

08:00

13:00

Registration to the workshops  
 Registration Bureau (Hall next to the Main Hall)

## WORKSHOPS

09:00 | 13:00 (GMT-5)

### TECHNOLOGIES FOR HEALTH AND WELLNESS

Computer Lab A1

**In silico design of multi-epitope vaccines**

Lenin Javier Ramirez Cando, Ph.D

YACHAY 

### RENEWABLE ENERGIES AND INDUSTRY

Computer Lab A2

**Sizing of Off-Grid and Grid Connected Photovoltaic Systems**

Juan Carlos Lata, Ph.D.

UPS 

### SUSTAINABILITY AND ENVIRONMENT

Computer Lab A7

**Decoding Images: Exploring classification techniques for bioimages and beyond**

Hernan Andres Morales, Ph.D

UDLA 

### ARTIFICIAL INTELLIGENCE AND DIGITAL NETWORKS

Computer Lab A8

**Leveraging AI-Powered Chatbots for Educational Innovation**

Julio Proaño Orellana, Ph.D. and  
 Gustavo Navas Ruilova, Ph.D.

UPS 

13:00  
 14:00 **LUNCH** 6<sup>th</sup> Floor A2 building

## WORKSHOPS

14:00 | 18:00 (GMT-5)

### TECHNOLOGIES FOR HEALTH AND WELLNESS

Computer Lab A7

**Genomic Sequencing and Applied Bioinformatics: From the Laboratory to Practical Analysis**

Naomi Mora, M.Sc.

INSPI 

### RENEWABLE ENERGIES AND INDUSTRY

Computer Lab A8

**Multidisciplinary Evaluation of Energy Consumption in Alternative Propulsion Systems with Energy Accumulators**

Jairo Dario Castillo, Ph.D.

UNL 

### SUSTAINABILITY AND ENVIRONMENT

Auditorium 1, 2nd floor

**Nanobodies as Small Wonders Driving Therapeutic, Environmental and Research Advances**

Serge Muyldermans, Ph.D. and Rosa Vega, M.Sc.

VUB/UPS  

08:00  
13:00

Registration to the Conference  
Registration Bureau (Hall next to the MAIN HALL)

09:30  
10:00

Inaugural ceremony  
MAIN HALL

10:00  
11:00

MAIN HALL - Keynote Speech01: **Pablo Paredes Castro, Ph.D.** | **UNIVERSITY OF MARYLAND** 

11:00  
11:30

## Coffee Break Entrance hall block A

Multipurpose room 1, 3rd floor building A

G1 - 01

**Antibiotic resistance in probiotics and its potential impact on the spread of resistance genes.**

Joe Dylan Caceres Taya, Samanta Natasha Marcillo Ontaneda, Inés Echeverría Echeverría Llumipanta and Marco Orlando Fuel Herrera

UCE / UPS 

G1 - 02

**Development of a Real-Time Android Application for Brain Tumor Detection from MRI Scans.**

Bryan Chulde-Fernández, Santiago Velastegui and Jonathan Cruz-Varela

YACHAY 

RENEWABLE ENERGIES AND INDUSTRY

Multipurpose room 2, 3rd floor building A

G2 - 01

**Influence of exclusive anaerobic fermentation of cocoa on its aromatic compounds.**

Jaritzta Aracelly Mero Farias, Pamela Cristina Aguirre Esochar, Daniel Alfonso Cabrera Valle and Manoella Alejandra Sanchez Garnica

UTA 

G2 - 02

**Development and Evaluation of a Parameterized 3D Model for the Manufacturing of Rearview Mirrors using Infusion and Additive Manufacturing Processes.**

Edisson Calderón, Cristian Redroban, Roberto Ortega and Sandino Torres

EPN / ESPOCH / ISTCT 

SUSTAINABILITY AND ENVIRONMENT

Auditorium 1, 2nd floor building A

G3 - 01

**Smart Irrigation Strategy and Monitoring of Edaphological and Meteorological Variables Based on IoT.**

Alejandra Chugá and Diana Peralta

UISEK 

G3 - 02

**Establishment of pure lines of Hemileia vastatrix Berk. & Br, causal agent of coffee rust, through successive cycles under in vitro conditions.**

Adamary Vásquez-Tituana, Jorge Armijos-Rivera, Freddy Tinoco and Daniela Román-Cáceres

UNL / UJAEN 

ARTIFICIAL INTELLIGENCE AND DIGITAL NETWORKS

Auditorium 2, 2nd floor building A

G4 - 01

**Machine Learning for fault diagnosis using the MAP sensor data from an Otto Engine.**

Juan Pablo Medina Namicela and Rogelio Santiago León Japa

UNL/UJAEN  

G4 - 02

**Locomotion of a quadruped robot based on a PPO Reinforcement Learning policy.**

Gustavo Danilo Machado Merino

UTA / ESPOCH 

12:25  
13:00

Interactive Poster Session  
Hallway 2nd and 3rd floor

13:00  
14:30 **LUNCH** 6<sup>th</sup> Floor Building A

14:30  
15:30 MAIN HALL - Keynote Speech 02: **Julio Normey Rico, Ph.D.**  
"Model predictive control for energy management of renewable microgrids"

**FEDERAL UNIVERSITY  
OF SANTA CATARINA**



15:30  
16:00 **Coffee Break** Entrance hall block A

G1 - 03

**Evaluation of Fatigue, Control, and Drowsiness in Drivers of a Manufacturing Company in Ecuador.**

Kenny Escobar-Segovia, Daniela Paz-Barzola, Rómulo Villamar-Triviño and Luis Duque-Cordova

ESPOL / UPACIFICO

G1 - 04

**AINHS: An Integrative Model Based on Artificial Intelligence and Neutrosophic Statistics to Strengthen Health Literacy and Optimize Self-Care in Patients with Chronic Kidney Disease.**

Lorenzo Cevallos-Torres, Esther Lucrecia Carlin-Chávez, Ivis Yania Piovot-Hernández and María Cristina Grandal-López

UBE

G2 - 03

**Methodology for Smoothing the Altitude Profile of Urban Bus Routes in Mountainous Cities.**

Sebastián Quizhpi Salamea, Jairo Castillo-Calderón, Diego Vinicio Díaz-Sinche and Elmer Arias Montaña

UNL

G2 - 04

**The emerging relationship between Supply Chain Resilience Management and Circular Economy: A Fuzzy Cognitive Map analysis.**

Lia Cedeño-Zambrano, Antonio Xavier Zavala-Alcivar, Lindsay Rangel-Anchundia and Karen Zambrano-Roldán

ULEAM

G3 - 03

**Metagenomics for the study of microbial communities in the Madrigal Podocarpus Reserve, Loja, Ecuador.**

Daniela Román-Cáceres, Adamary Vásquez Tituana, Aura Paucar-Cabrera and Jorge Armijos-Rivera

UNL

G3 - 04

**Fatty Acid Composition, Total Phenolic Content, and Antioxidant Activity of Cayaponia capitata Seed Oil.**

Rafael Viteri, Listbeth Encalada, Gabriel Tello-Hidalgo and Xavier Cornejo

ESPOL / UCE / UG

G4 - 03

**Pneumonia Detection Using Object Detection with MobileNet and TFLite: Implementation in Android Studio.**

Pamela Espinosa Cuayal, Erick Ramiro Iles Velez, Jonathan Cruz Varela and Diego Almeida Galárraga

YACHAY

G4 - 04

**AI-Powered Web Security: A Machine Learning Framework for Detecting SQL Injection Attacks.**

Gabriela Lorena Suntaxi Ona, Andrés Palma Ponce, Edison Quimbiamba and Lorena Recalde

EPN

TECHNOLOGIES FOR HEALTH AND WELLNESS

RENEWABLE ENERGIES AND INDUSTRY

SUSTAINABILITY AND ENVIRONMENT

ARTIFICIAL INTELLIGENCE AND DIGITAL NETWORKS

16:00  
16:25

16:30  
16:55

G1 - 05

**Automated Diagnosis of Thyroid Diseases  
Using Machine Learning Models.**

Dayron Rumbaut Rangel, Ángel Echeverría  
Guzmán, Gary Xavier Reyes Zambrano and  
Rosangela Caicedo-Quiroz

UBE 

G2 - 05

**Predictive Current Control with Delay  
Compensation for 3×3 Matrix Converters.**

Alex Moreta, Julio Pérez, Kevin Reyna and  
Paúl Pozo

EPN 

G3 - 05

**Nanoencapsulation of Neem Oil via Ionic  
Gelation for Application in Food Preserva-  
tion.**

Diego Carrillo, Silvia Clavijo, Segundo  
Reyes and Luis Vazquez

ULEAM / UNCUYO / UTB  

G4 - 05

**Multi AI Agents for Solving Complex  
Business Tasks: A Case Study.**

Fabricio Crespo, Anthony Crespo,  
Claudia Moncada and Manuel Eugenio  
Morocho-Cayamcela

YACHAY 

17:00  
17:25

08:00  
13:00

Registration to the Conference  
Registration Bureau (Hall next to the MAIN HALL)

09:30  
10:30

MAIN HALL - Keynote Speech 03: **Rodrigo Franco Cruz, Ph.D.**  
"Anti-Metabolites as Novel Anti-Viral Strategies for a Sustainable Planet"

**UNIVERSITY OF  
NEBRASKA-LINCOLN**



10:30  
11:30 **Coffee Break** Entrance hall block A

Multipurpose room 1, 3rd floor building A

**G1 - 06**

**Real-Time COVID 19 Detection on X-Ray images using Object Detection and Media-Pipe.**

Nathaly Játiva, Anahi Vaca, Jonathan Cruz and Diego Almeida

**YACHAY**

**G1 - 07**

**Brain-Computer Interface and Robotic Devices for Upper- and Lower-Limb Rehabilitation of a Chronic-Stroke Patient.**

Teodiano Freire Bastos Filho, Fernanda Souza, Ana Cecilia Villa Parra and Pablo Salamea

**UFES / UPS**

Multipurpose room 2, 3rd floor building A

**G2 - 06**

**Prospective Energy Substitution Modeling: Assessing the Technical, Environmental, and Financial Feasibility of Geothermal Power in Ecuador.**

Dany Torres, Dennise Espinoza, Cristian Cuji and Evgenija Uzunova

**UPS / MPEI**

**G2 - 07**

**Comparative Analysis of FC and PINN Architectures in Solar Panel Power Estimation.**

Francis-Nicole Benitez-Montalvo, Pablo-Andrés Buestán-Andrade and Nathalia-Michelle Peralta-Vasconez

**UCACUE**

Auditorium 1, 2nd floor building A

**G3 - 06**

**Bio-based approach for paraquat removal: Silver nanoparticle-functionalized cellulose extracted from yerba mate waste.**

Cintya Gordon-Falconí, Alejandra Gómez Cuartas, María Florencia Iannone and María Daniela Groppe

**PUCESI / UBA**

**G3 - 07**

**What is the cost of going green? A hybrid model applied to climate change policies.**

Pedro Castro-Verdezoto, Marcelo Pereira Da Cunha and Andrés Benito

**UNICAMP / UTN**

Auditorium 2, 2nd floor building A

**G4 - 06**

**Reframing Academic Engagement: AI-Driven Mobile Applications as Cognitive Interfaces in Digitally Net-worked Higher Education.**

Monica Maldonado Espinosa and Clara Elena Robayo Valencia

**UNL / UTA**

**G4 - 07**

**Generative Artificial Intelligence-Based Efficient Airfoil Design Employing a 3-GAN.**

Gabriel de Jesus Celis-Escudero, Carlos Avilés-Cruz, Arturo Zúñiga-López and Cesar Benavides-Alvarez

**UAM**

TECHNOLOGIES FOR HEALTH AND WELLNESS

RENEWABLE ENERGIES AND INDUSTRY

SUSTAINABILITY AND ENVIRONMENT

ARTIFICIAL INTELLIGENCE AND DIGITAL NETWORKS

11:30  
11:55

12:00  
12:25

12:25  
13:00

Interactive Poster Session  
Hallway 2nd and 3rd floor

13:00  
14:30 **LUNCH** 6<sup>th</sup> Floor Building A

G1 - 08

**Automated Diagnosis of Diabetic Retinopathy and Age-Related Macular Degeneration from Fundus Images.**

Andres Eduardo Ponce Macas, Iván Reyes, Paulina Vizcaino and Manuel Eugenio Morocho-Cayamcela

YACHAI / UIDE 

G1 - 09

**Semantic Segmentation for the Detection of Trypanosoma cruzi in Microscopic Blood Images Using Random Forests and Data Augmentation.**

Richard Sucuy, Wilmer Rivas, Bertha Mazon-Olivo and Eduardo Tusa

UTMACH 

G2 - 08

**Factorial Analysis and Optimization of Temperature and Sodium Bicarbonate Effects on the Hydration of Red and White Beans for Canning.**

Juan Gabriel Mollocana Lara, Anderson Steve Caranqui Chanalata and Katiuska Jajaira Obando Proaño

UPS 

G2 - 09

**Performance Assessment of Mother Wavelets for Compression and Reconstruction of Transient Electrical Signals.**

Milton Ruiz, Jonathan Vasco, Diego Carrion and Marcelo Garcia

UPS 

G3 - 08

**Critical Analysis of the Shear Stress Formula in the Ecuadorian Bamboo Construction Code: Error Identification and Technical Recommendations.**

Angel Chicaiza, Sara Ochoa, Luis Enrique Chávez-Rubio and Melissa Sánchez

IKIAM / UTA 

G3 - 09

**Short-Term Financial Management Tool applied in administrative-financial management for sustainability in the small shrimp industry.**

Milton Paredes-Aguirre, Edgar Briones-Bitar, Josué Briones-Bitar and Paúl Carrión-Mero

IKIAM / UTA  

G4 - 08

**ColpoNet: A Novel Nested proposal CNN-based for Cervical Lesion Segmentation and Classification Using U-Net and Detectron2.**

Ramiro Israel Vivanco Gualán, Yuliana Jiménez-Gaona, Darwin Castillo-Malla, Bernardo Jose Vega Crespo and Veronique Verhoeven

UTPL / UCUENCA / UANTWERPEN 

G4 - 09

**Research Landscape of AI and Intelligent Tutoring Systems in Ecuadorian Universities.**

Juan Pablo López, Alfonso González Briones, Jorge Mina Ortega and Javier Montalvo

UPEC / USAL  

15:30  
15:55 **Coffee Break** Entrance hall block A

## CITIS Tech Experience

### Multipurpose room 1, 3rd floor building A

**E1 - 01**

**Narvaez Soluciones  
Integrales.**

Exhibitors: William Narvaez

**GERENTE GENERAL**

**E1 - 02**

**Siemens**

Exhibitors: Amelia Peña

**PARTNER MANAGER**

**E1 - 03**

**CITEC - Cámara de Innovación y  
Tecnología Ecuatoriana**

Exhibitors: Marcelo Rojas

**DIRECTOR GUAYAQUIL**

**E1 - 04**

**Prodidec**

Exhibitors: Ma. Elena Tinoco

**CO - FUNDADORA**

### Multipurpose room 2, 3rd floor building A

**E2 - 01**

**Agrorum**

Exhibitors: Cèsar Ponce Zurita

**CEO**

**E2 - 02**

**TAYULABS**

Exhibitors: Christian Tayupanta

**CEO**

**E2 - 03**

**VEOLIA**

Exhibitors: DIANA QUINTANA

**GERENTE RRHH**

**E2 - 04**

**Young Living Farms Ecuador**

Exhibitors: Susana Llivisaca

**INVESTIGADORA**

### Auditorium 1, 2nd floor building A

**E3 - 01**

**Tecnoescala**

Exhibitors: Alfredo Espinosa Borrero

**GERENTE GENERAL**

**E3 - 03**

**EPICO**

Exhibitors: Mauricio Becerra Estrella

**DIRECTOR DATOS  
ABIERTOS**

**E3 - 02**

**Sylvania lightning**

Exhibitors: Diana Real

**GERENTE DE VENTAS Y  
MARKETING**

### Auditorium 2, 2nd floor building A

**E4 - 01**

**Gustavo Venegas  
Representaciones.**

Exhibitors: Gustavo Venegas

**GERENTE GENERAL**

**E4 - 02**

**Scaling Up  
Consulting**

Exhibitors: Hector Mendoza V.

**CO - FOUNDER**

**E4 - 03**

**Marine  
Instruments.**

Exhibitors: Hugo Belerdas.

**DIRECTOR ACUICULTURA**

18:00  
20:00

**Guayaquil Networking Gala**  
6th floor rooftop



08:00

13:00

Registration to the Conference

Registration Bureau (Hall next to the MAIN HALL)

## Technical Track

09:00  
09:25

TECHNOLOGIES FOR HEALTH AND WELLNESS

Multipurpose room 1, 3rd floor building A

G1 - 10

**Study of ergonomic risks and quality of life of women manicurists in informal work.**

Maye Catalina Neira Cárdenas, Julie Astrid Solano Pérez and Albeiro Aguilar Olivera

UNMINUTO 

G1 - 11

**Moral Rebels and Self-Affirmation: Exploring Attitudinal Effects in a Blocked Experimental Design.**

Jimmy Riojas, Saul Pumapillo Gomez, Fernando Huayta Quispe and Luz Zegovia Santos

UPN / UPC / UNAP / UDH 

RENEWABLE ENERGIES AND INDUSTRY

Multipurpose room 2, 3rd floor building A

G2 - 10

**Short-Term Wind Energy Prediction Based on Machine Learning Technique.**

Bryan David Llerena Ortiz, Jessica Nataly Castillo Fiallos and Luigi Orlando Freire Martinez

UPEC / USAL  

G2 - 11

**Paris Agreement, Energy Intensity and Climate Change Mitigation: Evidence for Latin American Countries.**

Segundo F. Vilema-Escudero, Cinthya Game-Varas, Juan Carlos Lata and Mirian Solis-Ramón

ECOTEC / UEES / UPS / UCSG 

SUSTAINABILITY AND ENVIRONMENT

Auditorium 1, 2nd floor building A

G3 - 10

**Structural improvement of adobe units using cactus plant liquid mucilage.**

Sleyther Arturo De La Cruz Vega, Doris Lina Huaman Baldeon, Juana Maribel Lavado Enriquez, Ccori Siello Vega Neyra and Andres Alejandro Samanamud Diaz

CESAR VALLEJO 

G3 - 11

**Optimizing Reuse Cycles for Glass and PET Bottles: A Comparative Life Cycle Assessment Addressing Recycled Content Variability and Consumer Behavior in Ecuador.**

Lenin Ramirez-Cando, Yuliana Mora-Ochoa, Raul Davalos and Lorenzo Guerrini

YACHAY / KAUST / UNIPD   

ARTIFICIAL INTELLIGENCE AND DIGITAL NETWORKS

Auditorium 2, 2nd floor building A

G4 - 10

**Optimal design for closed loop input-output: a study case of an experimental aircraft flutter.**

Wang Jianhong, Ricardo A. Ramirez-Mendoza and Julian C. Pena-Bermudez

JIANGXI / TECN / UNICARIBE   

G4 - 11

**Navigation of a UGV for tomato crops in greenhouses using DRL.**

Juan Rada, Carlos Borrás and Carlos Flórez

UIS 

09:30  
09:55

10:00  
10:25

TECHNOLOGIES FOR HEALTH AND WELLNESS

Multipurpose room 1, 3rd floor building A

G1 - 12

**Postural and Anthropometric Risk Factors for Musculoskeletal Disorders in University**

Thalía San Antonio, Alejandra Lascano, David Guevara and Oscar Analuiza

UTA 

RENEWABLE ENERGIES AND INDUSTRY

Multipurpose room 2, 3rd floor building A

G2 - 12

**Taxonomic Characterization of Yeasts from Joyapa (*Macleania rupestris*) with Fermentative Potential**

Myriam Mancheno and Guissella Rivera  
UPS-ECUADOR

UPS 

SUSTAINABILITY AND ENVIRONMENT

Auditorium 1, 2nd floor building A

G3 - 12

**Mathematical models to describe the growth of *Leucoptera sinuella* (Reutii) (Lepidoptera: Lyonetiidae) larvae in a mediterranean climate of central Chile.**

Sebastián Gonzalo Yáñez Segovia, Ignacio Chamorro Warnken, Leticia Elena Silvestre and María José Lovato Fortun

UACH / YAINNOVA / AGROIMPULSA   

ARTIFICIAL INTELLIGENCE AND DIGITAL NETWORKS

Auditorium 2, 2nd floor building A

G4 - 12

**Application of Classical NLP Techniques for Toxic Comment Analysis: A Lightweight Alternative to Deep Learning Models.**

Alexandra Veloz, Johanna Dueñas, Renato Valle and Fabián Rivera

UEB 

10:30  
10:55

**Interactive Poster Session**  
Hallway 2nd and 3rd floor

11:00  
11:30

**Coffee Break** Entrance hall block A

11:30  
12:30

MAIN HALL - Keynote Speech04: **Serge Muyldermans, Ph.D.**  
**"Llama derived Nanobodies in technological health applications"**

**FREE UNIVERSITY OF BRUSSELS**



12:30  
13:30

**Closing ceremony - MAIN HALL**

## Technical Track June 04 - Wednesday 2025

6th floor building A2

12:25  
13:00

RENEWABLE ENERGIES AND INDUSTRY

P2-01

**Optimal Integration of Renewable Energy Sources for Decarbonization in San Cristóbal Island, Galápagos.**

Paul Masache, Washington Freire, Francisco Quinteros and Estefania Vaca

ESPE / UPS / UESLG 

P2-01

**Fuzzy Control for the Optimization of Hydroponic Crop Growth.**

Santiago Aguilar, Dennis Achusim, Diego Camino and Kennet Morillo

UPS 

P2-01

**Predictive Model for Energy Management in Solar Microgrids.**

Anderson Rivera, Rommel Torres y Marcelo Dávila

UTPL 

P2-01

**Assessment of the TOD Index at Quito Metro Stations: Cardenal de la Torre, La Magdalena, El Ejido, and La Alameda.**

Julio Vega and Verónica Guerrero

UPS 

P2-01

**Impacto de la velocidad de circulación en el consumo de combustible en el Distrito Metropolitano de Quito.**

Quinchimbla Pisuña Freddy Eduardo , Pachacama Nasimba Victor Patricio , Solis Santamaria Javier Milton and Velasco Ulco Victor Manuel

ISTER / ISTCV / ESPOCH  

P2-01

**Comparison of Heuristic Techniques Based on Organisms and Particles for Solving the Multi-Objective Optimal Power Flow Problem.**

David Ayabaca, Santiago Moscoso, Carlos Orellana and Jaime Rojas

UCACUE 

P2-01

**Numerical Study of Temperature Wear Inside the Gun Tube.**

Fernando Toapanta-Ramos, Mibert A. Beltrán, Leonardo Bohórquez and William Díaz

UPS 

P4-01

**Entre la palabra y la idea: fortaleciendo la escritura académica y la competencia investigadora en tiempos digitales con apoyo de la Inteligencia Artificial (IA).**

Junior Elio López Jiménez

UTPL / UPS 

P4-01

**Design and implementation of fire alarm monitoring system for the Salesian Polytechnic University, Cuenca Campus.**

Diego Paul Chacon Troya and Andrea Lorena Andrea L. Mogrovejo-Macias

UPS 

P4-01

**Towards Data-Driven Higher Education: Designing a Learning Analytics Model with Big Data Architecture.**

Joe Carrion-Jumbo, Rosángelos Carrión Flores, Verónica Beltrán and Ruth Sánchez

UISEK 

ARTIFICIAL INTELLIGENCE AND DIGITAL NETWORKS

## Technical Track June 05 - Thursday 2025

6th floor building A2

12:25  
13:00

TECHNOLOGIES FOR HEALTH AND WELLNESS

P2-02

**Evaluación del riesgo por exposición a disruptores endocrinos en cosméticos: Análisis mediante cromatografía líquida y revisión normativa.**

Maria Elisa Jara Lafebre and Karla Daniela Ojeda Farias

UPS 

P2-02

**Determinación de rangos de movimientos de la articulación escapulohumeral por test goniométrico.**

Alicia Margoth Unda Vernelle, Luis Eduardo Santaella Palma and Shirley Ivana Pizarro Soza

UPS 

P2-02

**Assisted Knee Prosthesis Redesign for Transfemoral Amputation with Fuzzy Control Integration.**

Hector Avilés, Angel Eugenio Cárdenas, Christian Cobos and Alan Rodriguez

UPS 

SUSTAINABILITY AND ENVIRONMENT

P3-02

**Evaluación in-vitro de la actividad antifúngica y citotóxica de los componentes químicos del aceite esencial de "Warmi poleo" o Clinopodium brownei (Sw.) Kuntze.**

Stefanie Cisneros, Lady Mendoza, Ema Rivera and Edison Osorio

UPS 

P3-02

**Caracterización química y estudio de la actividad antifúngica y citotóxica del aceite esencial de partes aéreas de Clinopodium tomentosum Kunth Govaerts. (tiglán).**

Alejandra Camila Guerrón Loza, María Daniela Pérez Cruz and Edison Antonio Osorio

UPS 

P3-02

**Exploring bioelectricity generation using Acetobacter aceti in microbial fuel cells.**

Kevin Huilcarema-Enríquez, Samuel Valle Asan and Martín Villalva Vera

UNEMI 

P3-02

**Variabilidad de la Actividad Antioxidante en Especies del Género Piper: Estudio Experimental y Enfoque Sistémico.**

Andrea Domenica Brito Jaya, Naydhelyn Janahina Cabezas Vásquez, Ariel Andrés Soledispa Arias and Nelly Lorena Pulgar Oleas

UPS 

P3-02

**Growth Performance of Ecuadorian Potato Using IoT and Sensors in Aeroponics System.**

Diana Peralta Zurita, Mathias Aguilar Polit, Jaime Molina and Marcelo Garcia Sanchez

UISEK / UTA 

P3-02

**Optimización de la gelificación iónica en la nanoencapsulación de aceite de neem (Azadirachta indica): Evaluación de estabilidad, rendimiento y estructura molecular.**

Diego Carrillo Freire, Silvia Clavijo Vásquez and Segundo Reyes Solorzano

ULEAM / UNCUIYO 

P3-02

**Optimized Culture Protocol of Acanthamoeba castellanii for Giant Virus Isolation.**

Daniela Román-Cáceres, Paula S. Costa-Sarmiento, Adamary Vasquez-Ti-tuana and Jorge I. Armijos-Rivera

UNL 

## Technical Track June 06 - Friday 2025

6th floor building A2

10:30  
10:55

TECHNOLOGIES FOR HEALTH AND WELLNESS

P1-03

**A comparison of four protocols of the DNA extraction of ascomycetes, genus Xylaria.**

Bryan Parco, Daniela Álvarez, Viviana Chiluisa and Pamela Loján

UPS / INABIO 

P1-03

**Effectiveness of Virtual Reality as a Therapeutic Tool for Vestibular Disorders: A PRISMA Systematic Review.**

Segundo Aguilera

MSP 

P1-03

**Development and Evaluation of a Low-Cost Device for Monitoring Cardiovascular Response to Stress.**

Viviana Alexandra Cortez Morán and Milton Ruiz

UPS 

SUSTAINABILITY AND ENVIRONMENT

P3-03

**Biodiversity conservation and ancestral knowledge: Micropropagation of Tzimbaló (Solanum caripense) for sustainable entrepreneurship, Pintag-Ecuador. Mishe.**

Silvia Noroña, Katty Coral and Misheel Carrera

UISEK 

P3-03

**Innovative Materials in Sustainable Construction: A Bibliometric Analysis.**

Carlos Vicente Llerena Aguilar, Yelinel Sarmiento, Cynthia Papue and Pedro Cango

IKIAM 

P3-03

**Biotechnological applications through treatment with the microalgae Spirulina platensis for the remediation of swine effluents in Ecuador.**

Karelys Leon-Rodriguez, Luis Dominguez-Granda, Bjorge Decostere and Suanny Mosquera-Romero

ESPOL / HOGENT  

P3-03

**Analysis of the storage system and management of obsolescence of spare parts as an environmental mitigation strategy in the warehouse of a dealership.**

Vinicio Peralvo, William Quitiaquez, Erika Pilataxi and Patricio Quitiaquez

UPS 

P3-03

**Aislamiento de bacterias aerobias con potencial para la producción de enzimas proteolíticas en la ciudad de Bucay.**

Karla Garcés, Mauricio Mosquera and Juan Manuel Cevallos

EPN/ESPOL 

P3-03

**Behavior and evolution in the global coffee market.**

Pablo Rituay, Daily Rocío La Torre Camán, Francisco Javier Arias Vargas and Jonathan-Alberto Campos Trigos

UNTRM / UDEMEDELLIN  

P3-03

**Efectividad de la zeolita natural, para la reducción de dureza en aguas subterráneas, en el cantón milagro provincia del Guayas.**

Mario Marquez Gallegos, Karina Subia, Diego Ramirez and Juan Trivino

UG 