



PRELIMINARY PROGRAMME: SPEAKERS & EVENTS

LISBON | 4 - 8 NOVEMBER 2024



UNIVERSIDADE
DE LISBOA



CTROP
Colégio Tropical



Com o Alto Patrocínio
de Sua Excelência
Under the High Patronage of the
President of the Portuguese Republic



O Presidente da República



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XXIV GOVERNO



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CONCEPT

The numerous unfulfilled global agendas underscore the urgency of viewing the 2030 deadline not as a distant point on the horizon, but as an imminent and pressing reality — demanding immediate attention, as though it were tomorrow.

The **Tropical Summit** is a deliberate gathering of individuals committed to reassessing the *status quo* and developing sustainable and equitable solutions to address these persistent and systemic challenges. These solutions require an urgent yet distinctive forum—one broad enough to tackle the issues but agile and insightful enough to leverage the potential of the tropics. Half-hearted, piecemeal, or superficial strategies are no longer viable options. This is a call to galvanize the brightest and most motivated minds to craft pragmatic, winning solutions for the tropics—solutions that are globally networked and translated into measurable, on-the-ground objectives. The Summit's primary outcome will be a **Call to Action**, aimed at mobilizing critical mass to address the enduring challenges and uplifting opportunities of the tropics.

The Summit seeks to critically evaluate, within the remaining timeframe of the **Sustainable Development Goals** (SDGs), what can realistically be achieved, with whom, and with what resources. It will assess the need for policy and strategy restructuring. The event will also promote knowledge transfer, catalyze stakeholder engagement, and foster multidisciplinary collaboration through diverse yet synergistic pathways. It aims to co-create innovative projects by building on and expanding existing collaborative initiatives, accelerating the implementation of tangible and robust solutions. The focus will be on driving investments, forging new partnerships, and advancing multi-actor actions through **South-South-North cooperation** across four key domains:

1. **PLANETARY HEALTH:**

Nurturing life within the global boundaries

2. **AGRICULTURAL DEVELOPMENT:**

Sustainability as a path to socioeconomic progress

3. **TERRITORIAL AND SOCIAL TRANSITIONS:**

Building resilient spaces and societies in every dimension

4. **HUMAN GROWTH:**

Empowerment and technology for the times ahead

The event will take place from November 4 to 8, 2024, at the Lisbon Congress Center, featuring a variety of events and formats, including high-level interventions, plenaries, debates, thematic sessions, poster presentations, project showcases, study visits, and an exhibition hall. It will also include a social and cultural programme.

The Summit will foster multilateral meetings, such as working groups, on-site knowledge/technology sessions, pitch & reverse pitch presentations, science-business interfaces, B2B and bilateral meetings, and networking sessions.

The multifaceted programme is designed to embrace diversity and promote inclusion, creating a welcoming environment for a broad range of stakeholders. It addresses the needs and interests of various participants, providing ample opportunities for interaction, sharing visions, and exchanging experiences and expertise. The target audience includes start-ups, investors, policymakers, consultants, associations, researchers, NGO professionals, educational institutions, and representatives from the private sector—from large corporations to medium and small enterprises. This ensures that the Summit functions as a dynamic platform where individuals from diverse backgrounds and sectors can come together for meaningful dialogue and collaboration.

The progress made at the Lisbon Summit is expected to be reviewed in subsequent meetings, all aligned with the 2030 goal.

HIGH-LEVEL PANEL



**Marcelo
Rebelo de Sousa***
President of
The Republic,
Portugal



Paulo Rangel
Minister of State
and Foreign Affairs,
Portugal



**Maria da Graça
Carvalho**
Minister of
Environment
and Energy,
Portugal



Carmen Neto
Minister of
Fisheries and Marine
Resources,
Angola



Viriato Cassama*
Minister of
Environment
and Biodiversity,
Guinea-Bissau



**Henry Musa
Kapka***
Minister of Agriculture
and Food Security,
Sierra Leone



Jeffrey D. Sachs
President of the
UN Sustainable
Development
Solutions Network

PROMOTERS' INTERVENTIONS



Cristina Máguas

Co-chair of the
Tropical Summit,
University of Lisbon



Aggrey Agumya

Co-chair of the
Tropical Summit,
FARA



Luis Ferreira

Rector,
University of Lisbon



Cecília Rodrigues

Vice-rector
for Research
and Innovation,
University of Lisbon



Ana Ribeiro

Director of
CTROP - Tropical
College of the
University of Lisbon



Jorge Malheiros

Vice-director of
CTROP - Tropical
College of the
University of Lisbon



Andrea Valente

Vice-director of
CTROP - Tropical
College of the
University of Lisbon



Yemi Akinbamijo

Former Executive
Director of FARA-Africa
(2013-2023)

PLENARY SPEAKERS & ROUNDTABLE PARTICIPANTS

PLANETARY HEALTH



**Jens-Christian
Svenning**

Director of the Center
for Ecological Dynamics
in a Novel Biosphere,
Aarhus University



Patrícia Morellato

Director of the Center
for Research on
Biodiversity Dynamics
and Climate Change,
São Paulo University,



Ahmed Zaky

Chief Executive Officer,
Instituto Marquês de
Valle Flôr

AGRICULTURAL DEVELOPMENT



**Umezuruike
Linus Opara**

President, International
Commission of
Agricultural and
Biosystems Engineering



Bongwiwe Njobe

Chairperson, Forum
for Agricultural
Research in Africa
(FARA)



Sammy Aggrey

Richard B. Russell
Endowed Chair,
University of Georgia,
Athens GA

TERRITORIAL AND SOCIAL TRANSITIONS



**Peyi
Soyinka-Airewele**
Chairperson, Tompkins
County Human Rights
Commission, Ithaca
College



David Simon
University of London
and Director of Mistra
Urban Futures
(2014-2019)



**Inês Macamo
Raimundo**
Centre for Policy
Analysis, Eduardo
Mondlane University

HUMAN GROWTH



Arjun Appadurai
Emeritus Professor of
Media, Culture and
Communication at New
York University



Palesa Sekhejane
Director of the
Strategic Partnerships
Unit of the Human
Sciences Research
Council



**Francesco
Candeloro Billari**
Professor of
Demography and
Rector at the Bocconi
University

SELECTED SESSIONS

Catalyzing agro-ecological transitions in the tropics in the context of climate change

Promoter: FARA-CCARDESA-CORAF

Training in health research: a way/path to promote national scientific systems. Experiences in the PALOP countries

Promoter: Calouste Gulbenkian Foundation

Collaborative research in the tropics: Addressing global biodiversity challenges through capacity building - lessons learnt and future directions

Promoter: BIOPOLIS-CIBIO - Research Centre in Biodiversity and Genetic Resources

Animal genomics for sustainability in the tropical regions

Promoter: University of Évora

Ecology meets public health in the time of systems thinking

Promoter: School of Medicine, University of Lisbon

Integrating the different dimensions of security and conflict

Promoter: School of Social and Political Sciences, University of Lisbon

Mobility exchange in research and higher education: promoting multilateral clusters of excellence

Promoter: School of Agriculture, University of Lisbon

Linking pharmaceutical and tropical sciences: from disease characterization to new therapeutic opportunities

Promoter: Faculty of Pharmacy, University of Lisbon

Thinking with the humanities in response to the current crisis

Promoter: School of Arts and Humanities, University of Lisbon

North-South and South-South migrations

Promoter: Institute of Geography and Spatial Planning & Faculty of Psychology, University of Lisbon

SUMMARIES' SAMPLE

Indicator system for monitoring the 2030 Agenda at the micro level: strategies for public and private institutions in Brazil

Luciana Lima, Federal University of Rio Grande do Norte, Brazil

Building an inter-connected clinical research ecosystem for Africa

Adriaan Kruger, nuvotoQ, South Africa

Inclusive climate action: comparing grassroots and government approaches in Brazil and Kenya

Julia De Freitas Sampaio, Humboldt University of Berlin, Germany

Socio-spatial impact of governance models on refugee camps: A causal-comparative study of two camps in Jordan

Mahesh Keswani, University of Lisbon, United States of America

State of Sacred Forests in West Cameroon

Jessica Cyntia Zambou, ERAIFT, Cameroon

Agro-clustering as a pathway to agricultural development and commercialization: Ethiopia as a case study

Getachew Eshetu Gidelew, Bahir Dar University, Ethiopia

Redefining conservation: Climate change, 30x30, and other effective area-based conservation methods

Naomi Ploos Van Amstel, Griffith University, Australia

Transformative agri-food supply chains for climate resilience: which indicators are suitable to measure resilience and social transformation?

Christine Altenbuchner, BOKU University, Austria

DIVERSITY OUTLOOK

WORKSHOP | Value Creation Wheel 4 the tropics - powered by AI

Promoter: School of Agronomy, University of Lisbon & NOVA School of Business and Economics

WORKSHOP | Using design thinking to break boundaries

Promoter: School of Social and Political Sciences, University of Lisbon

STAKEHOLDER ENGAGEMENT | Voluntary Carbon Markets

Promoter: Abreu Advogados

PROJECT SHOWCASE | Transforming African farming and food systems through research and innovation – A presentation and discussion with six EU-H2020 projects

Promoter: ISEG - Lisbon School of Economics & Management

PROJECT SHOWCASE | Promoting excellence: the award-winning work and impact of portuguese students in the tropics

Promoter: Portuguese Ecological Society

EXHIBITION HALL | Biodiversity and digitalization

Promoter: LifeWatch ERIC - e-Science European infrastructure for biodiversity and ecosystem research

EXHIBITION HALL | Health and medicine in the tropics

Promoter: Global Health and Tropical Medicine Institute

PLANET LOUNGE | Biodiversity and ecosystem restoration

Promoter: Tropical Summit organising committee

PEOPLE LOUNGE | Demographic challenges for sustainable cities

Promoter: Tropical Summit organising committee

NETWORKING & CULTURE

Reception at the Macau Cultural and Scientific Centre

Promoter: Macau Cultural and Scientific Centre

JOINING FORCES | Networking across sectors

Promoter: Tropical Summit organising committee

CULTURAL STAGE | Vibrant music from the tropics: Africa

Promoter: Tropical Summit organising committee & local cultural associations

CULTURAL STAGE | Vibrant music from the tropics: Latin and South America

Promoter: Tropical Summit organising committee & local cultural associations

OUTDOOR | Tropical (natural) heritage in Lisbon

Promoter: National Museum of Natural History and Science

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Applying genomics towards the development of breeding programs for resistance to trypanosomiasis in small ruminants: an overview of the Resistrypsheep project in Angola

Andreia J. Amaral ^{1,2}

1-Centre for Interdisciplinary Research in Animal Health (CIISA) and AL4Animals, Faculdade de Medicina Veterinária, Universidade de Lisboa, Portugal

2-MED—Mediterranean Institute for Agriculture, Environment and Development and CHANGE – Global Change and Sustainability Institute, University of Évora, Polo da Mitra, Ap. 94, 7006-554, Évora, Portugal

In Angola, almost 70% of the population is dependent on agriculture as a source of income, and local breeds are strongly linked to the economy and culture of local populations. Due to the occurrence of several social and environmental disasters in Angola, along with the increasing demand for livestock products, many of the local breeds are at risk of extinction. The characterization and conservation of these breeds is of utmost importance since local farmers rely mostly on local breeds that play an important role as a source of protein for human nutrition and of other products such as leather and wool. Moreover, local breeds appear to be adapted to several environmental stressors

Advances in next-generation sequencing of DNA have allowed for easy generation of whole genome-sequencing data that allows the identification of reliable candidate genes or genomic regions under selection without requiring pedigree information.

This work aims to characterize the genetic diversity of Angolan local sheep and identify selection signatures related to trypanosomiasis resistance. Genetic diversity will be assessed using panels of 60K SNP (single nucleotide polymorphism) markers in samples from 30 sheep. The identification of selection signatures will be based on the sequencing of 10 genomes, utilizing complementary approaches to pinpoint candidate genes associated with resistance to trypanosomiasis.

A total of 68 blood samples were collected from sheep in the provinces of Cunene, Namibe, Malanje and Cabinda to support the study of genetic diversity and the identification of selection signatures. For the identification of signatures of selection, so far six samples were sequenced, yielding read lengths of 78.95, 104.04 and 74.36, 81.31, 112.04 and 59.47 Gb, with a coverage of 30X; and two samples yielding read lengths 26.18 and 41.68 Gb with a coverage of 10X. The preliminary analysis of this data will be presented comparing the analyzed genomes with other sheep breeds available in public repositories.