International One Health Conference in Catania, Italy 27-28, September 2022

A systemic approach to manage urban and natural resources
Scientific Program

**Tuesday, September 27, 2022**

**OPENING CEREMONY** Start 9.00am UTC (7.00am UTC)

Domain 1: One health, antimicrobial resistance, and epidemiological models

Domain 2: One health in transition cities, big data, and urban metabolism

PART 1: Building a new environment under a One-Health Vision

PART 2: Nature-based solutions - 15.30 - 17.00

Domain 3: One health as part of adaptation and human rights

**Wednesday, September 28 2022**

DAILY OPENING 9.00 - 10.00 CEST (UTC +2)

Domain 4: One-health vision on environmental hazards, toxicology, and epigenetics

CONCLUSIONS OF THE CONFERENCE

POSTER SESSION

STUDENT CONFERENCE AND AWARDS
September 27th, 2022

OPENING CEREMONY Start 9.00am CEST* (7.00am UTC**)  
**Chairs**: Margherita Ferrante, Gea Oliveri Conti

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<th>Opening Keynotes and Speakers</th>
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<tbody>
<tr>
<td><strong>Francesco Priolo</strong> - <em>Dean of Università di Catania</em></td>
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<td><strong>Gaetano Sirna</strong> - <em>General Director Policlinico di Catania</em></td>
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<tr>
<td><strong>Maria Neira</strong> - <em>Director of Department of Environment, Climate Change, and Health WHO</em></td>
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<td><strong>Pasqualino Rossi</strong> - <em>Italian Ministry of Health</em></td>
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<td><strong>Ruggero Razza</strong> - <em>Assessor of Health Regione Sicilia</em></td>
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<td><strong>Municipality of Catania Representative</strong></td>
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<td><strong>Giuseppe Arcidiacono</strong> - <em>Assessor of Health Comune di Catania</em></td>
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<tr>
<td><strong>Ignazio La Mantia</strong> - <em>President of Medical Order</em></td>
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*CES = Central European Summer Time (UTC+2) **UTC = Universal Time Coordinated (GMT)*
September 27th 2022

Domain 1: One health, antimicrobial resistance and epidemiological models

Start :10.30 CEST (UTC+2)  End : 12.15 CEST (UTC+2)

Domain topics
- Infection and antimicrobial resistance
  - COVID-19 and long COVID-19
  - Vector borne diseases
  - Epidemiology models and policies

Keynotes and Guests 10.00 CEST (8.00 UTC)

Antonella Agodi, Director of the Department of Medical, Surgical Sciences and Advanced Technologies "GF Ingrassia"

From 10.30 - 12.00 CEST (UTC+2)

Chairs:
- Paolo Lauriola, RIMSA
- Margherita Ferrante, University of Catania
- Antonio Cristaldi, University of Catania

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<tr>
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</thead>
<tbody>
<tr>
<td>00:10</td>
<td>1022</td>
<td>Gea Oliveri Conti</td>
<td>One-health approach in the ecological transition</td>
<td>Domain 1</td>
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</tbody>
</table>

September 27, 2022
### Promotion of safe food to consumers of Milk and Dairy Products in Kibaha Town Council (Tanzania)

**Speaker:** Damas Theobald Msaki and Sigrid Agenäs

**Abstract:**
Promotion of safe food to consumers of Milk and Dairy Products in Kibaha Town Council (Tanzania)

**Domain:** Domain 1
**Session Type:** ORAL

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### COVID-19 Epidemic spread and Green Areas Italy and Spain between 2020 and 2021: An observational multi-country retrospective study

**Speaker:** Andrea Falco and Prisco Piscitelli

**Abstract:**
COVID-19 Epidemic spread and Green Areas Italy and Spain between 2020 and 2021: An observational multi-country retrospective study

**Domain:** Domain 1
**Session Type:** ORAL

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### Covid-19 societal effects and perceptions: The case study of Italy

**Speaker:** Gabriela Fernandez, Harrison Yang, Carol Maione, Karenina Zaballa, Norbert Bonnici, Jarai Carter, and Ming-Hsiang Tsou

**Abstract:**
Covid-19 societal effects and perceptions: The case study of Italy

**Domain:** Domain 1
**Session Type:** ORAL

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### ANTIMICROBIAL RESISTANCE SURVEILLANCE CURRICULUM DEVELOPMENT ONE HEALTH APPROACH A KENYAN EXPERIENCE

**Speaker:** Sheilla Chebore, Jedidh Kahura and David Mungai

**Abstract:**
ANTIMICROBIAL RESISTANCE SURVEILLANCE CURRICULUM DEVELOPMENT ONE HEALTH APPROACH A KENYAN EXPERIENCE

**Domain:** Domain 1
**Session Type:** ORAL

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### CLIMATE CHANGE, SUSTAINABLE HEALTH AND CORONAVIRUS DISEASE ( COVID-19 PANDEMIC) IN NIGERIA: THE LEGAL ISSUES IN PERSPECTIVE.

**Speaker:** Erimma Orie

**Abstract:**
CLIMATE CHANGE, SUSTAINABLE HEALTH AND CORONAVIRUS DISEASE ( COVID-19 PANDEMIC) IN NIGERIA: THE LEGAL ISSUES IN PERSPECTIVE.

**Domain:** Domain 4
**Session Type:** ORAL

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**CONCLUSIONS of the Domain from Chairs - 12.15 - 12.30**

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*September 27, 2022*
Domain 2: One health in transition cities, big data, and urban metabolism

Start: 13.45 CEST (UTC+2)  End: 17.00 CEST (UTC+2)

PART 1 - Building a new environment under a One-Health Vision

Domain topics
- Net Zero, Decarbonization, and healthy cities
- C40 Network Connection and Ren21
- Big data analytics for epidemiology and environmental monitoring
- Citizen science

Keynotes and Guests 14.00 CEST (12.00 UTC)

Introduction: Prisco Piscitelli, Vice President of the Italian Society of Environmental Medicine (SIMA)
Carlos Dora, President Isuh
Mark Neuhausen, Institute for Global Health (ISGlobal),

From 14.30 to 15.30 CEST (UTC+2)
Prisco Piscitelli, SIMA
Gabriela Fernandez, Metabolism of Cities Living Lab, San Diego State University
Domenico Vito

September 27, 2022
### Authors and Titles

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<tr>
<th>Time (min)</th>
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<th>Presentation</th>
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</thead>
<tbody>
<tr>
<td>00:10 00:05 quest</td>
<td>2683</td>
<td>Antonina Torrisi, Margherita Ferrante, Alessia Anna Di Prima, Domenica Niglio, Fiorella Paderni, Domiziana Giordano and Rosalia Ragusa</td>
<td>BENCHISTA project: Benchmarking of population-based childhood cancer survival by Toronto stage</td>
<td>Domain 2</td>
<td>ORAL</td>
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<tr>
<td>00:10 00:05 quest</td>
<td>2867</td>
<td>Francisco Guachalla</td>
<td>Embracing the SDG-2030 for Monitoring and Learning in Emergency and Developing Projects</td>
<td>Domain 2</td>
<td>ORAL</td>
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<tr>
<td>00:10 00:05 quest</td>
<td>3357</td>
<td>Paolo Fidelbo, Rosalia Ragusa, Carmelo Ettore Viscosi, Andrea Benedetto, Eleonora Salamone, Angelo Pisano and Margherita Ferrante</td>
<td>Lean six sigma: application of the methodology in data processing for Cancer Registry</td>
<td>Domain 2</td>
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<tr>
<td>00:10 00:05 quest</td>
<td>6976</td>
<td>Kamran Khan and Thomas Henschel</td>
<td>A Life Cycle Thinking Based Framework for the Assessment of Sustainability: From the Perspective of Literature Review</td>
<td>Domain 2</td>
<td>ORAL</td>
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</table>

### PART 2- Nature Based solutions - 15.30 - 17.00

**Domain Topics:**
- Nature-based solutions (multidimensional approach)
- Air quality and healthier cities
- Metabolism of cities and implications on health

### Keynotes and Guests 15.30 CEST (13.30 UTC)

**Ingrid Coetzee**, ICLEI  
**Francesco Petracchini**, CNR-IIA

September 27, 2022
**Presenters Session**

**From 16.00 to 17.00 CEST**

Chairs:
- **Stefania Romano**, ICLEI
- **Gabriela Fernandez**, Metabolism of Cities Living Lab, San Diego State University
- **Valerio Paolini**, CNR-IIA

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<tbody>
<tr>
<td>00:10</td>
<td>1317</td>
<td>Julia Nawaro, Lorenzo Gianquintieri, Andrea Paglisa, Alessandra Silvaroli, Giuseppe Maria Sechi and Enrico G. Caiani</td>
<td>Heat waves and cardiovascular events in Milan, Italy: a geospatial case-crossover approach using data from emergency medical services</td>
<td>Domain 2</td>
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<tr>
<td>00:10</td>
<td>4232</td>
<td>Antonio Cristaldi, Rosalia Pellitteri, Paola Dell’Albani, Gea Oliveri Conti, Chiara Copat, Alfina Grasso, Maria Fiore, Giuseppa Milletari, Sebastiano Cavallaro and Margherita Ferrante</td>
<td>Preliminary data on the effects of PM2,5 on Olfactory Ensheathing Cells (OECs)</td>
<td>Domain 2</td>
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<tr>
<td>00:10</td>
<td>6976</td>
<td>Kamran Khan and Thomas Henschel</td>
<td>A Life Cycle Thinking Based Framework for the Assessment of Sustainability: From the Perspective of Literature Review</td>
<td>Domain 2</td>
<td>ORAL</td>
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**CONCLUSIONS of The Domain from Chairs**

September 27, 2022
Domain 3: One health as part of adaptation and human rights

Domain topics
- Health as a part of adaptation
- Resilient health care systems
- Community health and resilience
- Child and maternal health as element of resilience
- Human rights and health (Vaccine and immunization)
- Health strategies and application for minorities and disadvantaged people
- SDG 3 and related SDGs

Keynotes and Guests - 17.00 CEST (15.00 UTC)

Giulia Bosi, PhD. candidate in Public International Law (PhD. programme in Human Rights and Global Politics)
Cristoforo Pomara, Full Professor of Forensic Medicine at the University of Catania, SIMA

From 17.30 to 19.00 CEST (UTC)

Chairs:
Melissa Jimenez Gomez Tagle, Technical University of Munich (TUM)
Maria Grazia Elfio, Giornalista Biomedicina e Salute
Graziella Machado, Federal University of Health Sciences of Porto Alegre (UFCSPA)

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<tbody>
<tr>
<td>00:10</td>
<td>3677</td>
<td>Sara Simeone, Severino Romano, Mauro Viccaro, Frans Sijtsma, Maria Consiglia D'Angelo and Mario Cozzi</td>
<td>Understanding the role of nature in urban-rural linkages: identifying the potential role of rural nature-based attractive clusters that serve human well-being</td>
<td>Domain 3</td>
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</table>
A systemic approach to manage urban and natural resources

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<tr>
<td>00:10</td>
<td>9883</td>
<td>Laura Kadile and Marina Loseviča</td>
<td>Healthcare quality indicators as a tool for safeguarding patient with limited capacity and physician rights</td>
<td>Domain 3</td>
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<tr>
<td>00:10</td>
<td>3841</td>
<td>Rachel Koshy, Nazrila Hairizan Nasir, Samsiah Awang and Kamaliah Mohamad Noh</td>
<td>PRIMARY HEALTH CARE ASSESSMENT: VITAL SIGNS PROFILE FOR MALAYSIA</td>
<td>Domain 3</td>
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<tr>
<td>00:10</td>
<td>8168</td>
<td>Elena Alonzo, Carmelo D’Urso, Rosanna La Carrubba, Fabrizia Minciullo, Simona Santa Trillé and</td>
<td>Schoolchildren empowerment and resilience through &quot;Active Breaks&quot;</td>
<td>Domain 3</td>
<td>ORAL</td>
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<tr>
<td>00:10</td>
<td>4476</td>
<td>Ioannis Adamopoulos and Niki Syrou</td>
<td>WORKPLACE ENVIRONMENT AND BURN-OUT IN PUBLIC HEALTH WORKFORCE INSPECTION SERVICES IN GREECE DURING COVID-19</td>
<td>Domain 4</td>
<td>ORAL</td>
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CONCLUSIONS of The Domain from the chairs
**September 28th 2022**

**DAILY OPENING 9.00 - 10.00 CEST (UTC +2)**

**Chairs:** Margherita Ferrante, Gea Olivieri

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<tr>
<th>Opening Keynotes speakers and institutional guests</th>
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| **Alessandra Stefani** - Forestry Branch General Manager  
*Ministry of Agricultural and Forestry Policies*  
**Davide De Laurentis** - Deputy Commander of the Forestry Carabinieri  
**Giovanni Salerno** - Director of the Sicily "Corpo Forestale" Regione Siciliana  
**Luca Ferlito** - Commander of "Corpo Forestale" Provincia Catania |
| **Marina Romanello** - *The Lancet Countdown* |
| **Marco Ricceri** - EURISPES  
**Walter Pollina** - DASOE Regione Sicilia |
| **One-Health 22 - Partners Associations representatives**  
**Rocco Chiriaco** - Movimento Azzurro  
**Giovanni Barbagallo** - Ecosezione Frigia  
**Monica Marchese** - Plastic-free |
| "La Consulta Giovanile di Catania" Council of Youths of Catania - Piersalvo Catania, Giuseppe Melita  
Youth Students Associations - Simone Scalia |

**September 28th 2022**
Domain 4: One-health vision on environmental hazards, toxicology and epigenetics

Start :10.00 CEST (UTC+2)  End : 14.00 CEST (UTC+2)

PART 1 - Human effects on environmental hazards

Domain topics
- Toxicology and Microplastic, Dioxins
- Nanotoxicology
- Analysis and monitoring microplastic

Keynotes and Guests

h10.00 CEST (8.00 UTC)
Antonio Moreda Piñeiro. Santiago de Compostela - USC-nanoparticelle metalliche
Mohamed Banni, University of Sousse - microplastiche

Presenters Session

From 10.30 to 11.45 CEST
Chairs:
Carol Maione, Politecnico di Milano
Gea Oliveri Conti University of Catania
Chiara Copat, University of Catania
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<tr>
<td>00:10 00:05 quest</td>
<td>Filippo Vaccari, Leilei Zhang, Gianluca Giuberti, Alfina Grasso, Francesca Bandini, Pascual Garcia-Pérez, Chiara Copat, Luigi Lucini, Margherita Ferrante and Edoardo Puglisi</td>
<td>Exposure to metallic nanoparticles can modulate gut metabolome and microbiome in in-vitro digestion model</td>
<td>Domain 4</td>
<td>ORAL</td>
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<tr>
<td>00:10 00:05 quest</td>
<td>Chongshan Dai, Shusheng Tang and Zhanhui Wang</td>
<td>Cadmium triggers apoptotic and ferroptotic cell death in human L02 cells by inhibiting ATF-5-mediated mitochondrial unfolded protein response</td>
<td>Domain 4</td>
<td>NOT DECLARED</td>
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<tr>
<td>00:10 00:05 quest</td>
<td>Pauline Owiti, Rahmina Paüllete and Miriam Kinuthia</td>
<td>Local Solutions available on Marine Litter and Plastic Pollution in Lake Victoria</td>
<td>Domain 4</td>
<td>NOT DECLARED</td>
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<tr>
<td>00:10 00:05 quest</td>
<td>Ramiro Schiavo</td>
<td>New Diagnosis and Population Monitoring</td>
<td>Domain 4</td>
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<tr>
<td>00:10 00:05 quest</td>
<td>Antonio Carlo Barbera and Rosario Iacono</td>
<td>Emerging evidence on rice (Oryza sativa L.) irrigated with water contaminated by residual pharmaceutical chemicals</td>
<td>Domain 4</td>
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<tr>
<td>00:10 00:05 quest</td>
<td>Giuseppe De Marco, Margherita Ferrante, Mariachiara Galatiz, Tiziana Cappello, Gea Oliveri Conti and Maria Maisano</td>
<td>Short-term exposure to polystyrene microplastics (PS-MPs) in marine mussels: does it induce pro-oxidant and neurotoxic effects?</td>
<td>Domain 4</td>
<td>ORAL</td>
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<tr>
<td>00:10 00:05 quest</td>
<td>Ioannis Adamopoulos and Niki Syrou</td>
<td>Occupational Hazards Associated with quality and training needs in Public Health Inspectors in Greece</td>
<td>Domain 4</td>
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</table>
PART 2 - Ecosystemic effects of environmental hazards

Domain topics
- Effects on animals and fauna [fish, bovines] (biomagnification, food chain)
- Microplastic accumulation in dunes
- Exposomic
- Epigenomics (epigenetici, rumore città non controllo sul rumore)

Keynotes and Guests h 11.45 CEST (9.45 UTC)
Peter Van Hazel, ISDE International
Alberto Izzotti, Unige - epigenetica

Presenters Session
From 12.15 to 14.00 CEST
Chairs:
Margherita Ferrante, University of Catania
Paolo Lauriola, RIMSA
Alfina Grasso, University of Catania

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<tr>
<td>00:10</td>
<td>Carol Maione</td>
<td>Standard Operating Procedure for the Analysis of Microplastics in Larval Fish Diets</td>
<td>Domain 4</td>
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<td>00:10</td>
<td>Swar Abouda, Tiziana Cappello, Mohamed Banni, Maria Maisano, Omayma Missawi, Giuseppe De Marco and Iteb Boughattas</td>
<td>Impact of environmental microplastics and Benzo[a]pyrene on cellular and molecular responses of Hediste diversicolor</td>
<td>Domain 4</td>
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<td>00:05 quest</td>
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<tr>
<td>00:10</td>
<td>4559</td>
<td>Potential risks from consumption of fishes: A trace elements study in edible tissue of elasmobranchs from the Aegean Sea</td>
<td>Francesco Tiralongo, Ioannis Giovos, Maria Violetta Brundo, Nikolaos Doumpas, Sara Ignoto, Zoi Kazlari, Dimitrios Loukovitis, Dimitrios</td>
<td>4</td>
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<tr>
<td>00:10</td>
<td>6092</td>
<td>Evaluation of Microplastic in Caged Fish from Turkish and Iranian Waters with Health Risk Assessment for Human Consumers</td>
<td>Sebahattin Ergun, Arya Vazirzadeh, Murat Yigit, Sevdan Yilmaz, Murat Erdem, Bilge Erdem and Yesim Buyukates</td>
<td>4</td>
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<tr>
<td>00:10</td>
<td>7717</td>
<td>Early mechanisms of polystyrene microplastics (PS-MPs) cytotoxicity assessed in marine mussels after short-term exposure</td>
<td>Tiziana Cappello, Gea Oliveri Conti, Giuseppe De Marco, Margherita Ferrante and Angela Mauceri</td>
<td>4</td>
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**CONCLUSIONS OF THE CONFERENCE**
# POSTER SESSION

Poster Session will be held into a Virtual Room.

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<th>#</th>
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<tr>
<td>415</td>
<td>Zeinabou Maman Noura, Mamane Daou, Laminou Ibrahim Mamane, Maman Bachir Alasan Goni, Haboubacar Maman Manzo, Eric Omar Adéhossi and Boubacar Kaouge</td>
<td>Study of malaria morbi-mortality variation associated to climate change from 2010 to 2019 in Niger</td>
<td>Domain 1</td>
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<tr>
<td>906</td>
<td>Elena Maria Scalisi, Roberta Pecoraro, Antonio Salvaggio, Giuliana Impellizzeri, Maria Violetta Brundo.</td>
<td>Effects of TiO2-NPs on Gallus gallus domesticus Chorioallantoic Membrane (CAM)</td>
<td>Domain 4</td>
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<tr>
<td>1460</td>
<td>Paola Rapisarda, Antonio Cristaldi, Claudia Favara, Maria Fiore, Maria Castrogiovanni, Gea Oliveri Conti, Margherita Ferrante and Eloise Pulvirenti</td>
<td>Ecotoxicity analysis on the urban WWTPs water sam-ples for the monitoring of wastewater quality released in sea water</td>
<td>Domain 2</td>
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<tr>
<td>2520</td>
<td>Olajumoke Joseph and Olatunde Dahunsi</td>
<td>Identification of circulating non - SARS – CoV2 coronaviruses: An important tool for prevention and control of future coronavirus disease outbreaks</td>
<td>Domain 1</td>
</tr>
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<td>2808</td>
<td>Martina Contino, Greta Ferruggia, Roberta Pecoraro, Elena Maria Scalisi, Gianfranco Cavallaro, Carmela Bonacorso, Cosimo Gianluca Fortuna, Antonio Salvaggio, Fabiano Capparrucci, Teresa Bottari and Maria Violetta Brundo</td>
<td>Toxicological effects of Polystyrene nanoplastics on the early life stages of Danio rerio: an in vivo and in silico approach.</td>
<td>Domain 4</td>
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<tr>
<td>3922</td>
<td>Silvia Bonetta, Ileana Federigi, Marina Tesauro, Francesco Bagordo, Sara Bonetta, Michela Consonni, Gea Oliveri Conti, Osvalda De Giglio, Giusy Diella, Margherita Ferrante, Alfina Grasso, Manuela Macri, Maria Teresa Montagna, Marco Verani and Annalaura Carducci</td>
<td>Antimicrobial resistance in water used for human consumption: a literature review</td>
<td>Domain 1</td>
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<td>5013</td>
<td>Gabriela Fernandez, Arash Jahangiri, Sahar Ghanipoor Machiani, Ming-Hsiang Tsou, Bita Etaati and Christian Mejia</td>
<td>Pedestrian and Bicycle Safety Visualization in Chula Vista, California</td>
<td>Domain 2</td>
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<td>5127</td>
<td>Imad Krikech, Eloise Pulvirenti, Gaël Le Pennec, Mohammed Ezziyani, Gea Oliveri Conti, Margherita Ferrante and Tiziana Cappello</td>
<td>Occurrence and distribution of microplastics (≤ 10 μm) in marine sponges from the southern Mediterranean coasts</td>
<td>Domain 4</td>
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<td>5872</td>
<td>Claudia Favara, Gea Oliveri Conti, Eloise Pulvirenti, Antonio Cristaldi, Chiara Copat, Alfina</td>
<td>The ShazzAn project for the One Health approach</td>
<td>Domain 2</td>
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<tr>
<td>7216</td>
<td>Hongrui Zhao, Ileana Federigi, Marco Verani and Annalaura Carducci</td>
<td>Emerging organic pollutants adsorbed to plastic debris in marine environment: a systematic review of analytical methods, occurrence, and characteristics</td>
<td>Domain 4</td>
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<tr>
<td>7897</td>
<td>Xiaonan Wang, Kai Wen and Zhanhui Wang</td>
<td>Preparation of a broad-specificity monoclonal antibody for Aristolochic acids and development of Indirect competitive enzyme-linked immunosorbent assay in flour and soil samples</td>
<td>Domain 4</td>
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<tr>
<td>9357</td>
<td>Marina Tesauro, Michela Consonni, Giovanni Lodi and Roberto Mattina</td>
<td>Antibiotic resistance in Pseudomonas aeruginosa and Pseudomonas spp. in dental unit water (POSTER)</td>
<td>Domain 1</td>
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**STUDENT CONFERENCE AND AWARDS**

h16.00 aula 1 comparto 10 - Via S. Sofia, 87, 95123 Catania CT

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<tr>
<td>16.00 CEST (UTC+2)</td>
<td>Introduction</td>
</tr>
<tr>
<td>16.15 CEST (UTC+2)</td>
<td>Presentation of the Students associations</td>
</tr>
<tr>
<td>16.45 CEST (UTC+2)</td>
<td>The youth council “Consulta dei Giovani” of Catania</td>
</tr>
<tr>
<td>17.00 CEST (UTC+2)</td>
<td>A call for strengthening climate change education for all health professionals</td>
</tr>
<tr>
<td>17.15 CEST (UTC+2)</td>
<td>One-Health World Cafe Session</td>
</tr>
</tbody>
</table>
| 18.30 CEST (UTC+2) | Awards
Best Paper and Poster                                              |
A systemic approach to manage urban and natural resources

Organizing Partners

Supporting Partners