promote efficient policies for health and sustainability. This presentation summarized the evidence on the health effects of transportation noise and address the main challenges.

### Melissa Penny (Prof) - Swiss Tropical and Public Health Institute (Basel, Switzerland)

Melissa Penny is an Assistant Professor at Swiss Tropical and Public Health Institute, University of Basel. Currently head of the Disease Modelling unit at Swiss TPH she has more than 14 years' experience in developing mathematical and computational models to provide quantitative evidence to support infectious disease control and elimination decisions.

Her most recent research focuses on analysing data and developing mathematical models and algorithms to understand pathogen, host and intervention dynamics, with the goal to inform decisions during product development through to implementation and policy recommendations. This work includes new approaches with mechanistic models to inform quantitative target product profiles for novel malaria interventions. She is a member of WHO technical working groups and Guideline Development Groups, and along with other modelling groups supports modelling and economic-based evidence during malaria vaccine Pilot studies.



#### ***"Mathematical modelling to address contemporary issues in infectious diseases and global health"***

With reflections on the current COVID-19 pandemic, the role of mathematical modelling to address questions in global health were discussed. In particular, the presentation discussed the benefits and limitations of models to support decision making to combat infectious diseases.

## Virissa Lenters (PhD) - Julius Center for Health Sciences and Primary Care (Utrecht, Netherlands)

Virissa Lenters, PhD, is an Assistant Professor in environmental epidemiology and exposome science at the University Medical Center Utrecht in the Netherlands. She currently leads research on how the urban and chemical exposome affect child development and disease susceptibility, including the independent and mediating effects of the microbiome. She earned her BScH in Life Sciences at Queen's University, Canada; her MSc and PhD in Epidemiology at Utrecht University, the Netherlands; and carried out postdoctoral research at the Norwegian Institute of Public Health and UC San Diego, USA. In addition to etiological research, she has focused on advancing approaches to evaluate the risks of chemical mixtures. She has also investigated the health effects of environmental microbial exposures, microplastics, and air pollution within several EU and nationally funded projects, and has contributed to (inter)national human health risk assessments.



### ***"Urbanisation and our microbiome"***

The gut microbiome is highly individual and we are discovering more about the external (non-dietary) factors that shape it. New results from the large Dutch Microbiome Project provide more insight into how host and environmental factors, including aspects of the indoor and built environment, are associated with gut microbiota composition and function. Characterizing exposome–microbiome and microbiome–mediated disease associations adds to our understanding of the consequences of urbanisation on health, and of potential mitigation strategies.

## Nina Iszatt (PhD) - Norwegian Institute of Public Health (Oslo, Norway)

Nina Iszatt is an environmental epidemiologist at the Norwegian Institute of Public Health. Her research focuses on the role of early life exposure to environmental chemicals in the development of adverse reproductive and child health outcomes, and the gut microbiome as both independent predictor and mediator. She is PI of the NON-PROTECTED project on perfluorinated toxicants, the gut microbiome, and immune response in children. She has an interdisciplinary background, first receiving a BSc in Psychology from Goldsmiths' College, University of London. From 1999-2004, she was based in the Philippines as a political and social scientist, working across a range of international development issues including participatory governance and inequitable access to land. Witnessing first-hand the complex and intersecting problems of pesticide-exposed communities, she returned to study at Imperial College London where she earned her MSc in Environmental Technology and then PhD in Environmental and Reproductive Epidemiology in 2011.



### ***"The microbiome: where environmental pollutants meet you"***

Our gut microbiome is composed of trillions of bacteria, viruses, and fungi, a complex community of microorganisms residing in the digestive tract. This internal ecology has co-evolved with humans and converts environmental signals into signalling metabolites to communicate with the host – you. Research suggests that the gut microbiome has a critical role in developmental programming, and early disruption of microbial succession has long-term health consequences. Environmental pollutants are a present-day phenomenon and our microbiomes are bombarded by these new and sometimes toxic stimuli. In the first birth cohort of its kind, the Norwegian Microbiota Cohort, environmental toxicants including persistent organic pollutants and arsenic were measured in breastmilk and associated with differences in composition and function infant gut microbiome. Such findings provide evidence for the gut microbiome in mediating the effects of toxic exposure, but also has exciting potential for exposure reduction.

## Special plenary - Panel discussion

### "Learning from COVID-19 pandemic: opportunities and challenges for young environmental epidemiologists"

This was an inspiring special plenary session with renowned scientists Andy Haines (LSHTM, UK), Barbara Hoffmann (University of Düsseldorf) and Manolis Kogevinas (ISGlobal, Spain) where they discussed the impact of the Covid-19 pandemic on current environmental epidemiology research. They chatted about what they consider to be the lessons learnt from this crisis in terms of changing priorities, plans and ways of communicating.

**Chairs:** Temitope Adebayo and Masa Davidovic (Swiss TPH, Switzerland)



### Speakers:

#### Prof. Andy Haines – London School of Hygiene & Tropical Medicine (UK)

Sir Andy Haines is Professor of Environmental Change and Public Health with a joint appointment in the Dept of Public Health, Environments and Society and in the Dept of Population Health. He was previously Director (originally Dean) of LSHTM for nearly 10 years up to October 2010, having previously been Professor of Primary Health Care at UCL between 1987-2000.

He worked part-time as a general practitioner in North London for many years. Between 1993-6 he was on secondment as Director of Research & Development at the NHS Executive, North Thames and was consultant epidemiologist at the MRC Epidemiology and Medical Care Unit between 1980-7. He has also worked internationally in Nepal, Jamaica, Canada and the USA.

### **Prof. Barbara Hoffmann – University of Düsseldorf (Germany)**

Professor Barbara Hoffmann graduated from the Medical School of Aachen, Germany, in 1993, where she also received a doctoral degree in Lung Physiology in 1996. She worked in Pulmonary and Internal Medicine before she received an MPH from the School of Public Health in Bielefeld, Germany.

From 2001 to 2011, she worked at the Institute of Medical Informatics, Biometry and Epidemiology, Medical School of the University of Duisburg-Essen, Germany, where she founded and developed the Unit of Environmental Epidemiology and Clinical Epidemiology. Since 2011 she is professor of environmental epidemiology at the University of Düsseldorf, Germany.

She is PI of several large-scale cohort studies and is involved in many national and international projects. Her research focuses on the investigation of acute and chronic cardiopulmonary health effects of air pollution.

### **Prof. Manolis Kogevinas – Barcelona Institute for Global Health (Barcelona, Spain)**

Professor Manolis Kogevinas is the Severo-Ochoa Scientific Director at the Barcelona Institute for Global Health (ISGlobal). He graduated at the Medical School of Athens, Greece and has PhD degrees from the University of Athens (1985) and the University of London (1989). He worked at IARC/WHO, Lyon, and was co-Director of the Centre for Research in Environmental Epidemiology (CREAL) in Barcelona, Spain. His research focuses on the evaluation of environmental and genetic factors in relation to cancer, respiratory diseases and child health.

He served in several WHO and other expert committees. He has been Director of the European Educational Program in Epidemiology (EEPE, Florence), and was President of the International Society for Environmental Epidemiology (ISEE). He is committed to public health and is active in Europe and globally in the promotion of research in environmental epidemiology and translation of research findings into policy.

# Topics

## Topics of submitted abstracts

- Aging
- Air pollution
- Allergies
- Biomass burning
- Cancer
- Cardio-metabolic outcomes
- Covid-19
- Children's health
- Endocrine disorders/endocrine system
- Environmental contaminants & pesticides
- Environmental disasters
- Epigenetics&-omics
- Environmental equity
- Exposome, biomarkers
- Exposure assessment
- Food and nutrition
- Gene environment interactions
- Green space, blue space, built environment
- Health impact assessment/risk assessment
- Indoor environment
- Live-stock exposures and health
- Methodological advances
- Microbiome
- Mobility, physical activity and health
- Neurological outcomes: neurodevelopment, neurobehavioral effects, neurodegenerative outcomes
- Noise
- Occupational exposures and health
- Radiation: EMF, mobile phones, UV
- Reproductive and perinatal outcomes
- Respiratory outcomes
- Risk communication
- Spatial epidemiology and GIS
- Susceptible/vulnerable subgroups
- Toxicology
- Water
- Weather and climate

## Presentation Formats

Two presentation formats were possible: classic oral conference presentations and speed talks. We decided to replace the poster sessions with speed talks, giving everyone the opportunity to present to an audience. All conference contributions were promoted by a "Tweezer", shown throughout the conference to help participants navigate the programme, and provide a novel way to get a swift overview of the latest science!

### The "Tweezer"

The "Tweezer" is our very own creation – effectively a cross-breed between a tweet and a teaser. It is short, snappy and captures the essence of a research presentation and why it matters. The tweezer criteria were a maximum 280-character teaser message with one picture. Rather than explaining all the complexity of an analysis or project, the tweezer was an invite to the other attendees to seek presenters in person and to come and see their talk.

# Dissemination

## Publication of submitted abstracts

Abstract have been published in Environmental Epidemiology journal available here:

[ISEE Young Virtual Conference, Basel, Switzerland, 18-19 February, 2021](#)  
[Environmental Epidemiology. 5\(2\):e151, April 2021.](#)

## Conference recordings

The keynotes and special plenary recordings are available as a set of three videos on the [ISEE Global education YouTube channel](#).

## Networking activities

Networking activities took place in the Buvette. Located alongside the Rhine river, this was where attendees could also meet each other and have a break. Outside the official activities, the Buvette was open for scheduled and impromptu meet-ups and networking.

### Rooms available for networking

- Parallel rooms Münster, Spalendor and Rathaus: this was where the plenaries, oral sessions and speed talks took place. These rooms in the Buvette could also be used during the breaks or when the session was finished to continue the discussion.
- Individual meeting rooms: named after the most iconic places in the Buvette of the Rhine river, these rooms were where attendees could have individual meetings. They could be booked via the conference app.
- Topical rooms: this was where attendees could meet other people and chat about specific topics (e.g. air pollution and noise, climate change) or have a look at the tweesers.

A Barista was present in the Buvette (see below!) during the scheduled coffee and lunch breaks to answer questions.



Individual meeting rooms:  
this is where you can have  
scheduled and individual  
meetings (book the rooms  
through the app when request-  
ing a meeting with someone!



Flora



Kaserne



Oetlinger



St Louis

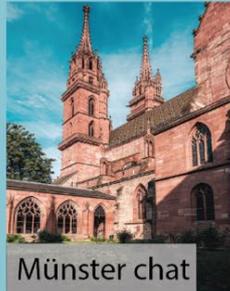


Bollwerk

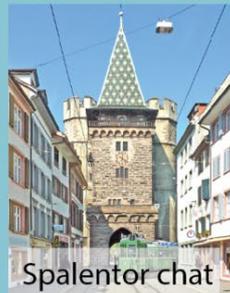


Dreirosen

Parallel rooms:  
Come here if you want to continue  
discussions started during the  
parallel sessions



Münster chat



Spalentor chat



Rathaus chat

Topical rooms:  
If you just want to meet new people  
or have a break, come here and you  
will find people who share your  
research interests.



Air pollution & Noise



Climate change &  
other environmental  
exposures



Maternal and child environ-  
ment & healthy ageing &  
health equity



Exposome & Natural  
and built environment



Exposure science &  
statistical methods



SNRN



Tweezer room



## Specific networking activities

### Early-morning yoga and pilates

Professional teachers Sarah and Marcella helped attendees to warm up for the conference with a yoga class on Thursday and Pilates on Friday morning from 7:45-8:45.

- Yoga with Sarah: <https://www.sarah.yoga/>
- Pilates with Marcella: <https://www.pilates-myofascialtraining.ch/>

### Pub Quiz

Conducted the evening prior to the conference, this fun and interactive session was a great way to meet new people through random assignment to teams.

**Time to meet your team**

1. Agree on Team Name & Team Filter
2. Assign 1 team spokesperson to:
  - Submit team details via chat (team name and member names)
  - Fill in Google form (remember to add the team name every time)
  - Share screen in your breakout room so all team members can view quiz questions

**You have 10 minutes! Mind the clock...**

**SPORTS & ART ROUND**

**SCIENCE ROUND**

**GENERAL KNOWLEDGE ROUND**

**GEOGRAPHY ROUND**

**FINAL PUZZLES**

Participant names visible in the video grid include: am n, Apolline Saucy, Danielle Vien..., INSEYoung 0081, Charline Ware..., Tamitope Adebayo, Sarah Thiele, Aina Roca, hasan sohai, Nicole Krziszcz..., Daniëlle Vien..., Charline Ware..., INSEYoung 0081, Maria Luisa Medl..., Ashlyn Areal, Ione Avila-Pal..., Nikos Nikolaou, Florence Gigh..., Evan de Schrijver, Emeline Leagy, Ralf Rittner, Anne-Claire Binter, Nicolas Loizeau, Behzad Valipour, Kayan Clarke, Alexandra Bür..., Marloes Eefte...

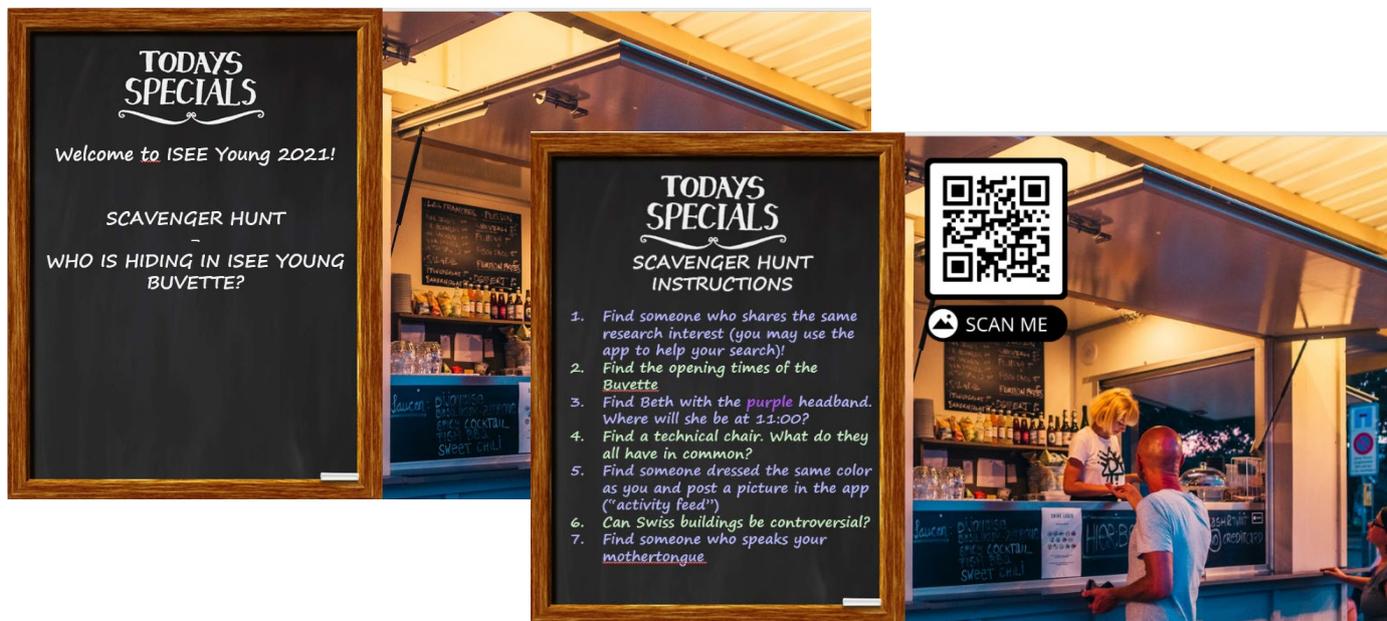
## "Peer-to-peer mentoring" session

In this pre-conference peer mentoring session, attendees joined a reflection on career paths with ISEE Young keynote speakers and session chairs, as well as some invited guests from beyond academia. After a "fireside chat" with keynote speaker Virissa Lenters and ISEE Young chairs Marloes Eeftens, Tamara Schikowski and Payam Dadvand, networking in groups of 3 around professional development took place. Space was limited and restricted to ISEE Young registrants and invited guests only.

We used the Troika consulting approach, a simple yet powerful peer-to-peer mentoring method to gain insight and hear how others are solving problems quickly. In 10-minute round robin style "consultations", individuals ask for advice and immediately get input from two colleagues. This structure helps to tap into everyday solutions, reveal patterns and refine proposals. Zoom is perfectly suited to this approach.

## Welcome event - Scavenger hunt

This first in-conference networking event was designed to help everyone become familiar with our zoom conference platform and concept, meet the technical chairs and LOC, and generally explore the Buvette.



## "Meet the Editors and the President" session

Attendees were invited to pop into the breakout rooms and chat with the editors from the list of journals below or the president of the ISEE.

- Bert Brunekreef - Environment International
- Hanna Boogard - Environment International
- Manolis Kogevinas - Environmental Health Perspectives
- Payam Dadvand - Environmental Pollution
- Hans Kromhout - Occupational and Environmental Medicine
- Mark Nieuwenhuijsen - ISEE President

# Award winners from ISEE Young 2021

First place prizes: Congratulations to those who received ISEE 2021 virtual conference registration, sponsored by ISEE!

Runner up prizes: Special treats from Basel

## Best Abstract

**1<sup>st</sup> place - Michiel van den Dries**, ISGlobal (Spain) "Prenatal exposure to non-persistent chemical mixtures and offspring IQ and emotional and behavioral symptoms"

**Runners up - Alicia Abellan**, ISGlobal (Spain) "Early-life exposure to urban environment and lung function and asthma in school-age children. The Generation R Study"

**Runners up - Matteo Scortichini**, DEP Lazio (Italy) "A country-wide small-area analysis on temperature-mortality risks and geographical variation in vulnerability"

## Best Speed-talk

**1st place - Alexandra Bürgler**, Swiss TPH (Switzerland) "Beyond Seasonal Suffering: Effects of Pollen on Cardiorespiratory Health, Cognitive Performance and Allergic Symptoms"

**Runners up - Carly Goodman**, York University (Canada) "Sex difference of early life exposure to developmental neurotoxins on IQ: A systematic review"

## Best Tweezer

**1st place - Léa Maitre**, ISGlobal (Spain)

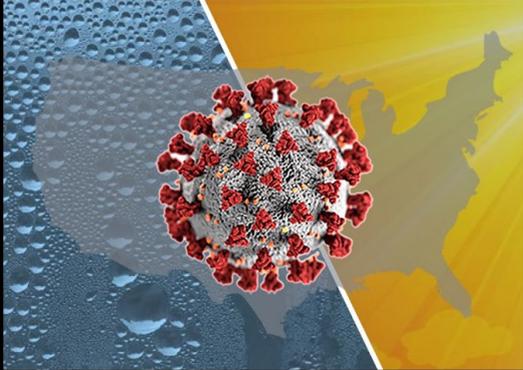


The gut microbiome holds key physiological functions including immunity and metabolism. Early life events such as mercury or tobacco exposures may alter its diversity, and have implications for child and lifelong health.

Léa Maitre

*Early life and Perinatal health  
Spalantor OS3  
Friday 11:15 - 12:30*

**Runners up - Yiqun Ma, Yale School of Public Health (USA) & Emeline Lequy, French NIHMR (France)**



Warm and humid weather could moderately reduce the transmission of the COVID-19 in the U.S, with humidity playing a larger role than air temperature.

Yiqun Ma

*Air pollution: cardiometabolic health & Covid-19*  
*Rathaus ST1*  
*Thursday 15:15 - 16:30*



Metals may affect human health yet assessing individual exposure to airborne metals remains difficult. Mosses -small plants that grow (almost) everywhere- offer a welcome help as they absorb airborne metals. We can use them to derive fine-gridded exposure surfaces in cities.

Emeline Lequy

*Methods in exposure assessment*  
*Spalentr OS4*  
*Friday 13:15 – 14:45*

Pictures by C. Meyer and S. Leblond ©

## Most Engaged App User

**Yara Mileth Carrejo Gironza, IRSET (France) and Meltem Kutlar Joss, Swiss TPH (Switzerland)**

# ISEE Young 2021 Programme Overview

	Münster	Spalantor	Rathaus	Buvette
Wednesday 17 February 2021				
11:00-12:15				Peer Mentoring*
18:00-19:30				Pub quiz
Thursday 18 February 2021				
7:45-8:45				Morning Yoga
9:00-10:15	Opening Plenary			
10:15-10:45				Welcome event
10:45-11:00				Coffee break
11:00-12:30	M.OS1: Ambient temperature & health	S.OS1: Air pollution, noise & mental health	R.OS1: Indoor & occupational exposures	
12:30-13:15				Lunch break
13:15-14:45	M.OS2: Health Impact Assessment & air quality policy	S.OS2: Urban environment and green space	R.OS2: Short term health effects	
14:45-15:15				Coffee break
15:15-16:30	M.ST1: Respiratory health, allergies & infectious diseases	S.ST1: Environment and the brain	R.ST1: Air pollution: cardiometabolic health & Covid-19	
16:30-17:45	Special Plenary			
Friday 19 February 2021				
7:45-8:45				Morning Pilates
9:00-10:15	M.ST2: Early life and child health	S.ST2: Air pollution: mortality, morbidity & methods	R.ST2: Green space, temperature, cancer	
10:15-10:30				Coffee break
10:30-11:15				Meet the Editors
11:15-12:30	M.OS3: Environmental contaminants & health	S.OS3: Early life & perinatal health	R.OS3: Green space & mental health	
12:30-13:15				Lunch break
13:15-14:45	M.OS4: Long term effects of air pollution	S.OS4: Methods in exposure assessment	R.OS4: Epigenetics	
14:45-15:00				Coffee break
15:00-17:15	Closing Plenary			

Timezone: Central European Time (CET)

\*separate link: [bit.ly/iseementoring](http://bit.ly/iseementoring)

Check your timezone here: <https://www.timeanddate.com/worldclock/converter.html?iso=20210218T080000&p1=1229>

# Detailed Programme

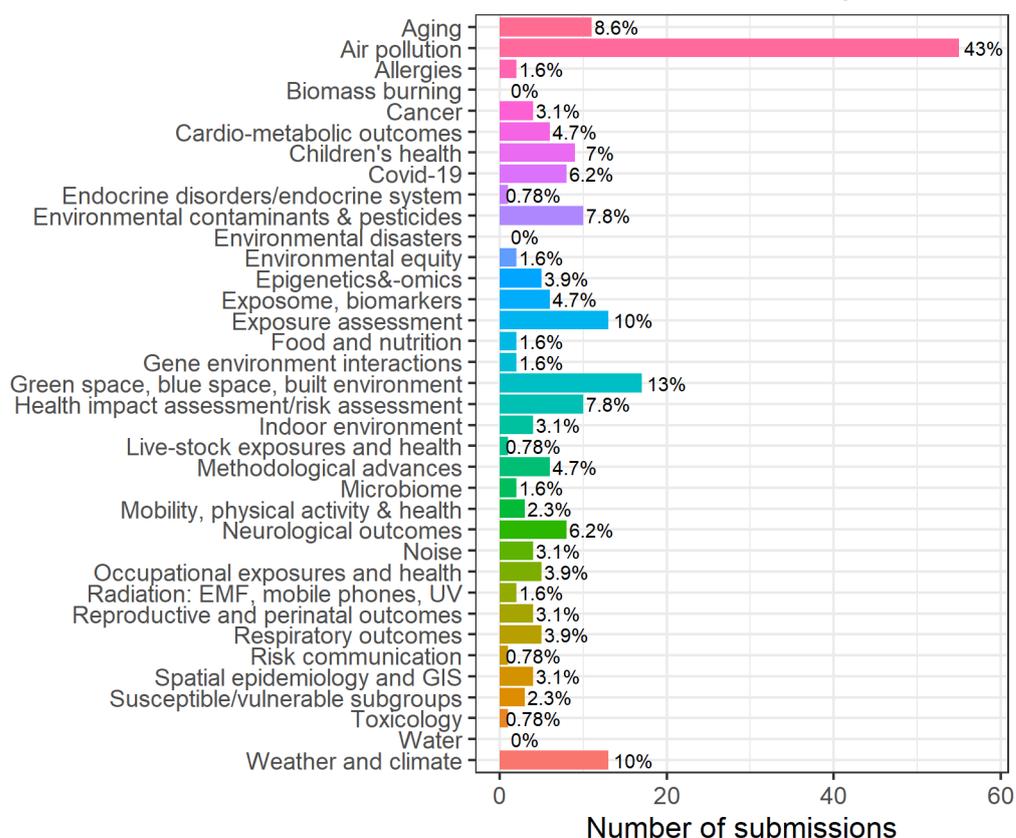
Münster		Spalantor		Rathaus		Buvette	
Wednesday 17 February 2021							
11:00-12:15							Peer Mentoring*
18:00-19:30							Online Pubquiz!
Thursday 18 February 2021							
7:45-8:45							Morning yoga class with Sarah
9:00-10:15	<b>Opening Plenary</b> Chairs LOC - Danielle Vienneau & Marloes Eeftens *Welcome Danielle Vienneau *Keynote - Maria Foraster (ISGlobal, Barcelona) *Keynote - Melissa Penny (Swiss TPH, Basel)						
10:15-10:45							Welcome to ISEE Young!
10:45-11:00	Coffee break at the ISEE Young Buvette						
11:00-12:30	<b>M.OS1: Ambient temperature &amp; health - Chair: Ana M. Vicedo-Cabrera / Co-Chair: Evan de Schrijver</b> Comparison of heat-related excess mortality during the four warmest summers in Switzerland - Martina Ragettli Short-term effects of air temperature on mortality in seven cities in Norway. A time series analysis. - Liliana Vázquez Fernández A country-wide small-area analysis on temperature-mortality risks and geographical variation in vulnerability - Matteo Scortichini The role of population ageing in heat- and cold-related mortality trends in Switzerland - Evan De Schirjver Ambient temperature and cognitive function in elderly women - Qi Zhao Short-term effects of cold spells on plasma viscosity - Wenli Ni	<b>S.OS1: Air pollution, noise &amp; mental health - Chair: Bénédicte Jacquemin / Co-Chair: Jun Yang</b> Effects of Transportation Noise on Adolescents Behavior - Louise Tangermann Effect modifiers of the association between black carbon and cognitive performance in a French population cohort - Jun Yang The effect of air pollution mixtures and socioeconomic status on cognitive decline in Metro Atlanta, USA - Grace Christensen Early-life urban exposure and cognitive and psychomotor function in children in 4 European birth cohorts - Anne-Claire Binter Air pollution and the mental health status of the Belgium population - Pauline Hautekiet Air pollution and traffic noise exposure and functional brain connectivity in preadolescents aged 9 to 12 years - Laura Pérez-Crespo	<b>R.OS1: Indoor &amp; occupational exposures - Chair: Michele Turner / Co-Chair: Allison Ciesla</b> Dangerous jobs: pesticide exposure among migrant farmworkers - Allison Ciesla Validation of a job-exposure matrix using personal measurements of occupational exposure to radiofrequency fields. - Maxime Turuban Association between occupational exposure to formaldehyde and cognitive impairment: the French CONSTANCES study - Noemie Letellier Investigation of indoor air quality and identification of influential factors at an university campus in southern India - Akila Muthalagu				
12:30-13:15	Lunch at the ISEE Young Buvette						
13:15-14:45	<b>M.OS2: Health Impact Assessment &amp; air quality policy - Chair: Hanna Boogaard / Co-chair: Sasha Khomenko</b> The impact of COVID-19 government measures on air quality in European cities - Jiawei Zhang Premature mortality due to air pollution in European cities; an Urban Burden of Disease Assessment. - Sasha Khomenko Health Impacts from Ambient Particle Exposure in Southern Sweden - Ralf Rittner Avoided health effects due to the implementation of Air Quality Plan in Malopolska region Poland - Lukasz Adamkiewicz The Impact of Urban Environmental Exposures on Health: An Assessment of the Mortality Burden in Sao Paulo, Brazil - Evelise Pereira-Barboza Communicating effects of ambient air pollution - Meltem Kutlar Joss	<b>S.OS2: Urban environment &amp; green space - Chair: Zorana Jovanovic Andersen / Co-chair: Ione Avila-Palencia</b> Indoor dust microbiota and residential surrounding green space - Yinthe Dockx Associations of urban environment features with hypertension and blood pressure across 230 Latin American cities - Ione Avila-Palencia The impact of transport and urban planning practices on health in Madrid and Barcelona and its distribution by SES - Tamara lungman Contribution of park visits to daily physical activity levels: Evidence using smartphone tracking data - Guillem Vich	<b>R.OS2: Short term health effects - Chair: Petter Ljungman / Co-chair: Masna Rai</b> Acute mortality and aircraft noise: results from a case-crossover study - Apolline Saucy Short-term effects of temperature on cardiorespiratory mortality and its modification by air pollution in German cities - Masna Rai Short-term exposure to nitrogen dioxide and emergency admissions in England: A time-stratified case-crossover study - Weiyi Wang Shape-constrained splines in epidemiological applications - Pierre Masselot Short-term effects of particulate matter concentrations and air temperature on Pulmonary Embolism in Italy - Chiara Di Biasi Diesel-powered vehicles, ultra-fine particles, traffic policies and mortality: a time series analysis - Arnt Diener				
14:45-15:15	Coffee break at the ISEE Young Buvette						
	<b>M.ST1: Respiratory health, allergies &amp; infectious diseases - Chair: Marloes Eeftens / Co-chair: Apolline Saucy</b> Air pollution and current rhinitis in the Constances cohort - Marine Savouré Beyond Seasonal Suffering: Effects of Pollen on Cardiorespiratory Health, Cognitive Performance and Allergic Symptoms - Alexandra Bürgler	<b>S.ST1: Environment &amp; the brain - Chair: Youn Hee Lim / Co-chair: Mohammadjavad ZareSakhvidi</b> Air pollution, noise pollution, and cognition across the lifespan: a systematic review and meta-analysis - Rhiannon Thompson Exposure to ambient air pollution and cognitive decline: results of the prospective Three-City study - Jeanne Duchesne	<b>R.ST1: Air pollution: cardiometabolic health &amp; Covid-19 - Chair: Kai Chen / Co-chair: Allison Patton</b> Short-term exposure to ultrafine particles and heart rate variability: A systematic review and meta-analysis - Siqi Zhang Short-Term Effects of Ambient Air Temperature on Blood Pressure, Considering Effect Modification by Air Pollution - Margarethe Woeckel				

15:15-16:30	<p>Antimicrobial resistance in rural communities in Latin America: a scoping review - Maria Luisa Medina-Pizzali</p> <p>Inter/intra-individual variability of oxidative stress biomarkers in exhaled breath condensate in an adult population - Maud Hemmendinger</p> <p>8-isoprostane concentration in exhaled breath condensate (EBC) of healthy non-exposed adults - Yara Shoman</p> <p>Ambient air pollution and asthma incidence in the European Community Respiratory Health Survey (ECRHS) III - Pratik Pokharel</p> <p>Polygenic susceptibility in air pollution exposure associated respiratory health: the GINplus/ LISA birth cohorts - Sara Kress</p> <p>The interactive effect of air pollution and temperature on respiratory health: a systematic review and meta-analysis. - Ashtyn Areal</p>	<p>Air pollution exposure and cognitive performance in middle age: findings from the CONSTANCES cohort - Mohammadjavad ZareSakhvidi</p> <p>Environmental factors associated with Parkinson's Disease, a population-based longitudinal study - Shaked Yarza</p> <p>Sex-based differences in the associations between long-term air pollution, noise, and brain structure in the Default Mod - Sarah Lucht</p> <p>Neighborhood-level factors as confounders and effect modifiers for the association between PM2.5 and cognitive function - Zhenjiang Li</p> <p>Short-term effects of ambient temperature and air pollution on mental health hospitalizations in Bern, Switzerland - Marvin Bundo</p> <p>Nutrition, gUT microbiota, and BBrain AgINg (the NutBrain Study): rational, study design, and preliminary data. - Silvia Conti</p> <p>Traffic Noise Exposure and Emotional, Aggressive, and Attention Deficit and Hyperactivity Disorder Symptoms in Children - Laura Pérez-Crespo</p> <p>Can nature help children to be kind? Evidence from Australia - I Gusti Ngurah Edi Putra</p>	<p>Can Environmental and Socioeconomic Factors explain the regional differences in Type 1 Diabetes Prevalence in Children? - Mahnaz Badpa</p> <p>Health effects of ambient air pollution exposure during moderate-to-vigorous physical activity: a systematic review - Andy Hung</p> <p>Characterizing the Effects of Air Pollution Exposure and Diabetes Prevalence on COVID19 Case-fatality Rates - Naomi Riches</p> <p>Exploring the intriguing correlation between Covid-19 and Pollution - Gelsomina Pillo</p> <p>Factors affecting severity of COVID-19 infection among Health Care Providers of a tertiary care center at Rohtak, India - Arup Saha</p> <p>Role of meteorological factors in the transmission of COVID-19 in the United States - Yiqun Ma</p> <p>Does lockdown save lives in the short term? The effect of government responses to the COVID-19 outbreak on mortality - Sebastian Mader</p> <p>A national survey to evaluate the role of COVID-19-related PPE on heat stress in healthcare workers: WORKCLIMATE PROJECT - Alessandro Messeri</p> <p>Impact of housing on changes in youth's mental health in a pandemic - Jonathan Groot</p>	
16:30-17:45	<p><b>Plenary 2: Panel discussion - Learning from COVID19 pandemic: opportunities and challenges for young environmental epidemiologists</b></p> <p>Moderators: Temitope Adebayo &amp; Masa Davidovic (Swiss TPH, Basel)</p> <p>*Introduction: Ana M. Vicedo-Cabrera (ISPM Bern)</p> <p>*Andy Haines (LSHTM, UK)</p> <p>*Barbara Hoffmann (Univ of Düsseldorf, Germany)</p> <p>*Manolis Kogevinas (ISGlobal, Spain)</p>			
<b>Friday 19 February 2021</b>				
7:45-8:45				<b>Morning pilates class with Marcella</b>
9:00-10:15	<p><b>M.ST2: Early life &amp; child health - Chair: Danielle Vienneau / Co-chair: Sara Kress</b></p> <p>Associations between ambient PM2.5 pollution and NICU admissions by neighborhood racial and socioeconomic composition - Kayan Clarke</p> <p>Air pollution and aeroallergens as an inflammatory trigger in preterm birth - Enrico Cocchi</p> <p>Dynamics of skin microvascular blood flow in children in association with pre- and postnatal air pollution exposure - Katrien Witters</p> <p>Housing characteristics and sources of indoor pollution in Denmark - Jonathan Groot</p> <p>Validation of self-reported tobacco use among young adults - Anna Zettergren</p> <p>Noise - confounding effects of air pollution in relation to childhood cognitive development - Yingxin Chen</p> <p>Sex difference of early life exposure to developmental neurotoxins on IQ: A systematic review - Carly Goodman</p> <p>In vitro models to predict the toxicological effects of polyfluoroalkyl substances. - Stefania Serra</p> <p>Protocol for a national survey on key sources of lead (Pb) exposure among children - Elizabeth Marchant</p> <p>Exposure to persistent organic pollutants and ovarian reserve reduction : a case control study in western France - Maximilien Génard-Walton</p>	<p><b>S.ST2: Air pollution: mortality, morbidity &amp; methods - Chair: Kees de Hoogh / Co-chair: Lukasz Adamkiewicz</b></p> <p>Comparing methods to impute missing daily ground-level PM10 concentrations between 2010 - 2017 in South Africa. - Oluwaseyi Arowosegbe</p> <p>Land Use Random Forest model for estimation of NO2 in Rome - Federica Nobile</p> <p>Geospatial estimation of Non-Exhaust Emissions using remote earth observation - Annalisa Sheehan</p> <p>Is a Land Use Regression model capable of predicting cleanest home-to-school routes? - Luca Boniardi</p> <p>Exploring spatial determinants of Legionnaires? disease using GIS in Switzerland - Julia Fanderl</p> <p>Systematic Review on Selected Health Effects of Long-term Exposure to Traffic-Related Air Pollution - Allison Patton</p> <p>The short-term relationship between air pollution and hospital admissions for genitourinary disease in Beijing, China - Lingzhi Chu</p> <p>Causal dose-response relations between air pollutants and mortality in elders - Yaguang Wei</p> <p>Air pollution and mortality in the RoLS cohort: a case-cohort approach. - Matteo Renzi</p> <p>Potential health benefits following the implementation of low emission zones in Malmö, Sweden - Erin Flanagan</p>	<p><b>R.ST2: Green space, temperature, cancer - Chair: Heresh Amini / Co-chair: Aina Roca Barceló</b></p> <p>The Lack of Green Spaces and Premature Mortality in European Cities: an Urban Burden of Disease Assessment - Evelise Pereira-Barboza</p> <p>Air pollution, greenness and cause-specific mortality in Greece: an ecological study - Maria-Iosifina Kasdagli</p> <p>Physical neighbourhood characterisation for the childhood obesity study - Diego Malacarne</p> <p>Effect of greenness and moderate air pollution on the nasal microbiota during the first year of life - Amanda Gisler</p> <p>Roads as modifiers of path visible vegetation and self-rated health associations in urban England &amp; Wales - Richard Belcher</p> <p>Heat-related cardiovascular morbidity and mortality in Switzerland: a clinical Perspective - Ulrich Florian Schulte</p> <p>Heat, heatwaves and cardiorespiratory hospital admissions in Helsinki, Finland - Hasan Sohail</p> <p>Exploring acclimatization to temperature in São Paulo, Brazil - Aina Roca Barceló</p> <p>Effects of nighttime fasting duration on prostate cancer risk in Spain (MCC cohort) - Anna Palomar-Cros</p> <p>Lung cancer mortality in the Swiss working population: the effect of occupation after adjustment for tobacco and radon - Nicolas Bovio</p>	

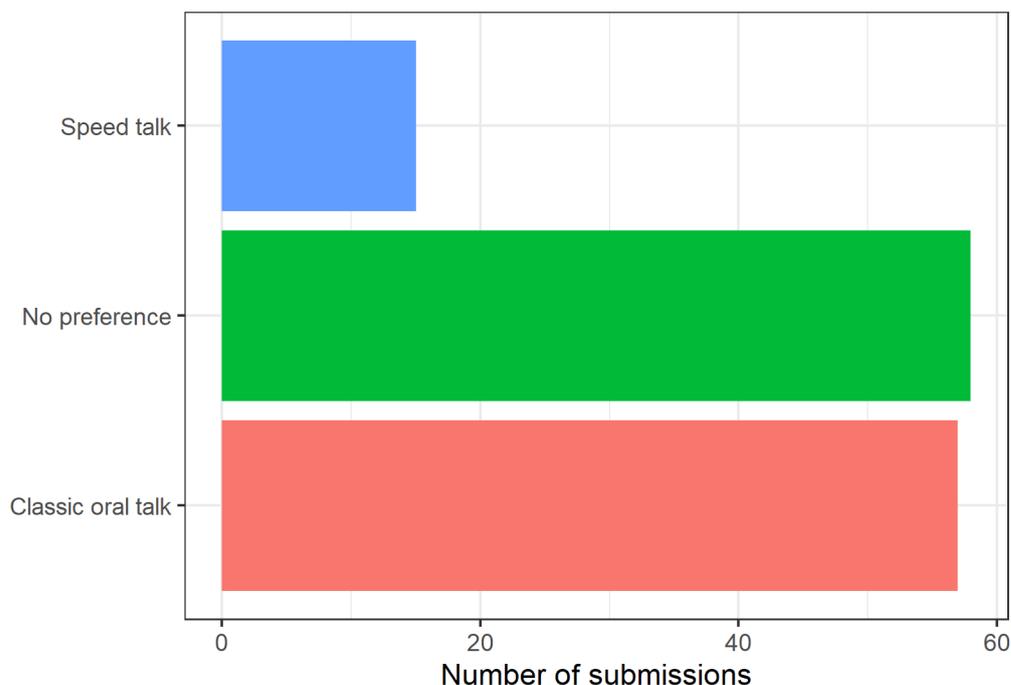
	<p>Prenatal Exposure to Persistent Organic Pollutants and Markers of Cardiometabolic Risk in Spanish Adolescents - Nuria Guil Oumrait</p> <p>Epigenetic signatures of newborn telomere length and telomere attrition in early life - Congrong Wang</p>	<p>Narrative Review of Citizen Science in Environmental Epidemiology: Setting the stage for co-created research projects - Frederique Froeling; Florence Gignac</p>	<p>Skin Cancer Mortality in Switzerland is associated with Indoor Radon and UV Exposure - Seçkin Boz</p>	
10:15-10:30	<b>Coffee break at the ISEE Young Buvette</b>			
10:30-11:15				<p style="text-align: center;"><b>Meet the editors/president</b></p> <p>*Bert Brunekreef: Environmental Epidemiology          *Hanna Boogaard: Environment International          *Manolis Kogevinas: Environmental Health Perspectives          *Payam Dadvand: Environmental Pollution          *Hans Kromhout: Occupational and Environmental Medicine          *Mark Nieuwenhuijsen: ISEE president</p>
11:15-12:30	<p><b>M.OS3: Environmental contaminants &amp; health - Chair: Maribel Casas / Co-chair: Michiel van den Dries</b></p> <p>The associations between PFAS and lipid profile in an exposed adult population: a mixture-based approach - Erich Batzella</p> <p>Association of persistent organic pollutants with neuropathy in participants with and without diabetes or prediabetes - Maximilian Schwarz</p> <p>Prenatal exposure to non-persistent chemical mixtures and offspring IQ and emotional and behavioral symptoms - Michiel van den Dries</p> <p>Prenatal exposure to per- and polyfluoroalkyl substances and child metabolic and cardiovascular health - Charline Warembourg</p>	<p><b>S.OS3: Early life &amp; Perinatal health - Chair: Ulrike Gehring / Co-chair: Rossella Alfano</b></p> <p>Exposure to greenspace and birth weight in a middle-income country - Maria Torres Toda</p> <p>Surrounding greenness and first trimester hair cortisol levels among pregnant women in a cross-sectional study - Keren Agay-Shay</p> <p>Prenatal and childhood vitamin D levels and the development of allergy and asthma in children - Júlia Sangüesa</p> <p>Early life environmental exposures induce persistent changes in gut bacteria composition of seven-year-old children - Léa Maitre</p> <p>Cord blood metabolites and rapid growth as mediators of the effects of prenatal exposures on childhood overweight - Rossella Alfano</p>	<p><b>R.OS3: Green space and mental health - Chair: Iana Markevych / Co-chair: Maya Sadeh</b></p> <p>Exposure to greenspace and aggressive behavior among schoolchildren - Mónica Ubalde-López</p> <p>Association of neighborhood greenness with mental health in elderly women - Hicran Altug</p> <p>Residential greenness is beneficial for the emotional quality of life after coronary artery bypass graft surgery - Maya Sadeh</p> <p>Assessing multiple environmental exposures and depressive symptoms: A Dutch cross-sectional smartphone-based study - Hannah Roberts</p>	
12:30-13:15	<b>Lunch at the ISEE Young Buvette</b>			
13:15-14:45	<p><b>M.OS4: Long term effects of air pollution - Chair: Tamara Schikowski / Co-chair: Adjani Peralta</b></p> <p>Long term exposure to air pollution and risk of CKD: evidence from Malmö diet and cancer cohort - Yiyi Xu</p> <p>Associations between acute and long-term exposure to PM2.5 components and temperature with QT interval length - Adjani Peralta</p> <p>Long-term low-level ambient air pollution exposure and liver cancer incidence: a pooled analysis of 6 European cohorts - Rina So</p> <p>Air pollution and sperm quality - Yara Mileth Carrejo Gironza</p> <p>How does traffic-related air pollution influence on immune system development in utero? The NELA cohort study. - Azahara M. Garcia-Serna</p> <p>Air pollution exposure in association with telomere and mitochondrial damage: TP53 and PPARG1A as key regulators. - Charlotte Van Der Stukken</p>	<p><b>S.OS4: Methods in exposure assessment - Chair: Massimo Stafoggia / Co-chair: Emeline Lequy</b></p> <p>Investigating the impact of different exposure methods on the estimates of short-term exposure to PM10 on mortality - Sofia Zafeiratou</p> <p>Estimating urban exposure to airborne metals using moss biomonitors - Emeline Lequy</p> <p>Ultrafine particle exposure during bicycle commutes in peak or off-peak traffic: a repeated measures study in Copenhagen - Marie Bergmann</p> <p>Bayesian Geostatistical Modelling of Exposure and Disease Risk in an Environmental High Risk Area in Italy - Giorgia Stoppa</p> <p>Application of a hybrid spatiotemporal air temperature model in Germany during 2000-2019 for epidemiological research - Nikolaos Nikolaou</p> <p>An ensemble approach to estimate daily PM2.5 and PM10 in France, 2003 - 2018 - Ian Hough</p>	<p><b>R.OS4: Epigenetics - Chair: Olena Gruzjeva/ Co-chair: Yueli Yao</b></p> <p>Variability of multi-omics profiles in a population-based child cohort - Marta Gallego Patils</p> <p>The early-life exposome and epigenetic age acceleration in children - Paula de Prado-Bert</p> <p>Prenatal exposure to air pollution, placental mitochondrial DNA copy number, telomere length and risk of preeclampsia - Yumjirmaa Mandakh</p> <p>Pregnancy exposure to selected phenols and placental DNA methylation in the EDEN mother-child cohort - Paulina Jedynak</p> <p>Long-term exposure to ambient air pollution exposure and nasal DNA methylation in children from Denmark - Casper-Emil Tingskov Pedersen</p> <p>Short- and mid-term exposure to air pollution are associated with DNA methylation - Yueli Yao</p>	
14:45-15:00	<b>Coffee break at the ISEE Young Buvette</b>			
15:00-17:15	<p style="text-align: center;"><b>Closing Plenary</b></p> <p>Chairs SOC: Bénédicte Jacquemin (INSERM) &amp; Massimo Stafoggia (DEP Lazio)</p> <p>*Member benefits - Michelle Turner (ISGlobal)</p> <p>*Keynote - Virissa Lenters (Uni. Medical Center Utrecht)</p> <p>*Keynote - Nina Iszatt (Norwegian Inst. of Public Health)</p> <p>*Speed-talk finals</p> <p>*Goodbye-ISEE President Mark Nieuwenhuijsen (ISGlobal)</p> <p>*Awards - presented by Awards committee</p> <p>*Close session</p>			

# Conference statistics

## Abstract submissions by theme



## Submissions by preferred presentation format



Submissions by eligibility for awards

