

IX WALLACE SCIENTIFIC CONFERENCE

One Health
Una Sola Salud



IX Wallace Scientific Conference Program

 March - Marzo
3-5, 2026

 CATIE, Turrialba,
Costa Rica

Day 1

Time	Topic
9:00 a.m.	Registration and Inauguration
9:30–10:15 a.m.	Opening session: Scaling up healthy science-based pathways for climate-resilient agri-food systems Keynote speaker: Dr. Muhammad Ibrahim <i>Instituto Interamericano de Cooperación para la Agricultura (IICA)</i>
10:15–10:30 a.m.	Coffee break and group photo
10:30–11:15 a.m.	Health in the context of the nature and climate crisis; a central focal point of the agenda and why it matters Keynote speaker: Professor Tahseen Jafry <i>Glasgow Caledonian University, UK</i>
11:15–11:30 a.m.	Wild cats as an instrument of progress and improvement of the livelihoods of livestock families that coexist with them (Corrales-Gutierrez, D.; Muñoz-Viquez, E.; Salom-Pérez, R.) <i>Panthera, Costa Rica</i>
11:30–11:45 a.m.	Safe roads for all: reducing wildlife vehicle collisions and ecosystem fragmentation in Costa Rica (Araya-Gamboa, D.; Araya-Jiménez, E.; Salom-Pérez, R.) <i>Panthera, Costa Rica</i>
11:45–12:00 m.d.	Biodiversity credits as incentives to promote agroforestry in human-dominated landscapes (Montagnini, F.; Levin, B.; Eibl, B.; Piotta, D.; Paudel, S.; Song, J.) <i>School of the Environment, Yale University, USA</i> <i>Dietrick Institute for Applied Insect Ecology, USA</i> <i>National University of Misiones, Argentina</i> <i>Universidade Federal do Sul da Bahia, Itabuna, Brazil</i> <i>bioSEA, Singapore</i>
12:00–12:15 p.m.	An analysis of monitoring frameworks for biodiversity payments in agroforestry systems (McKittrick, D.; Montagnini, F.) <i>Yale School of the Environment, USA</i>
12:15–1:30 p.m.	Lunch
1:30–2:15 p.m.	Microbial resistance, food safety innovation and decision support for tropical agriculture Keynote speaker: Dr. Richard Sikora <i>University of Bonn, Germany</i>
2:15–3:00 p.m.	Soil health and sustainable agriculture Keynote speaker: Dr. Aurelio Ciancio <i>Istituto per la Protezione Sostenibile delle Piante, Bari, ITALY</i>
3:00–3:15 p.m.	Living Soils Initiative from IICA (Mello, F.) <i>Instituto Interamericano de Cooperación para la Agricultura (IICA)</i>
3:15–3:30 p.m.	Carbon balance in regenerative livestock systems of the Paraguayan Chaco: toward a One Health perspective (Vega, A.; Sanabria, J.P.; Sepúlveda, C.; Benegas, L.) <i>Centro Agronómico Tropical de Investigación y Enseñanza (CATIE)</i> <i>Asociación Agropecuaria de Agua Dulce, Paraguay</i>
3:30–3:45 p.m.	Coffee break

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Time	Topic
4:00–4:15 p.m.	Animal health: findings and contributions toward the One Health approach Keynote speaker: Dr. Eric Etter French Agricultural Research Centre for International Development (CIRAD)
4:15–4:30 p.m.	Relationship between technological level and greenhouse gas emissions in livestock farms of Panama and the Dominican Republic (Villanueva, C.; Guatusmal, C.; Domínguez, Y.; Vega, A.; Sepúlveda, C.) <i>Centro Agronómico Tropical de Investigación y Enseñanza (CATIE)</i>
4:30–4:45 p.m.	Standardisation of parasitological and molecular techniques for the detection and characterisation of <i>Toxocara</i> sp. (Vethencourt Ysea, M.A.; Rivera-Olivero, I.A.; Vargas Barrantes, D.F.; Mejía Contreras, J.; Romero Guerrero, A.G.) <i>Universidad Latina de Costa Rica, Costa Rica</i> <i>Universidad de las Américas, Ecuador</i> <i>Intituto Tecnológico de Costa Rica, Costa Rica</i>
4:45–5:20 p.m.	Poster session – Day 1 <i>Agriculture–conservation transition zones: role in conserving endangered species</i> (Iñamagua-Uyaguari, J.P.; Albarracín-Lozano, J.J.; Estrella-Bermeo, C.A.; Torres-Llanos, S.D.; Payo-Payo, A.) <i>Universidad de Cuenca, Ecuador</i> <i>Universidad Complutense de Madrid, España</i> <i>Universidad de Salamanca, España</i> <i>The invisible threat: potential transmission of diseases to small cats in Costa Rica's cloud forests</i> (Ramírez-Fernández, J.D.; Montero Leitón, N.; Jiménez-Gómez, R.; Barboza Jiménez, C.; Bernal-Valle, S.; Delgado-Carazo, J.C.) <i>OneHealth Costa Rica Alliance, Heredia, Costa Rica</i> <i>Centro Nacional de Innovaciones Biotecnológicas (CENIBiot), Costa Rica</i> <i>Centro Nacional de Alta Tecnología (CENAT-CONARE), Costa Rica</i> <i>Bioinputs and circular economy in resilient agroecosystems: evaluating Gold Green biofertilizer in Phoenix spp. and its role in enhancing soil health</i> (Ortiz, V.; Sanabria, J.P.) <i>Green Beauty, SA, Costa Rica</i> <i>Selection of the optimal host plant for mycorrhizal multiplication in Napo</i> (Analuisa, N.; Sánchez, F.) <i>Universidad Regional Amazónica Ikiam, Ecuador</i> <i>Physicochemical characterization of soils where Theobroma bicolor grows in Tena, Napo</i> (Panta Solórzano, P.A.) <i>Universidad Regional Amazónica Ikiam, Ecuador</i> <i>Sporulation stimulation in trap crops with biochar to obtain substrates enriched with arbuscular mycorrhizae</i> (Huatatoca, S.; Sánchez, F.) <i>Universidad Regional Amazónica Ikiam, Ecuador</i>



Day 2

Time	Topic
8:00–8:45 a.m.	Plant health and ecotoxicological approaches Keynote speaker: Dr. Carsten Brühl <i>Rheinland-Pfälzische Technische Universität Kaiserslautern-Landau, Germany</i>
8:45–9:00 a.m.	ECOFFEE Initiative: Public and private sectors joining forces for reducing pesticide use in coffee production (Villain, L.; Avelino, J.; Lecomte, C.; Barreto, R.; Patault, B.; Saavedra, L.; Cheriére, T.; Ghneim Herrera, T.; Baufumé, S.; Moura, A.; Machado, F.; Etienne, H.; Rigal, C.) <i>CIRAD-CATIE, Costa Rica</i> <i>CIRAD, Francia</i> <i>CIRAD-CATIE, Panama</i> <i>UFV, Brazil</i>
9:00–9:15 a.m.	Evaluation and epidemiological understanding of the efficacy of new agroecological practices to manage black leaf streak disease of banana (Abadie, C.; Guillén, M.J.; Corrales, E.; Villa Escobar, C.; Arias, A.; Naudin, L.; Salmon, F.; Muschler, R.) <i>CIRAD-PHIM, Costa Rica; CATIE, Costa Rica; CIRAD-AGAP, Guadeloupe</i>
9:15–9:30 a.m.	Evaluation of trapping methods for insect pests associated with soursop (<i>Annona muricata</i>) cultivation in ASOPROINCAM, Ahuano, Tena, Napo (Jurado, M.; Moncayo, L.) <i>Universidad Regional Amazónica Ikiam, Ecuador</i>
9:30–9:45 a.m.	Evaluation of the push–pull method for the control of <i>Spodoptera frugiperda</i> in maize in Tena, Ecuador (Castillo, C.; Moncayo, L.; Sánchez, J.) <i>Universidad Regional Amazónica Ikiam, Ecuador</i>
9:45–10:00 a.m.	Adaptation of three production systems of two vanilla species (<i>Vanilla odorata</i> and <i>V. tahitensis</i>) in the Ecuadorian Amazon (Hinojosa, T.; Carrasco, R.; Sánchez, J.) <i>Universidad Regional Amazónica Ikiam, Ecuador</i>
10:00–10:15 a.m.	Coffee break
10:15–10:45 a.m.	One Water for One Health Keynote speaker: Dr. María Arias <i>Regional Institute for Studies on Toxic Substances (IRET) at the National University of Costa Rica</i>
10:45–11:00 a.m.	Integrated assessment of the Durazno River watershed: a comprehensive study (Fuentes-Schweizer, P.; Iriás, A.; Gómez, E.; Halabi, P.; Barahona, M.; Montiel, J.R.; Morales, E.; Rivera, L.; Mendoza, B.; Chacón Jiménez, L.; Barrantes-Jiménez, K.) <i>Escuela de Química, Universidad de Costa Rica, Costa Rica</i> <i>Centro de Investigación en Electroquímica y Energía Química, Universidad de Costa Rica, Costa Rica</i> <i>Centro de Investigación en Granos y Semillas, Universidad de Costa Rica, Costa Rica</i> <i>Centro de Investigaciones en Ciencias del Mar y Limnología, Universidad de Costa Rica, Costa Rica</i> <i>Escuela de Ciencias de la Comunicación Colectiva, Universidad de Costa Rica, Costa Rica</i> <i>Escuela Centroamericana de Geología, Universidad de Costa Rica, Costa Rica</i> <i>Instituto de Investigaciones en Salud, Universidad de Costa Rica, Costa Rica</i> <i>Escuela de Tecnologías en Salud, Universidad de Costa Rica, Costa Rica</i>
11:00–11:15 a.m.	Hydro-climatic risk and vulnerability mapping of ASADA-managed watersheds in Costa Rica to strengthen local resilience and soil–water security (Watler, W.; Velásquez, S.; Cascante, S.; Benegas, L.) <i>Centro Agronómico Tropical de Investigación y Enseñanza (CATIE)</i> <i>Centro de Derecho Ambiental y los Recursos Naturales (CEDARENA)</i>



Day 2

Time	Topic
11:15–11:30 a.m.	Wetlands as One Health pillars: climate adaptation pathways and inclusive governance for resilient socio-ecological systems (Glińska-Lewczuk, K.; Grzybowski, M.; Burandt, P.) <i>University of Warmia and Mazury in Olsztyn, Poland</i>
11:30–11:45 a.m.	Transforming community water governance in Ecuador: partnerships, gender & livelihoods (Vásquez, F.; Aguilera, C.; Santacruz, I.) <i>Engineers in Action Foundation – Ecuador (FIEA), Ecuador</i>
11:45–12:00 m.d.	Academic contribution to public policy: opportunities to integrate One Health in watersheds of Paraguay (Romero, A.; Benegas, L.; Fiore, F.) <i>Facultad de Ciencias Agrarias, Universidad Nacional de Asunción, Paraguay</i> <i>Centro Agronómico Tropical de Investigación y Enseñanza (CATIE)</i> <i>Ministerio del Ambiente, Paraguay</i>
12:00–12:15 p.m.	Reduction of environmental impacts through the valorization of coffee by-products in Gaitania (Planadas, Tolima, Colombia) (Gamboa, H.; Rivillas, C.) <i>Instituto Interamericano de Cooperación para la Agricultura (IICA)</i>
12:15–1:30 p.m.	Lunch
1:30–2:45 p.m.	One Health and smart agriculture for a resilient planet Keynote speakers: Drs. Alain Ratnadass & Paula Fernandes <i>French Agricultural Research Centre for International Development (CIRAD)</i>
2:45–3:00 p.m.	FAO's One Health Initiative for Mesoamerica (Dr. Raixa Llauger) <i>Food and Agriculture Organization (FAO)</i>
3:00–3:15 p.m.	Question bank on food and nutrition security: a starting point for decision-making (Say Chávez, E.R.; López Payés, J.) <i>Centro Agronómico Tropical de Investigación y Enseñanza (CATIE)</i>
3:15–3:30 p.m.	Cultural, ecological and nutritional assessment of native plants to strengthen food security in Mesoamerica (López-Maatamba, L.) <i>Instituto de Nutrición de Centro América y Panamá (INCAP)</i>
3:30–3:45 p.m.	Nature-based solutions with potential co-benefits for addressing climate change and antimicrobial resistance: a scoping review (Rukomeza, G.; Lewycka, S.; Hoang Ngo, H.; Skrinjaric, T.; Imbach, P.) <i>Centre for Tropical Medicine and Global Health, Nuffield Department of Medicine, University of Oxford, UK</i> <i>Oxford University Clinical Research Unit, Hanoi, Vietnam</i> <i>Centro Agronómico Tropical de Investigación y Enseñanza (CATIE)</i>
3:45–4:00 p.m.	Integrated surveillance of antimicrobial resistance in the agrifood chain (Calderón Suárez, E.) <i>Instituto Interamericano de Cooperación para la Agricultura (IICA)</i>
4:00–4:15 p.m.	Coffee break



Day 2

Time	Topic
4:15–4:30 p.m.	Poster session – Day 2 <i>Enhancing toxicological assessment with backscattered-electron ultrastructural imaging: insights from a microplastic toxicity study</i> (Lewczuk, B.; Szyryńska, N.; Gałęcka, I.) <i>Faculty of Veterinary Medicine, University of Warmia and Mazury in Olsztyn, Poland</i>
	<i>Coffee processing by-products: production and economic valorization in the Trifinio region</i> (Fernández-Pérez, S.E.; Rajan, K.; Rodríguez, L.; Mercado, L.) <i>Centro Agronómico Tropical de Investigación y Enseñanza (CATIE)</i> <i>Texas Tech University, USA</i>
	<i>Scientific research on nature-based solutions for water management in banana, plantain, and pineapple</i> (Gamboa-Agüero, M.; Benegas-Negri, L.; Gómez-Castillo, D.) <i>Universidad de Costa Rica (UCR), Costa Rica</i> <i>Centro Agronómico Tropical de Investigación y Enseñanza (CATIE)</i>
	<i>Evaluating the impact of land use and crop management under the “One Health” framework</i> (Abadie, C.; Araya, E.; Arias, M.; Benegas, L.; Cerda, R.; Chaves, A.; Martínez, A.; Muschler, R.; Rhoné, B.; Servent, A.; Soto, M.; Vílchez, S.; Villain, L.; Cheriére, T.) <i>CATIE, Costa Rica</i> <i>CIRAD, France</i> <i>CENIBIOT-CENAT, Costa Rica</i> <i>CITA-UCR, Costa Rica</i>
	<i>Nitrogen dynamics with <i>Arachis pinto</i> in cocoa agroforestry systems in Altotena, Napo, Ecuador</i> (Maldonado, G.; Sánchez, F.) <i>Universidad Regional Amazónica Ikiam, Ecuador</i>



Day 3

Time	Topic
8:00–8:45 a.m.	<i>Climate justice, governance, inclusion and equity: transversal issues to effectively implement the One Health approach</i> Keynote speaker: Prof. Tasheen Jafry <i>Glasgow Caledonian University, UK</i>
8:45–9:00 a.m.	Reconciling the dual worldviews of ancient wisdom and modernity: collaborative-learning implications for future discourse (Orcherton Dan F.) <i>University of Fiji, Fiji Islands</i>
8:45–9:00 a.m.	From ideal to real: attitudes towards lifestyle changes (Evia Salas, P.E.; Harring, N.; Thong, Q.; Wadehra, S.; Madrigal-Ballesteros, R.; Alpizar, F.; Löfgren, Å.; Jagers, S.; Boräng, F.) <i>Centro Agronómico Tropical de Investigación y Enseñanza (CATIE)</i> <i>University of Gothenburg</i> <i>Ho Chi Minh City University of Economics</i> <i>University of Petroleum and Energy Studies, Dehradun</i> <i>Wageningen University & Research</i>
9:00–9:15 a.m.	Bridging cultures in distance education: a confluence of critical pedagogy of place and Indigenous education philosophy (case-study reference in Fiji and Vanuatu) (Orcherton Dan F.) <i>University of Fiji, Fiji Islands</i>
9:15–9:30 a.m.	Back to the source: governance and socio-ecological restoration for water and agricultural security (Sanjuán, M.) <i>Programa de Conservación y Restauración del río Lempa, El Salvador</i>
9:30–9:45 a.m.	IICA's Bioeconomy Initiative (IICA representative) <i>Instituto Interamericano de Cooperación para la Agricultura (IICA)</i>
9:45–10:00 a.m.	Coffee break
10:00 a.m.–12:00 m.d.	Panel on strategic alliances, intersectorality and financing to operationalise the One Health approach (representatives from IICA, FAO, CAF) <i>Instituto Interamericano de Cooperación para la Agricultura (IICA)</i> <i>Food and Agriculture Organization (FAO)</i> <i>Banco de Desarrollo de América Latina y El Caribe</i>
12:00–4:00 p.m.	Field trip: CATIE's experiences in One Health

The agenda is current at the time of publication. Any refinements will be shared in advance, and the most up-to-date version will be available through our official channels.