

ANH
Academy

Agriculture, Nutrition and
Health Academy

ANH2022

ONLINE AND SOUTH AFRICA

20-30 June 2022

7th Annual Agriculture, Nutrition and Health (ANH) Academy Week



SOUTHERN AFRICA
FOOD LAB



AFRICAN ECONOMIC RESEARCH CONSORTIUM
Consortium pour la Recherche Economique en Afrique



MEALS4NCDs
Providing Measurement, Evaluation, Accountability
& Leadership Support (MEALS) for NCDs Prevention



African Nutrition Society
Société Africaine de Nutrition
الجمعية الإفريقية لعلوم التغذية



Stellenbosch
UNIVERSITY
IYUNIVESITHI
UNIVERSITEIT



innmana
Innovative Methods and Metrics for
Agriculture and Nutrition Action



LONDON SCHOOL OF
HYGIENE & TROPICAL
MEDICINE



Tufts
UNIVERSITY
Gerald J. and Dorothy R.
Friedman School of
Nutrition Science and Policy



The
University
Of
Sheffield.



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BILL & MELINDA
GATES foundation

ABOUT THE ANH ACADEMY

The Agriculture, Nutrition and Health (ANH) Academy brings together researchers, practitioners and policymakers working for better nutrition and health through improved agriculture and food systems.

With members in over 100 countries, the ANH Academy is a global network and platform for sharing research and evidence, capacity strengthening and collaboration across diverse disciplines. The ANH Academy also shares methods and metrics developed through IMMANA grants and fellowships.

What we do:

- Annual ANH Academy Week, where Academy members meet for learning labs and an interdisciplinary research conference.
- Working groups to accelerate research by sharing experience and synthesising disparate research methods and metrics.
- Skills-based trainings via face-to-face gatherings and webinars.
- Support Centre for Agriculture and Nutrition Research (SCANR).
- Online collaborative platform for learning and sharing.

IN SUMMARY

ANH 2022

Each year the ANH Academy Week rotates between Africa and Asia in order to lower barriers to participation. In 2022, despite the ongoing challenges of the pandemic, we were proud and privileged to co-host the Academy Week in partnership with organisations in South Africa. With the support and guidance of this collaboration, the programme was enriched by the sharing of evidence and experiences from the region. In 2018 and 2019 ANH Academy trialled live streaming for the first time, to broaden participation in the event. 2022 saw the first attempt at making selected sessions fully hybrid. Beamed live from South Africa, important discussions on child-centred food systems, fireside chats and poster presentations involved – for the first time – active participation, between attendees and speakers both online and in person. We are grateful for the careful planning of South African partners. Look out for a fully hybrid conference in 2023!

Another new innovation for 2022 was the encouragement and material support of regional watch parties. Bells University in Nigeria became the first institution to host such an event, with over 70 people joining ANH2022 together in one place! Based on the success of this new initiative, which has benefits for participation and the environment, the Watch Party model will be expanded for ANH2023.

SOUTH AFRICAN ORGANISING PARTNERS:

- Southern Africa Food Lab
- Stellenbosch University



ORGANISING PARTNERS

ANH2022 would not have been possible without the generous time and effort contributed by a range of partner organisations and individuals for whose support we are enormously grateful.

ANH2022 was organised and funded by:



BILL & MELINDA GATES foundation



In partnership and with the support of:

SOUTHERN AFRICA FOOD LAB



Gerald J. and Dorothy R. Friedman School of Nutrition Science and Policy



The University of Sheffield.



Join the ANH Academy for free:
<http://www.anh-academy.org>

ANH2022 IN NUMBERS

 **1150 tweets, retweets** using #ANH2022

15 LEARNING LABS



30 hours of live Learning Lab sessions



1347 total participants



71 facilitators from 26 institutions



63+ hours of live sessions

throughout the two weeks of the conference, including the Learning Labs and the Research Conference

RESEARCH CONFERENCE



3 plenary discussions



2 fireside chats (panel discussions)



12 oral and poster presentation sessions



14 side events



13+ hours of live sessions

 **1974 registrants** from 115 countries

1225  unique participants over the 2 weeks

- 20%
- 13%
- 2-5%
- <1%
- 7-11%
- No participants

98 presenters from 33 countries

3 watch parties
123 attendees, 3 countries



90% of survey respondents **rated ANH2021** as 'excellent' or 'very good'



19% of survey respondents **made new connections**

LEARNING LABS

This year, the ANH2022 Learning Lab programme brought 15 unique sessions to the ANH community, delivered by experts in their field.

The diverse set of topics ranged from training on measuring dietary diversity to practical lessons from private sector marketing. We were also proud to include our South African partners in a fascinating Learning Lab focused on the complexity of child malnutrition in South Africa.

Lastly, the ANH Academy was excited to offer 2 Learning Labs focused on technical skills, effective abstract writing and data visualization, offering something for everyone in the ANH space. To find out more about our ANH2022 Learning Labs, each session can be found on the [ANH Academy website](#).



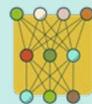
Beyond the theory of food systems: stakeholder interaction methods to identify top 3 food system issues and demand-driven solutions

Alliance Bioversity–CIAT



SCANR: Resources and guidance for analysis of secondary data in agriculture, food systems, nutrition, and health

IMMANA, Tufts University Friedman School of Nutrition Science and Policy



Classifying famine? A simulation of the integrated food security phase classification

Food and Agriculture Organization, Southern Africa Food Lab



Calculating the cost and affordability of a healthy diet

Tufts University Friedman School of Nutrition Science and Policy



The Global Diet Quality Score: There's an app for that!

FHI Solutions



Using cognitive methods to develop quantitative tools with emic validity

IFPRI, IITA, Helen Keller International



Generating demand for healthy diets: practical lessons from private sector marketing

JSI, USAID Advancing Nutrition, USAID Bureau for Resilience and Food Security



How to write an effective abstract

London School of Hygiene and Tropical Medicine, Swedish University of Agricultural Sciences, University of Ghana, African Nutrition Society, University of Sheffield



The Food Systems Dashboard and the Innovative Food Systems Solutions Portal: New tools for exploring food systems data and innovations

Alliance of Bioversity International, Bioversity International–CIAT, CGIAR, Global Diet Quality and Food Prices for Nutrition Projects, Glocolearning, Global Alliance for Improved Nutrition, Johns Hopkins University



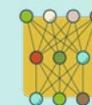
Consumer preferences and their implications for food systems research

Biodiversity International–CIAT, FHI Solutions, University of Georgia



Collecting dietary data using a 5-min survey module (DQQ) adapted for >100 countries

GAIN, Harvard University, Wageningen University & Research, USAID Advancing Nutrition



Measuring empowerment in nutrition-sensitive agricultural development projects using pro-WEAI

IFPRI



Navigating the complexity of child malnutrition in South Africa: The nourished child photo exhibition

Centre for Food Policy at City, University of London, University of Cape Town, Southern Africa Food Lab



Making better figures: visualizing data for action

Johns Hopkins School of Public Health–DataDENT



Strengthening causal inference from randomized controlled trials of complex interventions

Bill and Melinda Gates Foundation, IFPRI, University of South Carolina

RESEARCH CONFERENCE

We explored a diverse range of evidence and ideas concerning the most pressing agriculture-food systems issues impacting nutrition, health and the environment during the ANH2022 Research Conference.



The opening speech

Given by Liam Smeeth, Director of the London School of Hygiene and Tropical Medicine

Plenary sessions

(IN)EQUITIES IN PUBLISHING

Knowledge production reflects power imbalances borne from historical legacies that skew the representation of researchers and practitioners, as well as the evidence that underpins policy actions. This session brought together researchers, journal editors and open science advocates to discuss the problems and potential solutions within academic publishing.



“Journals haven’t changed since the 1600s, they are fundamentally not innovative.” –ALEX HOLCOMBE

CHILDREN, THE RIGHT TO FOOD AND THE DOUBLE/TRIPLE-BURDEN OF MALNUTRITION IN SOUTH AFRICA



In South Africa, under the constitution ‘every child has the (legal) right to basic nutrition’. This session explored what that means in practice, in a country where child malnutrition in all its forms is increasing.

“The current food system is built upon the poverty of farmers.” –MERVYN ABRAHAMS



FIRESIDE CHAT: SOCIAL AND ECONOMIC JUSTICE IN THE FOOD SYSTEM

ANH partners in South Africa explored social justice, the impact of history of inequity in the food system and the value of indigenous knowledge systems for the future of people and planet.

“Food security has always been seen as an issue of poverty, not much an issue of equality. It’s not just a wealth issue, it’s really an issue of correcting our own mistakes.” –THULI MADONSELA



FIRESIDE CHAT: COMMERCIAL DETERMINANTS OF NUTRITION: WHAT CAN WE LEARN FROM THE LATIN AMERICA EXPERIENCE?

In this session, discussants spoke of the role research played in driving innovative nutrition policies in Brazil, Chile and across the region to manage the expansion of commercially-driven ultra-processed foods. The challenges faced can be valuable lessons for other regions of the world.

“We need to establish boundaries and norms for the interaction with industry. It is essential to keep all actors accountable.” –CAMILA CORVALAN

FOOD SYSTEM RESILIENCE: IS CIRCULARITY THE ANSWER?



This session brought together a diverse group of experts to think holistically about food system circularity in terms of livestock, indigenous knowledge, food sovereignty, waste management, human health and the de-concentration of corporate power.

“Circularity is not just about food waste, it’s about reducing the overall resource intensity over the whole cycle of production and consumption, from a life cycle perspective.” –DESTA MEBRATU

Thematic sessions

The ANH Academy was enriched by high quality abstracts from the global research community. For 2022, these were programmed into nine thematic oral sessions that showcased the latest research where niche discussions happened and provided opportunity for collaborations and connections to be made.



Conflict, crisis and shocks



Resilience, vulnerability and planetary health



Affordability of diets



Mapping food systems and food environments



Strategies and evaluations for nutrition-sensitive interventions



Transforming food systems for health and sustainability



Food system governance, policy and legislation



Behaviour change and socio-cultural factors in agriculture or food environment contexts



Gender and equity

Posters

Effective and innovative research communication is vital to ensuring that research makes a difference. This year, we had fun and fast-paced 1-minute presentations that challenged presenters to pitch their posters effectively and engage with attendees in Zoom breakout rooms.

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SIMULTANEOUS TRANSLATION ON ZOOM

This year, we trialled for the first time simultaneous translation on Zoom, which increased accessibility to our francophone audience. By breaking the language barrier, we also had an oral presentation in French, thus making the event more accessible for the speakers themselves.

Poster prizes: Congratulations to the winners of our audience-driven poster prizes!

Tuesday's poster winner:



Ilana Cliffer, Harvard University T H Chan School of Public Health – A novel framework for a complex systems approach to understanding the seasonality of nutrition outcomes: a paradigm shift in nutrition seasonality

Wednesday's poster winners (tied):



Olutayo Toromade, Department of Human Nutrition and Dietetics, University of Ibadan – Nutrition-Sensitive Programming in Non-Humanitarian Food Assistance: Findings from a situation and Readiness Assessment in Lagos, Nigeria



Krystal Rampalli, University of South Carolina – Food choice decision-making in the context of changing livelihoods in low-and middle-income countries

Thursday's poster winner:



Christelle Akl, American University of Beirut, Lebanon – School neighbourhood food environments in Greater Tunis: predominance of unhealthy food retailers and food advertisements

SIDE EVENTS

ANH Academy places high value on making new connections, collaborations and friendships, while learning about different areas of work in the ANH community. ANH2022 hosted a range of fun side events designed to get people talking!

THIS YEAR'S SIDE EVENTS INCLUDED:

- [INDDX24 Dietary Assessment Platform](#)
- [Nova Screener of Ultra-processed Foods \(Nova-UPF\): A new tool to monitor and benchmark population diet quality](#)
- [Approaches to measuring self efficacy](#)
- [Best Practices in Nutrition Social Behavior Change in Nutrition Sensitive Agriculture](#)
- [LSMS for Nutrition – Learning Hub](#)
- [Agricultural Policies and Nutrition Outcomes in sub-Saharan Africa](#)
- [A right to food and nutrition](#)
- [Advancing food and nutrition science through lab-industry-trade nexus: The LCM](#)
- [Help contribute to Sustainable Food Systems with our Online Toolkit & Community](#)
- [Periodic Table of Food Initiative: Unlocking Food Composition to Revolutionize Human and Planetary Health](#)
- [Accelerating integration of prenatal multiple micronutrient supplementation into antenatal care services](#)
- [Food environments of deprived urban neighbourhoods in LMICs](#)
- [Global Nutrition Policy: Levers, Blockers and Role of Innovative Research](#)
- [Creating Demand and Changing Behaviors for Scaling Up Nutrition Interventions: Case Studies from the Global South](#)



Globally, many women lack access to nutritious diets...

170 million women – 1 in 10 – of reproductive age are underweight.

570 million women – 1 in 3 – of reproductive age are anemic.

In South/Southeast Asia, stunting (short stature) affects 35% of children.

What is in a tomato? Snapshot of the Scientific Literature

2,000+ constituents (ex: oleic acid, arginine, L-alanine, phenolic compounds (phenolic acids and flavonoids), carotenoids, and glycoalkaloids (tomatoes), 400 aroma volatiles)

Natural compounds: Monoterpene compounds and fermentation products, natural additives

Synthetic compounds: Pesticides, herbicides, fungicides, preservatives, additives

Endogenous Biomolecules: Carbohydrates, Vitamins, minerals

Exogenous Biomolecules: Antibiotics, ethanol, acids

Introduction

Africa is the world's second-largest and second-most populous continent, after Asia in both cases.

At about 30.3 million km² (11.7 million square miles) including adjacent islands, it covers 6% of Earth's total surface area and 20% of its land area.

With 1.3 billion people as of 2018, it accounts for about 16% of the world's human population.

FEDERAL UNIVERSITY OF AGRICULTURE, ABEOKUTA

A systematic review of food waste audit methods in hospital foodservices: development of a consensus food waste audit tool (2022 Mar)

Open access link to article

External relevant links

Corresponding author: Njunga Ndung'u

Strategic/Systematic

Participatory/Community

Theory Informed

Evidence Based

NSBC's Systematic Process and Best Practices

Engage and promote, Understand, Design, test, adapt, Evaluate, learn, adapt, Identify, prioritize target behaviors, Conduct research to understand the context/influences of the target behaviors, Evaluate results and re-plan to improve, Establish feasible objectives and systems to track implementation quality and measure progress, Establish systems to develop/maintain capacity of FLW for quality implementation, Integrate projects with existing programs and/or systems, Test and adapt tools, and communication, Use per participants, Use to reinforce

Agricultural Policies and Nutrition Outcomes in sub-Saharan Africa

African Economic Research Consortium Side Event ANH22 Conference

Njunga Ndung'u, Executive Director, AERC, June 29, 2022

AERC CREA

Health & Nutrition Data Production in LSMS Surveys

What's in it:

- Consumption always a key component (for poverty measurement)
- Health
- Anthropometry
- Food frequency and DD, Food security, WASH
- ... plus a rich set of socio-economic covariates and community data...
- ...and recently several longitudinal studies

WATCH PARTIES

This year for the first time, we encouraged institutions across the globe to host regional watch parties. These gatherings sought to provide a communal space where online ANH2022 sessions could be streamed live for to enable participants to experience the event together in-person. The goal was to bridge the gap between in person and online formats, to provide a fun atmosphere, networking opportunities and hybrid interactions. We took inspiration from the [Planetary Health Alliance](#), who tried out this format in 2021 at their Annual Meeting with great effect.

Brighton, United Kingdom

The ANH Academy team trialed an in-person watch party of its own in Brighton on the final day of the Research Conference with 40 people taking part. The event – featuring speakers and session chairs who contributed to live sessions from the venue – was followed by a social reception at Brighton Beach Club.



Ota, Nigeria

The Nutrition & Dietetics Programme team, from Bells University of Technology organised an event on Thursday at Senate Chambers. The watch party was attended by 50 lecturers, nutritionists, dietitians, doctors and ICT experts. Bells branch held parallel group discussions and served local traditional food.



Stellenbosch, South Africa

Day 2 of the Research Conference was transmitted live from Stellenbosch University in South Africa, with rich discussions that transcended in person and online interactions, including a fireside chat: "Social and economic justice in the food system".

THANK YOU

The ANH Academy Week would not be possible without the support, guidance and inputs of a large number of people around the world, for whom we express our sincere gratitude!

Organising Committee

Chair:

Joycelyn Kathembe, London School of Hygiene and Tropical Medicine (LSHTM)

Members:

- Alessia Gasco, LSHTM
- Ana Sousa, LSHTM
- Bertha Chedeye, AERC
- Busiso Moyo, University of the Western Cape
- Elena Martinez, Tufts University
- Emma Walton, LSHTM
- Gregory Cooper, Sheffield University
- Heike Rolker, Bristol University
- Helen Harris-Fry, LSHTM
- Hilary Davies-Kershaw, LSHTM
- Joe Yates, LSHTM
- Julia Matteson, Tufts University
- Megan Deeney, LSHTM
- Ore Kolade, LSHTM
- Sara Strout, LSHTM
- Silver Nanema, MEALS4NCDs project, University of Ghana
- Stephanie Ray, LSHTM
- Sylvia Levy, LSHTM
- Zachary Gersten, University of Michigan

Volunteers:

- Mei-Hsuan UG-Ku – City Microplacement
- Abdiaziz Osman – City Microplacement

Scientific Committee

Chair:

Jeff Waage, London School of Hygiene and Tropical Medicine (LSHTM)

Members:

- Aditi Mukherji, International Water Management Institute
- Alejandro Ortega-Beltran, International Institute of Tropical Agriculture (IITA)
- Amos Laar, University of Ghana & African Nutrition Society
- Anna Herforth, Ag2Nut and Harvard School of Public Health
- Anne-Marie Mayer, Int'l Inst of Environment & Development (IIED)
- Bharati Kulkarni, National Institute of Nutrition (NIN)
- Bhavani Shankar, Sheffield University
- Brenda Akwanyi, Emergency Nutrition Network (ENN)
- Celine Termote, The Alliance of Bioversity International and CIAT
- Chris Bene, Wageningen University (WU)/ CIAT
- Christine Chege, International Center for Tropical Agriculture (CIAT)
- Claire Dooley, LSHTM / IMMANA
- Emorn Udomkesmalee, Mahidol University
- Erin Lentz, University of Austin, Texas
- Francis Zotor, African Nutrition Society
- Giacomo Zanella, University of Reading
- Hala Ghattas, American University of Beirut
- Hassan Ishaq Ibrahim, Federal University Dutsin-Ma
- Hazel Malapit, A4NH
- Inge Brouwer, Wageningen University & Research
- Jan Low, International Potato Centre (CIP)
- Jillian Waid, Potsdam/Charite
- Jody Harris, Institute of Development Studies (IDS) and World Vegetable Center
- Joe Yates, LSHTM
- Julia de Bruyn, Natural Resources Institute (NRI)

- Kelvin Mashisia Shikuku, World Fish
- Lindsay Jaacks, Global Academy of Agriculture, University of Edinburgh
- Mark Korir, African Economic Research Consortium
- Mark Lundy, CIAT
- Mehroosh Tak, Royal Veterinary College (RVC)
- Molly Muleya, University of Nottingham
- Namukolo Covic, IFPRI, African Nutrition Society
- Nilofer Fatimi, Dow University of Health Sciences
- Rachel Bezner-Kerr, Cornell University
- Scott Drimie, Southern Africa Food Lab, Stellenbosch
- Semira Mohammed Beyan, Hawassa University
- Swetha Manohar, Johns Hopkins University
- Stella Nordhagen, GAIN
- Suneetha Kadiyala, LSHTM
- Taddese Alemu Zerfu, Global Academy of Agriculture, University of Edinburgh
- Tesfaye Hailu Bekele, Ethiopian Public Health Institute (EPHI)
- Umi Fahmida, SEAMEO RECFON, Indonesia
- Will Masters, Tufts University
- Winnie Bell, Tufts University

South Africa Advisory Committee

Co-chairs:

- Scott Drimie, Southern Africa Food Lab
- Busiso Moyo, University of the Western Cape

Members:

- Julia Harper, Stellenbosch University
- Florian Kroll, University of the Western Cape
- Kennedy Dzama, Stellenbosch University
- Tafadzwa Mabhaudi, University of KwaZulu Natal
- Xiko Mbhenyane, Stellenbosch University
- Tatjana van Bornmann, World Wide Fund for Nature

