



FIRST INTERNATIONAL SYMPOSIUM ON ONE HEALTH EPIGENOMES AND MICROBIOMES: FROM SOIL TO PEOPLE

📅 September 11-14, 2022
📍 Swissotel, Quito -Ecuador



ENVIRONMENTAL GENOMICS, Inc.

FIRST INTERNATIONAL SYMPOSIUM ON ONE HEALTH EPIGENOMES AND MICROBIOMES: FROM SOIL TO PEOPLE



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'First International Symposium on ONE HEALTH Epigenomes and Microbiomes: From Soil to People' will take place in Swissôtel, Quito, September 11-14, 2022, bringing together experts from around the world to share learnings across diverse disciplines focused on the need to implement the "ONE HEALTH / UNASALUD approach to conserving healthy ecosystems, to produce and maintain healthy animals, and protect human health long-term".

The scientific program will include topics related to One Health science, biodiversity conservation, environmental epigenetics, COVID-19 and wastewater-based epidemiology, mangroves genomes and epigenomes (MangroveENCODE), shrimp genomes and epigenomes (ShrimpENCODE); farmed shrimp aquaculture in coastal wetlands of Latin America; heavy metals, bisphenols and other endocrine-disrupting chemicals (EDCs) like glyphosate and other pesticides in agricultural soil and cow's milk cheese, sediment of mangroves and wetlands, shrimp and other crustaceans, molluscs, livestock, chicken, wildlife, pets and people; glyphosate-free aquaculture feeds, glyphosate-free shrimp and fish; metals chelated by glyphosate in mangrove sediment near banana plantations and shrimp farms, fish, shellfish and people; microplastics in soil, water, shellfish and people; antimicrobial resistance; EDCs and congenital malformations, children obesity and One Health, PCBs, PAHs, toxicological transgenerational epigenetic inheritance to assess health risks to terrestrial and aquatic animals, and people caused by the exposure to glyphosate, Roundup®, and other environmental EDCs.

Stay in touch with the program developments for the 'First International Symposium on ONE HEALTH Epigenomes and Microbiomes: From Soil to People' through our webpage at: <https://bit.ly/37oo6kV>? and if you wish to be notified as more information becomes available, please send us an email at fucobi@gmail.com or fucobi.unasalud@gmail.com

Save the dates and join us in Quito, Ecuador on September 11-14, 2022!

If you would like to extend your trip to visit the Galapagos Islands, we recommend checking out: www.naturegalapagos.com



ENVIRONMENTAL GENOMICS, Inc.

YOUR SYMPOSIUM REGISTRATION INCLUDES:

Physical-General Rate: This pass offers the whole symposium experience including admission to all sessions and Microplastics workshop, welcome dinner, lunches and refreshments (three days), and a book of abstracts (CD).

Physical-Student Rate: This pass offers students the full symposium experience at a special rate.

Virtual-General Rate: This pass includes admission to all sessions and Microplastics workshop, and a book of abstracts (CD).

Virtual-Student Rate: This pass offers students the virtual symposium experience at a special rate

	Virtual	Physical	
General Rate	\$60	\$200	-To qualify for the student rate, a copy of your student I.D. is required.
Student Rate	\$30	\$130	-Taxes are not included (+12%) -Only pre-registered attendees are guaranteed materials.

Travel Awards for Students to attend the ‘First International Symposium on ONE HEALTH Epigenomes and Microbiomes: From Soil to People’, Swissotel, September 11-14, 2022, Quito, Ecuador

The FUCOBI Foundation of Ecuador (www.fucobi.org) has announced Travel Awards for Ecuadorian and international students to attend the 'First International Symposium on ONE HEALTH Epigenomes and Microbiomes: From Soil to People', to be held at the Swissôtel, September 11-14, 2022, in Quito, Ecuador.

Twenty-four 'Johnnie Castro Montealegre Travel Awards' and 'Jimmy Alcívar Arteaga Research and Travel Awards' are available for students interested in attending the symposium. Awardees have to present a poster in English or Spanish, and may be selected for a short oral presentation based on research quality rankings.

Interested students should send a message to Dr. Acacia Alcívar-Warren at fucobi@gmail.com including a copy of your curriculum vitae and the one-page abstract to be presented at the symposium. The awards include the cost of registration fees, meals, poster printing, and mileage or bus fare for local applicants. International students may receive airfare assistance.



The 'First International Symposium on ONE HEALTH Epigenomes and Microbiomes: From Soil to People' program features special sessions and various symposia and workshops about applying the holistic ONE HEALTH approach to solving specific and complex problems that arise at the interface of people, animals, and the environment. Sample topics include:

- Antimicrobial resistance
- Aquatic animals (crabs, oysters, shrimp, fish) and veterinary health
- Biodiversity conservation
- Bisphenols
- Blue carbon and mangrove ecosystem management
- Breeding & Genetics
- Children obesity and One Health
- COVID-19 and wastewater-based epidemiology
- Diseases of shrimp and fish
- Environmental Epigenetic, epidemiology
- Endocrine-disrupting chemicals (EDCs) like metals, glyphosate, and other pesticides in agricultural soil
- EDCs and neural tube defects, congenital malformations
- Biodiversity and Climate Change, adaptation, resilience
- Food safety and food security
- Glyphosate-free aquaculture feeds
- Glyphosate-free shrimp and fish, metals chelated by glyphosate
- Glyphosate effect of low doses of glyphosate or Glyphosate-based herbicides on rainbow trout
- Glyphosate effects in shrimp, mussel, fish, soils earthworms, Pseudomonas, in glyphosate-rich soil
- Immunology

- Mangroves genomes and epigenomes
- Metals in different food groups such as meat, fish and vegetable oils, shrimp/shellfish and crustaceans, seafood, cereals, vegetables, fruits and products thereof, fats and oils, dairy products (milk, baby milk, cheese etc.), baby food and infant formulae, dietary supplements, other food and feed, wines and alcoholic beverages, soft drinks, chocolate
- Metatranscriptomes
- Microbiomes
- Microplastics
- Monkeypox
- Nutrition & Feed
- One Health science
- Organic Aquaculture
- PAHs
- PCBs
- PFAFs
- Shrimp and shellfish genomes and epigenomes
- Shrimp feeding and nutrition
- Shrimp genetics and biotechnology
- Shrimp pathology and biosecurity
- Sustainable development of aquaculture and mangrove reforestation
- Toxicological transgenerational epigenetic inheritance
- Water Quality and Usage
- Women in Aquaculture



TENTATIVE SCHEDULE

Sunday, September 11

Poster Set-up.....	17:00 - 18:00
Welcome dinner.....	18:00 - 21:00

Monday, September 12

Registration Open.....	8:30 - 12:00
Welcome.....	8:30 - 8:45
Sessions.....	8:45 - 10:30
Refreshment Break and Poster	10:30 - 10:45
Sessions.....	10:45 - 12:45
Lunch (Included).....	12:45 - 14:00
Sessions.....	14:00 - 16:00
Refreshment Break and Poster	16:00 - 16:15
Sessions.....	16:15 - 18:30

Tuesday, September 13

Microplastics Workshop.....	8:30 - 10:30
<i>Plenary Speaker: Dr. Sandra Shumway, University of Connecticut, CT, USA</i>	
Refreshment Break and Poster	10:30 - 10:45
Microplastics Workshop.....	10:45 - 12:45
<i>.Plenary Speaker: Dr. Sandra Shumway, University of Connecticut, CT, USA</i>	
Lunch (Included).....	12:45 - 14:00
Glyphosate, metals chelated by glyphosate, glyphosate-based herbicides, in animal feeds.....	14:00 - 16:00
Refreshment Break and Poster	16:00 - 16:15
Biodiversity Conservation session.....	16:15 - 18:30

Wednesday, September 14

Environmental Epigenetics	8:30 - 10:30
<i>Plenary Speaker: Habib</i>	
Refreshment Break and Poster	10:30 - 10:45
Shrimp and Fish Genomes and Epigenomes (ShrimpENCODE, FishENCODE)	10:45 - 12:45
Lunch (Included).....	12:45 - 14:00
Mangroves Genomes and Epigenomes (MangroveENCODE)	14:00 - 16:00
Refreshment Break and Poster	16:00 - 16:15
Mangrove Reforestation Project.....	16:15 - 18:30

FOR MORE INFORMATION



Fucobi
Conference Manager
E-mail: fucobi@gmail.com
www.fucobi.org



CALL FOR PAPERS – DEADLINE: August 15, 2022

The First International Symposium on ONE HEALTH Epigenomes and Microbiomes: From Soil to People, invites you to submit abstracts related to One Health science, biodiversity conservation, environmental epigenetics, COVID-19 and wastewater-based epidemiology, mangroves genomes and epigenomes (MangroveENCODE), shrimp genomes and epigenomes (ShrimpENCODE); farmed shrimp aquaculture in coastal wetlands of Latin America; heavy metals, bisphenols and other endocrine-disrupting chemicals (EDCs) like glyphosate and other pesticides in agricultural soil and cow's milk cheese, sediment of mangroves and wetlands, shrimp and other crustaceans, molluscs, livestock, chicken, wildlife, pets and people; glyphosate-free aquaculture feeds, glyphosate-free shrimp and fish; metals chelated by glyphosate in mangrove sediment near banana plantations and shrimp farms, fish, shellfish and people; microplastics in soil, water, shellfish and people; antimicrobial resistance; EDCs and congenital malformations, children obesity and One Health, PCBs, PAHs, toxicological transgenerational epigenetic inheritance to assess health risks to terrestrial and aquatic animals, and people caused by the exposure to glyphosate, Roundup®, and other environmental EDCs.

All abstracts must be in English – the official language of the symposium. We encourage submission of abstracts for poster and oral presentations.

Students interested in applying for a Student Travel Award should send the abstract and copy of the curriculum vitae to Dr. Acacia Alcívar-Warren at fucobi@gmail.com.

INSTRUCTIONS FOR PREPARATION OF ABSTRACTS

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THE MANGROVE EPIGENOME (MangroveENCODE) PROJECT OF THE FUCOB FOUNDATION OF ECUADOR: A ONE HEALTH APPROACH TO CONSERVATION OF HEALTHY MANGROVES AND WETLANDS. TO PRODUCE HEALTHY SHELLFISH AND FISH, TO PROTECT PUBLIC HEALTH LONG-TERM

Miriam Alcívar-Arreaga, Iris Hernández, Mayra Galiado, Gober Asunción, Jorge Romero, Pedro Andrade, Gladys Zuniga, Christian Salas, Sofia Figueroa, Daniela Espinoza, Freddy Aveiga, Fernando Aveiga-Alcivar, Caroline Acacia Warren, Jennifer Ningshui, Warren, Diana Villota, Diana Calvache, Jammy Alcivar, Christian Alcivar, Andres Aveiga, Benjamin Hall, Brenna Kelley, Pedro Alcivar-Marcillo, Oscar Jaen, Genesis Solizcano, Flavio Barros, Cesar Valarezo, Diego Alejandro, Andres Alejandro, Karina Alejandro, Acacia Alcivar-Warren

Programa "UNA SALUD / ONE HEALTH Epigenomics and Microbiomes:
Somos lo que comemos / We are what we eat"
Fundación para la Conservación de la Biodiversidad y Genética (FUCOB)
Quito, Ecuador. www.fucobi.org
fucobi@gmail.com

The long-term goal of the MangroveENCODE project of the FUCOB Foundation of Ecuador is to help conserve healthy mangrove and coastal ecosystems through education and research, by (1) promoting replanting and restoration to address both the community needs and the underlying ecological causes of mangrove loss; (2) understanding mangrove resilience to climate change by studying their genomes and epigenomes, including transposable elements (TEs), and (3) educate about the genetic and epidemiology and association of antimicrobial resistance (AMR) and community concerns (COCs) in emerging resistant pathogens of public health concern. The medium-term goal is to examine the interactions between greenhouse gas fluxes and carbon sequestration (blue carbon) and microbial communities (microbiome) with AMR and COCs. The project will study the effects of endocrine disrupting chemicals (EDCs) like heavy metals, biocides, pesticides, glyphosate-based herbicides, microbial transgene *Bacillus thuringiensis*, *Vibrio* sp., metals chelated by glyphosate, bisphenol A (BPA), microplastics, bis(2-ethylhexyl) phthalate (DEHP), and per- and poly-fluoroalkyl substances (PFAS), organophosphates, COVID-19 disinfectants, and persistent organic pollutants (PCBs, PAHs) in mangrove sediment, considering adaptation to climate change and environmental degradation-related health issues.

Baseline information is being obtained for future studies to test mechanism-driven hypotheses to examine the transgenerational epigenetic inheritance mechanisms involved in the interactions of CO₂ with EDCs and the microbiome of mangrove sediment/agricultural soil, using ecological, toxicological, 'omics' technologies, and computational tools. Preliminary results will be presented about (a) in-depth review of the scientific literature using NCBI databases about mangroves genomes and transcriptomes, genetic variation, AMR, EDCs, TEs like Gypsy LTR retrotransposons and epigenetic components [DNA and histone methylation, non-coding RNAs (miRNA, siRNA, lncRNA)] involved in salt and temperature stress adaptation of mangroves to global change; (b) protocols to collect 1-meter sediment cores for CO₂ and EDCs analyses; and (c) metal concentrations in mangrove sediment, shellfish and people from estuaries of Ecuador.

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- TITLE OF PAPER:** The abstract title is printed in CAPITAL LETTERS, with the exception of scientific names which should be upper/lower case and italicized. Scientific names should not be preceded or followed by commas or parentheses or other markings.
- AUTHOR(S):** The first name should be the presenting author. Use * after the presenting author. Type in upper/lower case.
- ADDRESS AND EMAIL:** Type only the presenting author's institution, address, and email. Type in regular upper/lower case.
- MAXIMUM LENGTH:** One page
- PAGE SIZE:** Standard 8.5 x 11 paper
- MARGINS:** 1-inch margin throughout (left/right/top/bottom)
- SPACING:** Single spaced
- PARAGRAPHS:** Paragraphs should be separated by a blank line and should not be indented.
- FONTS:** Character fonts should be 12 point type.
- FIGURES & TABLES:** Photo, figures, and tables should be in color and are highly recommended. They should be reduced to the appropriate size for a one page abstract and should be clearly readable at the reduced size. The reduced figures and tables should be included in the abstract in camera-ready form.

PLEASE SUBMIT YOUR ABSTRACT ONLINE

If you encounter any problems during the submission process or you do not receive any confirmation by email please contact us at fucobi@gmail.com or fucobi.unasalud@gmail.com

If you are unable to submit your abstract online, you can send it directly to fucobi@gmail.com