

WELCOME
to our
VIRTUAL
PLATFORM

HOW TO USE THE VIRTUAL PLATFORM

What you'll need to have, and what you need to do:

- Our platform uses **YouTube streams** for viewing sessions, and **Zoom** for presenting/chairing in sessions. Make sure you are **connecting via a network that allows YouTube and Zoom usage**. Several company and institutional networks use firewalls: if you are behind a firewall, we suggest you prefer to attend the conference from another network.
- **Sufficient internet bandwidth**. A connection of least 2Mbps is needed to attend the Conference, and at least 8Mbps of *wired* internet is needed for speakers and chairs.
- Make sure that **no other software** (such as Skype, Viber, GoToMeeting, etc) **is using your camera and/or microphone at that time**.

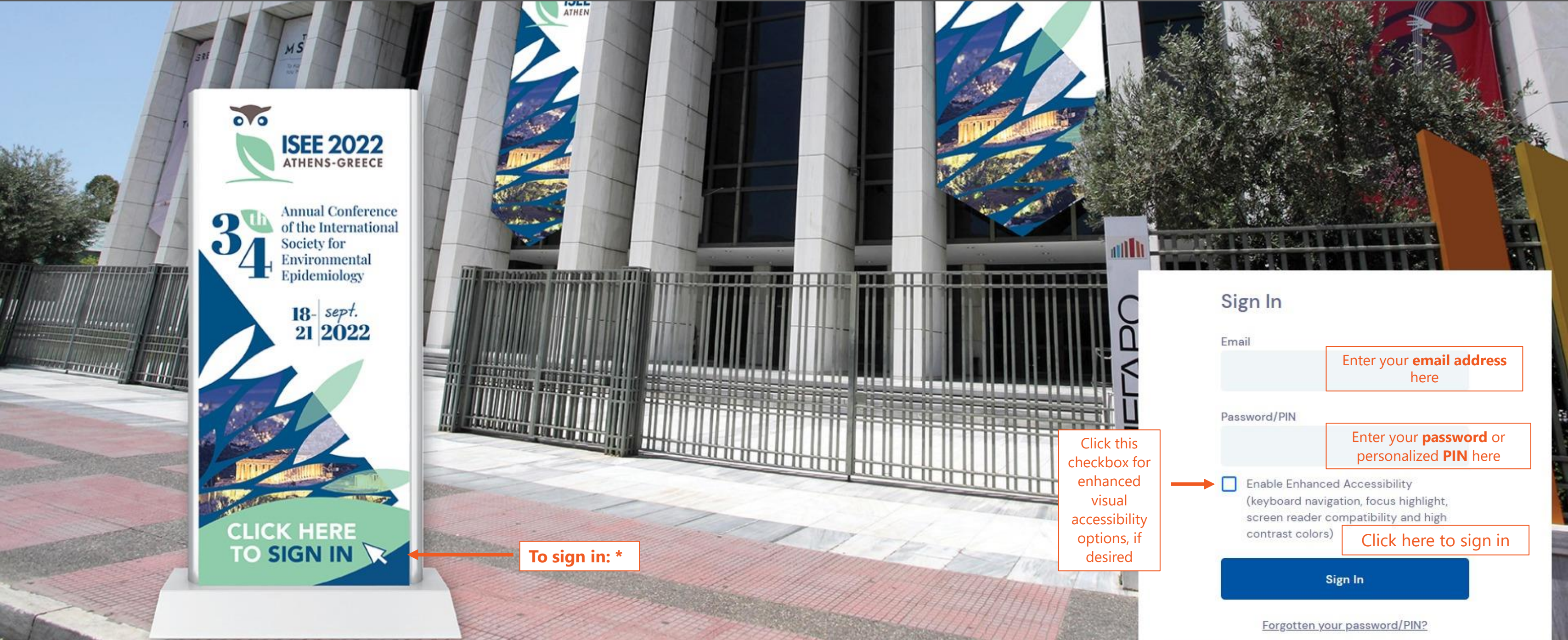
For best results, we suggest:

- Using the **Google Chrome** browser
- Using a **desktop computer**, best with a **large monitor**
- **Connection** via **private network**

INSTRUCTIONS

SIGNING IN

You will be able to access the platform several days before the Conference to log in and see how it works. The day of the Conference, you will be able to log in 1 hour before it begins.



34th Annual Conference of the International Society for Environmental Epidemiology

18-21 *sept.* 2022

CLICK HERE TO SIGN IN

To sign in: *

Sign In

Email Enter your **email address** here

Password/PIN Enter your **password** or personalized **PIN** here

Click this checkbox for enhanced visual accessibility options, if desired

Enable Enhanced Accessibility (keyboard navigation, focus highlight, screen reader compatibility and high contrast colors) Click here to sign in

Sign In

[Forgotten your password/PIN?](#)

* Login credentials (e-mail/pin) are sent via email a few days before the Conference begins.

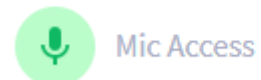
After logging in, you shall be redirected to your Settings.

Fill in or correct your **contact details** at the **Event Checkin Panel**.

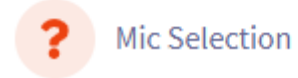
Welcome

We really want you to enjoy the event, but before we continue we want to make sure you can participate.

Let's quickly check everything and then you're on your way.



Mic Access

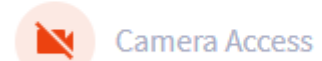


Mic Selection

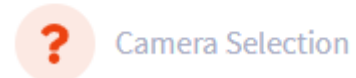
Great. Now let's make sure we're using the right mic. Select your preferred mic and click Set to continue.

Microphone (5- GENERAL - AUDIO) (1b3f:...

Set



Camera Access



Camera Selection

Choose your **camera** and **microphone**. If you have more than one, choose the one you shall use during the Conference. *

* Turning on and using your camera and microphone is not mandatory in order to attend the Conference; it does, however, optimize the experience, since it will allow you to virtually "mingle" amongst fellow attendees.



Event Checkin

Welcome Vicky. Please review your privacy settings below

About You

Your contact details were provided as part of your registration

First Name

Vicky

Last Name

Denaxa

Organization

CONVIN

Address

K. Varnali 22, Athens, Greece, 15233

Email

vdenaxa@convin.gr

Click **Update and Close** at the very bottom of the **Event Check-in** panel when you're all set!

Profile

Update your photo, bio and social media here

Profile Picture



Upload

Capture

Delete

About me

Tell us a bit about yourself

INSTRUCTIONS

GETTING AROUND THE MAIN HALL

DND

CLICK HERE IF YOU'RE ABOUT TO PRESENT OR CHAIR A SESSION

You can access the Scientific Program by clicking on the **Session Halls** banner.

You can access submitted Poster Resources by clicking on the **E-Posters** button.

E-POSTERS

Revisit your profile and audio/video settings by clicking here.

YOUR SETTINGS

CLICK HERE

SESSION HALLS

convin

Click here to visit the Congress **Exhibitors**.

EXHIBITORS

MEETING HUB

Connect and chat with your colleagues using the **Meeting Hub** feature!

CLICK HERE TO WATCH AN INSTRUCTIONAL VIDEO

If you face any technical difficulties, feel free to contact our staff by starting a Live Support request, by clicking here.

Need help, Vicky? Click here!

Click here to collect your **E-Bag**, which is an archive of useful Conference documents that we have prepared for you!



CLICK HERE FOR YOUR E-BAG

34th Annual Conference of the International Society for Environmental Epidemiology

18-21 sept. 2022

ISEE 2022 ATHENS-GREECE

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SUPPORTERS



AIRTouch is a powerful virtual device: Shortcuts to all the features available on the OnAir platform can be found here!



INSTRUCTIONS

SCIENTIFIC PROGRAM

EXIT

CONGRESS PROGRAM

SEP 18 SEP 19 SEP 20 SEP 21

10:00am

- Coffee Break
10:15am - 10:45am
- SYMPOSIUM 01: Climate disasters, human health, and public health responses ☆ Preview
- SYMPOSIUM 02: Multimodal environmental influences on children and adolescent's brain, cognitive, and mental health outcomes ☆ Preview
- POSTER DISCUSSION SESSION 01: Advances in Epidemiology and Statistical Methods | Exposure assessment ☆

12:00pm

- Lunch Break
12:15pm - 1:15pm

1:00pm

Clicking on a session block will display its information on the right-hand side.

You can access a Session by clicking **Preview**, or **Join**, as soon as it is time for the Session to begin.

You can click on the **Star** to add a Session to your Favorites.

If you have a **role** in a session, meaning if you are a **chair**, **moderator**, or a **speaker**, you can find the Zoom links of each room by clicking on this message.

CLICK HERE IF YOU'RE ABOUT TO PRESENT OR CHAIR A SESSION

BACK TO LOBBY

No further events today DND

INFORMATION

Filter ☆ Advanced

SYMPOSIUM 02: Multimodal environmental influences on children and adolescent's brain, cognitive, and mental health outcomes

Speakers

- O-SY-006 Early-life urban exposome and brain structural connectivity and morphology in preadolescents
- Anne-Claire Binter**
ISGlobal
- O-SY-007 Approaches to identify the contribution of understudied toxicants in complex metal mixtures
- Johnnye Lewis**
Director
Select or enter
- O-SY-008 Do complex mixtures of prenatal environmental and social exposures explain variation in risk for behavioral symptoms in adolescence?

If you star several sessions, you can then toggle their appearance by clicking on the star icon next to the filter field. Don't forget to click the star icon again, to see the full Scientific Program!

You can use the Filter field to search for a specific Session.




ATTENDING

SESSIONS

This session starts in
165^h 35^m

DND

SYMPOSIUM 01: Climate disasters, human health, and public health responses ☆
10:45am - 12:15pm



ISEE 2022
ATHENS-GREECE

34th Annual Conference of the International Society for Environmental Epidemiology

18-21 sept. 2022

This session will start at 10:45am

During **Sessions**, you can type in and **submit your questions via the Live Q&A Panel*** for the Moderators and Presenters to see.**



SESSION INFORMATION

LIVE Q & A

MY NOTES

Click here to expand the **Session Information** panel.

You can take **Notes** during the presentations, that you can then export afterwards.

BACK TO TIMELINE

Click here to return to the full Scientific Program.

*Questions submitted via the Live Q&A module must only relate to **the Session and its scientific content**. For **technical queries**, there is a special "Live Support" Module.

**Moderators can also answer questions if the number of questions exceeds the time frame of the Session.

LIVE

Q & A

Questions are submitted from the audience via the **Live Q&A Panel*** on the right-hand side of the screen. When the time for questions comes, the list of submitted questions **will be shared to Moderators** (only), for them to direct the questions verbally to the Speakers.**

The screenshot shows a live Q&A panel interface with a dark blue header. The header contains tabs for 'TOP 6 QUESTIONS', 'MOST RECENT', 'STARRED', and 'ANSWERED', along with a close button (X). Below the header, there is a list of six questions, each with a user profile picture, name, and timestamp. Each question has a thumbs-up icon and a count of likes. To the right of each question are icons for star, edit, checkmark, user, and trash. The questions are:

- Jürgen Hörer** 3:07pm: Do you consider bicuspidalization of Homografts? (2 likes)
- Vicky Denaxa** 3:08pm: From Dr. Sarris: Is there any reason in view of cost and availability to use homograft in Truncus? (1 like)
- Vicky Denaxa** 3:08pm: From Dr. Sarris: Congrats for a study of international cooperation on an important subject, which seems to confirm the findings of the pulmonary conduit study from the CHSS. (1 like)
- Alain Poncelet** 3:06pm: Was the mode of failure similar in the two type of valves? Stenosis vs regurgitation ? A Poncelet, Brussels (1 like)
- Alain Poncelet** 2:36pm: Very Nice presentation. Could we have more details on the technique of annuloplasty in those young infants. Thks Alain Poncelet, Brussels (1 like)

The word 'LIVE' is displayed in the bottom left corner of the panel.

The screenshot shows a live Q&A panel interface with a light blue header. The header contains a 'Live Q&A' title and an upward arrow. Below the header, there are tabs for 'TOP', 'RECENT', 'MY QUESTIONS', and 'ANSWERED'. Below the tabs, there is a list of five questions, each with a user profile picture, name, and timestamp. Each question has a thumbs-up icon and a count of likes. The questions are:

- Jürgen Hörer** 17 days ago: Do you consider bicuspidalization of Homografts? (2 likes)
- Vicky Denaxa** 17 days ago: From Dr. Sarris: Is there any reason in view of cost and availability to use homograft in Truncus? (1 like)
- Vicky Denaxa** 17 days ago: From Dr. Sarris: Congrats for a study of international cooperation on an important subject, which seems to confirm the findings of the pulmonary conduit study from the CHSS. (1 like)
- Alain Poncelet** 17 days ago: Was the mode of failure similar in the two type of valves? Stenosis vs regurgitation ? A Poncelet, Brussels (1 like)

At the bottom of the panel, there is a text input field labeled 'Type a question' and a pink 'Send' button.

*Questions submitted via the Live Q&A module must only relate to **the Session and its scientific content**. For **technical queries**, there is a special "Live Support" Module.

** Moderators can skip answering questions, if the number of questions exceeds the time frame of the Session.

You can use the **Meeting Hub** to communicate with other attendees.

CLICK HERE IF YOU'RE ABOUT TO PRESENT OR CHAIR A SESSION

AIRtouch 1:10 pm ED CLOSE

ATTENDEES
Filter on name or organization ONLINE NOW **Advanced**

- HA Helena A (PHYSICAL ATTENDANCE W/DINNER)
- HA Hicran A (VIRTUAL ATTENDANCE)
- IA Ibukun A (PHYSICAL ATTENDANCE)
- JA Jennifer A (PHYSICAL ATTENDANCE W/DINNER)
- JA John A (PHYSICAL ATTENDANCE W/DINNER)

CONNECTIONS
PENDING

IBUKUN A (PHYSICAL ATTENDANCE)

Call Chat Message Meeting Notes Details

Connect

Video Call Inactive

Call Ibukun

Agenda Meeting Hub Resources Exhibition Lobby

Here, you can **type a name to search** for a fellow attendee.

Click here to send a **connection request** to the attendee you've chosen. Once they accept, you can communicate with them at any time during the Conference via **text message**, or ask to hold a **video conversation**.

You can also send a simple message, without previous request acceptance.

Keep in mind that the Attendee List includes all registered attendees, but someone may not be online at any given time: connection requests may thus not be accepted immediately!

E-POSTER GALLERY

VIEWING E-POSTERS

The E-Poster Gallery includes the Posters of the Conference.

CLICK HERE IF YOU'RE ABOUT TO PRESENT OR CHAIR A SESSION

AIRtouch

9:31 am

ED

CLOSE

1 2 3 4 5 6 ... 10

Here, you can **type search terms** to **filter** Posters.

Filter

Advanced

You can further filter Posters by **Theme** by clicking on **Advanced**.

Poster Gallery



Hover over a Poster to enlarge the panel and see the "View Presentation" button.

Development of environmental risk score of the biomarker for kidney damage in residents exposed to multipollutant

Hyeon A Jung^{1,2}, Kyung-Hwa Choi^{1,2}, Young-Min Cha^{1,2}, Dalsoo Han^{1,2}, Young-Seob Hong^{1,2}

¹Department of Health, Behavior and Society, Mail Stop 6200, Johns Hopkins University, Baltimore, MD 21205, USA; ²Center for Communications Programs, Johns Hopkins University, Baltimore, MD 21205, USA

I. Background

Exposure to environmental pollutants has different health effects. Especially, residents living near the transportation routes such as roads, highways and waterways are more exposed to air pollution. In addition, if they are also exposed to other pollutants, they may have more severe health effects.

II. Methods

Statistical method

III. Results

IV. Results

AESurv: autoencoder survival analysis for accurate early prediction of coronary heart disease in the Strong Heart Study

Yike Shen¹, Feng Gao¹, Arce Domingo-Reloso, Allison Kupsko, Marilanti-Anna Kioumourtzoglou, Karin Haack, Maria Tellez-Plaza, Jason G. Umans, Amanda M. Fretts, Ying Zhang, Shelley A. Cole, Haotian Wu, Andrea A. Baccarelli, Ana Navas-Acien

¹Department of Environmental Health Sciences, Columbia University, New York, NY; ²Department of Environmental Health Sciences, Columbia University, New York, NY

Introduction

In Indian communities are disproportionately burdened by heart disease (CHD). Accurate early prediction of CHD and early intervention strategies prior to the disease onset could help to reduce the burden of CHD in Indian communities.

AESurv Model

Deep learning autoencoder survival analysis model (AESurv)

Log hazard ratio prediction

CHD event prediction

Capture of local sources variation using a hierarchical Bayesian spatiotemporal model for the spatial prediction of air pollution levels

Marc Saez^{1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81,82,83,84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99,100}

Background and Objective

The spatial prediction obtained from models based on local air regression (LAR), even the most advanced ones, do not fully capture local variations in the levels of air pollution. This is because they do not control for unobserved variation, including spatial and temporal dependencies. Our objective was to present a hierarchical Bayesian spatiotemporal model for the spatial prediction of air pollution levels that, considering unobserved variation, both spatial heterogeneity and spatio-temporal dependence, controls for fine scale spatial variability.

Methods

We used information on the hourly levels of air pollution and meteorological data for 2018-2020 from 116 monitoring stations located throughout Catalonia, Spain. In addition, we used high-resolution satellite (3 km resolution) and meteorological data (30 km resolution), and land use variables (raster of the monitoring station, NDVI, land cover, density). The pollutants we were interested in for making spatial predictions are PM_{2.5}, PM₁₀, NO₂, and O₃.

We specified a hierarchical spatiotemporal model using the stochastic Partial Differential Equations of the integrated nested Laplace approximation.

$$Z_i(t) = Y_i(t) + \epsilon_i(t)$$

Pollution on Rescue Medication Use for Californian Residents

Jason Su

POSTER DISCUSSION SESSION 01: Advances in Epidemiology and Statistical Methods | Exposure assessment
Sep 19 10:45am - 12:15pm

VIEW PRESENTATION

P-0006 Development of environmental risk score of the biomarker for chronic kidney disease in residents exposed to pollutant mixtures

POSTER DISCUSSION SESSION 01: Advances in Epidemiology and Statistical Methods | Exposure assessment
Sep 19 10:45am - 12:15pm



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Agenda



Meeting Hub



Resources



Exhibition



Lobby

POSTER GALLERY

VIEWING POSTERS

You are able to peruse and download submitted Posters and leave Questions for the authors to answer.

PowerPoint 프레젠테이션

P-0006 Development of environmental risk score of the biomarker for chronic kidney disease in residents exposed to pollutant mixtures

POSTER DISCUSSION SESSION 01: Advances in Epidemiology and Statistical Methods | Exposure assessment
Sep 19 10:45am - 12:15pm

Development of environmental risk score of the biomarker for kidney damage in residents exposed to multipollutant

Hyun A Jang^{1,2}, Kyung-Hwa Choi^{2*}, Yong Min Cho³, Dahee Han^{3,4}, Young Seoub Hong⁵

¹Department of Statistics, Sookmyung Women's University, Seoul, Republic of Korea;
²Department of Preventive Medicine, Dankook University College of Medicine, Cheonan, Republic of Korea;
³Institute of Environmental Health, Seokyeong University, Seoul, Republic of Korea;
⁴Department of Preventive Medicine, College of Medicine, Korea University, Seoul, Republic of Korea;
⁵Department of Preventive Medicine, School of Medicine, Dong-A University, Busan, Republic of Korea
*rosach72@dankook.ac.kr

I. Background

Exposure to environmental pollutants has adverse health effects



Figure 1: Graphical abstract (Sarihi et al., 2021)

- Exposure of environmental pollutants is not exposed to single pollution and does not cause only one disease.
- Especially, residents living near the vulnerable areas, which are located near industrial facilities such as mines, smelters, and manufacturing, has been chronically exposed to low pollution (Herpin et al., 2009; Laney and Weissman, 2014; Jo et al., 2021).
- In addition, if they may have worked in a job that emits pollutants, they would have been persistently exposed to high pollution. It is known to be implicated in various diseases (Paulin et al., 2015).

Statistical method

Algorithm



Performance

$$Corr = \frac{\sum (ERS - \overline{ERS})(Y - \bar{Y})}{\sqrt{\sum (ERS - \overline{ERS})^2 \times \sum (Y - \bar{Y})^2}}$$

Y: biomarker, n: number

Variable importance (VI)

$$VI = \frac{SSE - SS}{SSE}$$

SSE: the sum of squared error from a fit
SSE(-i): the sum of squared error from metabolite

AIRtouch 9:55 am

Discussion Forum

Evdokia Denaxa 9:43am
How was the ERS calculated?

Hyun Jang 9:53am
Thank you for your question.

Type a message

Action Agenda Meeting Hub Resources Exhibition Lobby

Click on **Ask a Question** to leave questions for the Poster authors in the **Discussion Forum**. Presenters can join in on the Discussion and respond by viewing their Discussion Forum every so often.

DOWNLOAD E-POSTER

You can download submitted Posters to your computer.

ASK A QUESTION

BACK TO LOBBY

POSTER SESSIONS

POSTER PRESENTERS


Several Poster presenters may see the backend screen of their Poster submission. Here's how to navigate it:

P-0006 Development of environmental risk score of the biomarker for chronic kidney disease in residents exposed to pollutant mixtures ☆
POSTER DISCUSSION SESSION 01: Advances in Epidemiology and Statistical Methods | Exposure assessment
Sep 19 10:45am - 12:15pm

This session starts in
143h 55m 1s

No further events today

 Presentation Information

 Queue

 Attendees

 Handouts

 Discussion Forum

Evdokia Denaxa 9:43am

How was the ERS calculated?

Me 9:53am

Thank you for your question.

Type a message

Live Q & A is not enabled

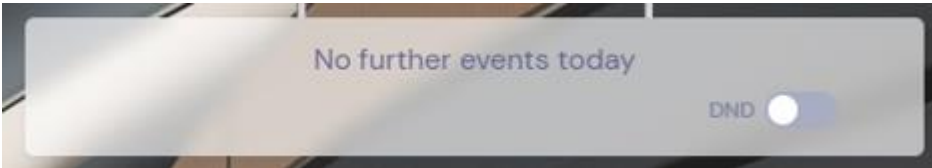
In the backend, the **Discussion Forum** function is found here, where you can answer attendees' questions in writing.

Keep in mind to **visit this page** every so often, in order to answer any questions that may have been submitted.

LIVE SUPPORT

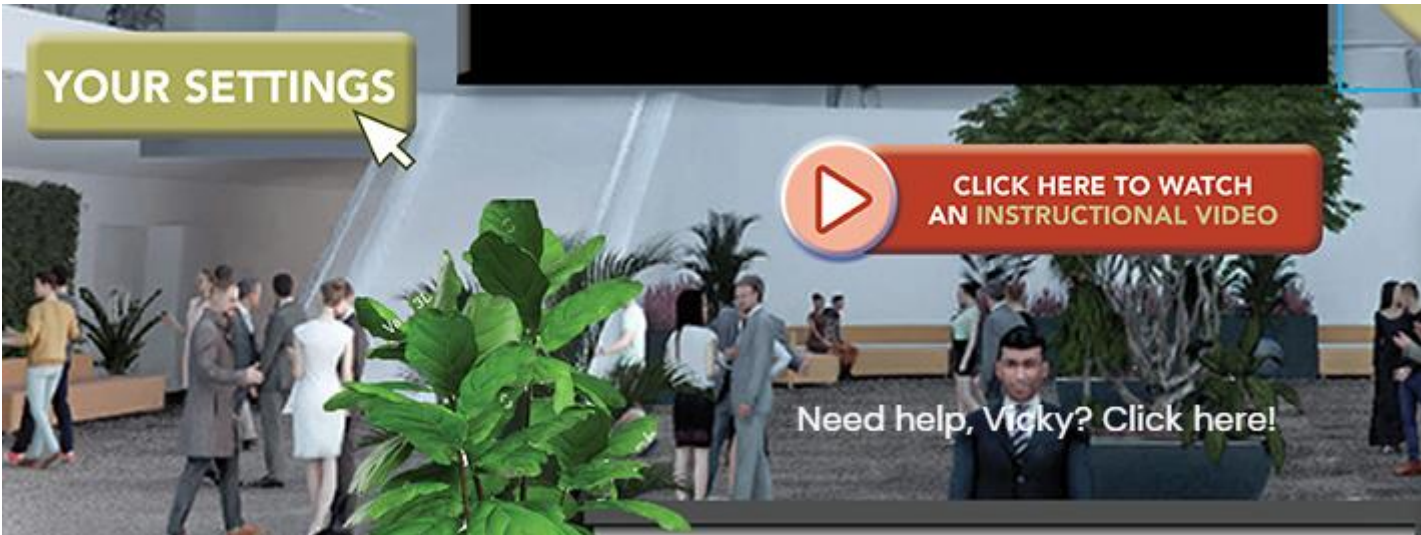
& HELPFUL TIPS

The first thing to do when you face a technical problem is to refresh the Program, or log out and log in to the Platform.

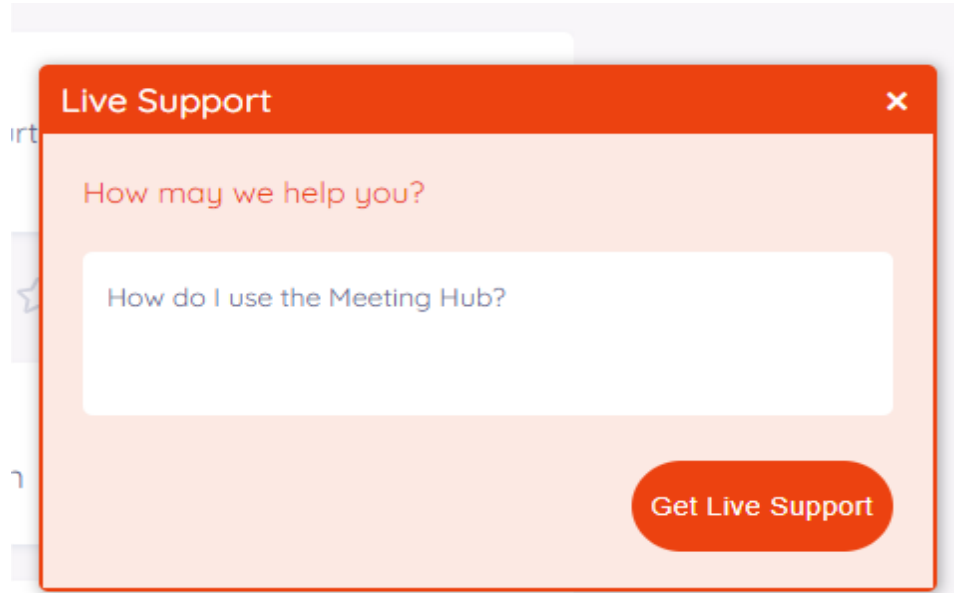


The **DND** (Do Not Disturb) button on top right will pause any incoming calls or messages while on. Once it is turned off, you will receive all messages sent to you.

You can change your Profile Settings at any time by clicking here.



If the first step doesn't work... click on the **Need Help? Click Here! (Live Support)** in the Main Hall, and describe the problem in the box that pops up.



If you have a small computer screen, and it looks like Timeline components are **off the screen**, a helpful tip is to use the **Ctrl & minus (-)** buttons on your keyboard, in order to zoom out and make the whole window look smaller, to view everything on screen.

Our personnel will be very happy to assist you with any questions or problems you may face!

EXHIBITION

AREA

The **Exhibition Area** features the companies that sponsor the Conference. You may visit it at any time to read about them, watch their videos, and download their brochures.

By clicking on a company logo, you can peruse and download files and brochures that the companies have uploaded.



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EXHIBITION

AREA

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Exhibitors can upload **videos** and **other files** containing interesting information that you can peruse during Exhibition hours.



If the Company has a live representative available, a **green dot will appear**. You can then send a request to speak with them via **live chat** or **live meeting** during Exhibition hours.





www.isee2022.org

3th
4th Annual Conference of
the International Society
for Environmental
Epidemiology

18-21 | *sept.*
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