



UNIVERSITY OF
HOHENHEIM

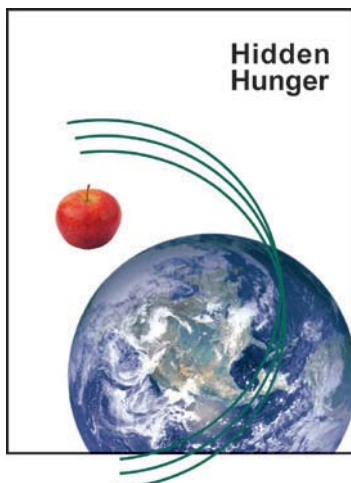
With financial support from the



Federal Ministry
for Economic Cooperation
and Development



SOCIETY OF NUTRITION
AND FOOD SCIENCE



4th International Congress

Hidden Hunger

**Hidden Hunger and the transformation of food systems:
How to combat the double burden of malnutrition?**

February 27 - March 1, 2019

Stuttgart, Germany



www.hiddenhunger.uni-hohenheim.de

The 4th International Congress Hidden Hunger is organized by the **Institute of Biological Chemistry and Nutrition** and the **Institute of Agricultural Sciences in the Tropics** of the University of Hohenheim as well as the **Society of Nutrition and Food Science (SNFS)**.

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Congress Venue

University of Hohenheim (Foyer in the Bio Building)
Garbenstraße 30, D-70599 Stuttgart, Germany

Venue of the Come Together Evening (Wednesday, February 27, 2019)

University of Hohenheim, Mensa/ Canteen, Garbenstrasse 29, D-70599 Stuttgart, Germany

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Please note that all names are given without academic titles

4TH INTERNATIONAL CONGRESS HIDDEN HUNGER HIDDEN HUNGER AND THE TRANSFORMATION OF FOOD SYSTEMS: HOW TO COMBAT THE DOUBLE BURDEN OF MALNUTRITION?

**FEBRUARY 27 – MARCH 1, 2019
STUTTGART, GERMANY**

Welcome to the 4th International Congress Hidden Hunger!

The 4th Congress Hidden Hunger is a continuation of the successful, international event series “Congress Hidden Hunger” which started in 2013 in Stuttgart, Germany.

At the 1st Congress Hidden Hunger the causes and consequences of hidden hunger as well as possible solutions were discussed. The 2nd Congress Hidden Hunger which was hosted in 2015 addressed the specific problem of hidden hunger during pregnancy and the first years of life. Associated, serious consequences for child development and the increased risk for maternal mortality were also discussed. In March 2017, the 3rd Congress Hidden Hunger considered the question of how far the Post-2015 Agenda and other programs and measures adopted in 2015 to fight against world famine and poverty have already been implemented. To achieve this, political parties and industry representatives as well as representatives of civil society and advocacy groups (NGOs) were invited to take a position. Furthermore, successfully established projects and initiatives (such as the special initiative “One World – No Hunger” of the Federal Ministry for Economic Cooperation and Development (BMZ)) were presented at this previous event of the “Congress Hidden Hunger” series.

As in case of the previous congresses in this series, the 4th Congress Hidden Hunger taking place in 2019 brings together members of different disciplines: nutritionists, agricultural scientists, economists and sociologists. Moreover, the congress encourages the dialogue between scientists, policy-makers and representatives of non-governmental organizations and the private sector. It is dedicated to review the available evidence on the double burden of malnutrition, present new research findings on underlying causes and consequences, feature innovative strategies and discuss the roles and responsibilities of governments, development organizations, civil society and the private sector in combating the double burden of malnutrition.

The “Congress Hidden Hunger” provides a platform for global interactions of members belonging to the scientific community, representatives from politics, government and the media as well as members of civil society organizations, advocacy groups and private and public sector bodies. The considerable and continuous feedback to the first three congresses convinced the organizers to host the 4th Congress Hidden Hunger with the title “Hidden hunger and the transformation of food systems: How to combat the double burden of malnutrition?”.

Thanks for joining us!

www.hiddenhunger.uni-hohenheim.de



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CHAIRS' MESSAGE



During the past decade, the problem of hidden hunger has become increasingly recognized by the international development community. With meanwhile three congresses, we look back on the successful event series "Congress Hidden Hunger" which was part of a worldwide increase of interest how to deal with that problem and how to uncover hidden hunger as a major reason for poor physical and cognitive childhood development in particular within the 1000-day window. But in addition to hidden hunger, there is another problem that is becoming more and more aware: the increase of overweight particularly in low- and middle-income countries and the fact that overweight does not rule out malnutrition.

Due to urbanization and industrialization the countries of the world experience a transformation of their food systems along with an increase of processed food which is often high in fat and low in micronutrients. The consequence of a proportionately high consumption of such processed food is in many cases obesity combined with malnutrition. The World Health Organization (WHO) has called this the "double burden of malnutrition", which is "characterized by the coexistence of undernutrition along with overweight and obesity, or diet related non-communicable diseases, within individuals, households and populations, and across the life course". The Food and Agriculture Organization (FAO) refers to the problem as a "double burden", distinguishing between energy deficiency (hunger), micronutrient deficiency (hidden hunger) and overweight/obesity.

Nutritionists and development economists have recognized the concurrent trend of energy and micronutrient deficiency alongside overweight/obesity as a growing threat for developing countries. The coexistence of micronutrient deficiency and obesity can even be observed in high-income countries especially among population groups with low socio-economic status. The Sustainable Development Goal 2 (SDG2) envisages an end to all forms of malnutrition by 2030. However, there are still considerable knowledge gaps regarding the underlying causes of the double burden of malnutrition. Moreover, there is an urgent need to better understand which strategies can be used to effectively address the double burden of malnutrition.

A systematic review showed that the coexistence of undernutrition and overnutrition within the same household ranges between 0% and 27% worldwide, while in particular affecting countries in Africa and Asia. The fatal coincidence of stunting (reduced growth and impaired cognitive development) and obesity increases the risk of children suffering from non-communicable diseases (NCD) as soon as adolescence and adulthood is reached (e.g. diabetes, hypertension, metabolic syndrome). Children from low- and middle-income countries are primarily affected. In those countries prevalence of stunting and overweight is between 0.3% and

11.7%. This health problem is associated with the transformation of food systems in increasingly urbanized societies towards growing consumption of energy-dense but micronutrient-poor food. Together with low dietary diversity and the dominance of starchy food, this combination favors the development of malnutrition and obesity in children. Furthermore, a poor supply of vitamin A, D, folate, iron, zinc and iodine is evident. What has remained largely unrecognized is the fact that the coexistence of overnutrition and micronutrient deficiency continues to persist in also high-income countries where it affects populations with low socioeconomic status.

The 4th Congress Hidden Hunger with the title "Hidden hunger and the transformation of food systems: How to combat the double burden of malnutrition?" will bring together various disciplines from high- and low-income countries to focus on the links and gaps between science and reality in all parts of the world. It has the goal to discuss the topic of hidden hunger with reference to the worldwide problem of overweight as well as to the global nutritional situation from the perspectives of governmental and non-governmental organizations, politicians, economists, nutritionists and agricultural scientists. Again, we are profoundly grateful for the participation of international speakers who may help us to uncover the problem of hidden hunger and bring it on a visible stage. Improving visibility and raising further awareness will indeed help to promote our common goal to end hunger.

Thanks to the generous financial support of, amongst others, the Federal Ministry for Economic Cooperation and Development (BMZ), the Federal Office for Agriculture and Food (BLE) at the Federal Ministry of Food and Agriculture (BMEL) and the Ministry of Rural Affairs and Consumer Protection (MLR) of Baden-Württemberg we were able to organize a conference with speakers from all over the world and with different expertise related to the topic of nutrition transition and the double burden of malnutrition.



Hans K. Biesalski

Former Head of the Institute of Biological Chemistry and Nutrition and Former Director of the Food Security Center (FSC), University of Hohenheim



Regina Birner

Chair of Social and Institutional Change in Agricultural Development, Institute of Agricultural Sciences in the Tropics, University of Hohenheim

THE SPECIAL INITIATIVE “A WORLD WITHOUT HUNGER” OF THE FEDERAL MINISTRY FOR ECONOMIC COOPERATION AND DEVELOPMENT (BMZ)

With financial support from the



Federal Ministry
for Economic Cooperation
and Development

Where are we standing?

By 2015, the proportion of people starving to the world's population was steadily declining. At present, however, crises, conflicts and the consequences of climate change are again leading to rising hunger rates. In 2017, 821 million people worldwide could not meet their calorie needs. Another 2 billion people suffer from micronutrient deficiencies and more than 672 million people are obese.

It is clear: we can only secure the nutrition of the growing world population by joining forces to invest in sustainable agriculture and the rural regions of developing and emerging countries.

Where do we want to go?

The end of hunger and malnutrition for all people is one of the internationally agreed Sustainable Development Goals (Agenda 2030). In addition, Germany and the other G7 countries have set themselves the goal of ending hunger and malnutrition for 500 million people by 2030.

For this it is needed:

- An income-generating and climate-adapted **agri-food sector**, that is productive enough to feed all people;
- **Access** and **equitable distribution** of natural **resources**;
- Ensuring a balanced, healthy **diet**;
- Securing access to **safe drinking water**, **health care** and **social protection**;
- Strengthening the autonomy of people and their **resilience to future crises** and their consequences;
- **New job and life perspectives** in rural areas for the growing, mostly very **young population**.

What do we do – and what do we achieve?

Every year, the Federal Ministry for Economic Cooperation and Development (BMZ) invests around **1.5 billion euros** in rural development and food security. One third of this flows into the **Special Initiative** launched in 2014, **A World Without Hunger (SEWOH)**. It is transnationally active especially in Africa. SEWOH-priority countries are particularly affected by food insecurity. By 2022, we want to improve nutrition for **18 million people**.

The causes for hunger and malnutrition are complex and require an integrated multisectoral approach. Some examples from our work:

1. Green innovation centers in the agri-food sector

In order to overcome hunger and structural poverty in rural areas, the agricultural economy must be modernized and professionalized, the domestic processing industry strengthened and a modern food industry built up.

With the Green Innovation Centers, the BMZ is supporting the **introduction and dissemination of innovations along the value added chains** in 15 countries, together with local, German and international partners – from the field to the plate. Goals: more income and employment in rural areas, strengthening of local creation of value, increase in yields, productivity and income of smallholder farms.

The development needs in the countries are different and innovations in agriculture as answers to them can be versatile. In Ethiopia it may be mechanization, improved seed or sustainable crop protection, in Kenya the cold chains or in Burkina Faso new forms of cooperation such as producer groups and cooperatives. The most important challenge, however, is nearly the same in almost all countries: a low level of education and training of farmers or processors. Here we start: with training, consultancy and coaching innovative ideas are taught to **1.1 million people**. The focus is on small farmers, upstream and downstream businesses and founding entrepreneurs. Special attention is given to women (35%) and adolescents (20%).

2. Combating malnutrition

The SEWOH-global project Food Security and resilience strengthening works in 11 countries with the **goal that poor households can feed themselves sufficiently and healthy – even with hunger crises**. By 2020, the program should reach **up to 8.6 million people**. The focus is on women of childbearing age, pregnant women, nursing mothers and toddlers.

In order to improve the nutritional situation of the people in the long term, the program adjusts several parameters in parallel and adapts its activities to the different situations in the countries: We train small farmers to grow, irrigate, preserve and store fruits and vegetables. We also educate mothers and pregnant women about proper nutrition and hygiene. To do this, we work with local health centers and support measures to provide social protection to the most vulnerable people. To prevent diseases, we improve access to drinking water and sanitary facilities.

3. Ground Protection

Germany is one of the largest donors in the area of ground protection and supports around 800 projects. The positive effects are manifold: higher crops, more stable food supply, increased incomes, contribution to climate protection and, finally, to the fight against flight causes.

As part of the SEWOH, the grounds are to be used more sustainably and made fertile again through the Global Program for Ground Protection and Ground Rehabilitation in 6 partner countries. Concrete actions: erosion protection, improved crop rotation, compost application, agroforestry cultivation, improved ground analysis and others. Thus, the project makes an important contribution to the rehabilitation of arable land of smallholder farms – in total, 340,000 hectare of land in 6 countries and pasture can be rehabilitated by migrant farmers in 5 countries.

4. Land Rights

Worldwide, around 70% of land rights in emerging countries and around 90% in sub-Saharan Africa are undocumented. People with uncertain land rights face an increased risk of hunger, poverty, displacement and sometimes violent conflicts.

Since 2014, the BMZ has significantly expanded its commitment to securing and strengthening land rights through SEWOH. The global project “Responsible Land Policy” will strengthen the **land rights of up to 450,000 people** in rural areas.

E.g.: In Benin the probability increased by about 40% that small farmers with land titles use their land for perennial crops and tree plantings. This strengthened food security and ground protection.

DAY 1 – WEDNESDAY, FEBRUARY 27, 2019 – PROGRAM

Venue: University of Hohenheim

WELCOME AND OPENING 1

Chairs: Regina Birner and Hans K. Biesalski

Room: Audimax

- 08:30-08:40 am Introduction speech by Regina Birner and Hans K. Biesalski
- 08:40-08:50 am Opening speech by Stephan Dabbert (President, University of Hohenheim)
- 08:50-09:05 am Welcome speech from Stefan Schmitz (Deputy Director-General and Commissioner for the “One World – No Hunger” Initiative, German Federal Ministry for Economic Cooperation and Development (BMZ)): One World – No Hunger

OPENING SESSION organized by the German Federal Ministry for Economic Cooperation and Development (BMZ): Fixing food systems: Policies and interventions to tackle the double burden of malnutrition – What transformations do we need?

Chair: Matin Qaim

Room: Audimax

- 09:05-09:20 am Anna Onyango (Director of Policy and Research, Ministry of Agriculture, Livestock and Fisheries of Kenya): How agricultural policies can contribute to better nutrition – The Kenyan case
- 09:20-09:35 am Dale Lewis: Farming for food and conservation: how small-scale farmers, food processing, and a business partner can restore a landscape
- 09:35-09:50 am Olivia Yambi: Unravelling the Food-Health Nexus to build healthier food systems
- 09:50-10:20 am PANEL DISCUSSION
Panelists: Stefan Schmitz, Anna Onyango, Dale Lewis, Olivia Yambi

10:20-10:50 am COFFEE BREAK

WELCOME AND OPENING 2

Chairs: Regina Birner and Hans K. Biesalski

Room: Audimax

- 10:50-11:05 am Welcome speech from Friedlinde Gurr-Hirsch (Political Secretary, Ministry of Rural Affairs and Consumer Protection of Baden-Württemberg (MLR))
- 11:05-11:20 am Hanns-Christoph Eiden (President, Federal Office for Agriculture and Food (BLE)): “Fit for life” – German perspectives on how to tackle the double burden of malnutrition
- 11:20-11:40 am Fatiha Terki: Unlocking the hidden hunger crises: the power of public-private partnership
- 11:40-12:00 am John McDermott: Hidden hunger and the transformation of food systems: How to combat the double burden of malnutrition?

TOPIC 1: THE DOUBLE BURDEN OF MALNUTRITION: PREVALENCE, CAUSES AND CONSEQUENCES

TOPIC 1 – SESSION 1: The double burden and the transition of food systems

Chairs: Klaus Kraemer and Hans K. Biesalski

Room: Audimax

- 12:00-12:25 pm Zulfiqar A. Bhutta: Nutrition transition and food systems: what do we know?
- 12:25-12:50 pm Matin Qaim: Transformation of food value chains and the double burden of malnutrition
- 12:50-01:15 pm Francesco Branca: Making SMART commitments to achieve global nutrition targets in the Decade of Action of Nutrition

01:15-02:30 pm LUNCH BREAK & PRESS CONFERENCE

Program after lunch break see page 12



DAY 1 – WEDNESDAY, FEBRUARY 27, 2019 – PROGRAM

Venue: University of Hohenheim

PARALLEL SESSIONS: 02:30-03:35 pm		TOPIC 1 – SESSION 2A: Underlying causes of the double burden: The role of research and policy	TOPIC 1 – SESSION 2B: Consequences of the double burden: Impact on public health
	Chair: Manfred Zeller	Room: Audimax	Chair: Sabine Gabrysch Room: Ö1
02:30-02:55 pm	Jock R. Anderson: Why has international agricultural research neglected fruits and vegetables?		Jonnalagadda V. Meenakshi: The hidden and not-so-hidden public health epidemic in India
02:55-03:15 pm	Simon Fraval: Dietary gaps in tropical sub-Saharan Africa: prevalence and livelihood associations		Rose Nalubega: Dual burden of malnutrition trends among children and youths in Uganda
03:15-03:35 pm	Eyongetta Njieassam: Gender discrimination; Contribution to the “triple burden” of hidden hunger in south west region of Cameroon		John Kaganga: Promoting indigenous and traditional food systems to combat the double burden of malnutrition brought about by hidden hunger
03:35-04:00 pm COFFEE BREAK			
TOPIC 1 – SESSION 3: The double burden: Insights from global assessments			
Chair: Kirsten Boysen-Urban			Room: Audimax
04:00-04:25 pm	Keith P. West: Micronutrient deficiencies: A singular problem in a double-burdened world		
04:25-04:50 pm	Corinna Hawkes: The multiple burdens of malnutrition: what know and what we need to know more about		
04:50-05:15 pm	Steve Wiggins: Responding to obesity in the developing world: a wicked, complex or complicated problem?		
TOPIC 2: THE ROLE OF THE PRIVATE SECTOR IN THE PREVENTION OF THE DOUBLE BURDEN			
Chairs: Michael B. Krawinkel and Noel W. Solomons			Room: Audimax
05:15-05:35 pm	Manfred Eggersdorfer: Perspectives on energy/nutrient density – too high and too low		
05:35-05:55 pm	Patrick Coppens: The role of supplementation to bridge dietary gaps		
05:55-06:15 pm	Els de Groene: From individual nutrients to sustainable nutrition		
06:15-06:35 pm	Patrick Detzel: Market driven food fortification to address dietary needs		
06:35-07:05 pm	PANEL DISCUSSION Panelists: Manfred Eggersdorfer, Patrick Coppens, Els de Groene, Patrick Detzel		
07:05-07:30 pm BREAK			
07:30 pm	Come Together at the Mensa / Canteen of the University of Hohenheim		



PARALLEL SESSION ORGANIZED BY THE HOHENHEIM RESEARCH CENTER FOR GLOBAL FOOD SECURITY AND ECOSYSTEMS:

BEEF OR BEANS? PROTEIN TRANSITION AND THE DOUBLE BURDEN

Chair: Alicia Kolmans Room: Ö2

- 02:30-02:45 pm Harry Aiking: Urgency of a protein transition for food and nutrition security
- 02:45-03:00 pm Mizeck Chagunda: How to put livestock-derived foods on the plates of people who need them most in a sustainable manner?
- 03:00-03:15 pm Marta W. Vasconcelos: The role of legume grains in meat-reduced diets (regardless of labels)
- 03:15-03:35 pm PANEL DISCUSSION
Panelists: Harry Aiking, Mizeck Chagunda, Marta W. Vasconcelos

DAY 2 – THURSDAY, FEBRUARY 28, 2019 – PROGRAM

Venue: University of Hohenheim

08:45-08:55 am Regina Birner and Hans K. Biesalski: Introduction to day 2 Room: Audimax

TOPIC 3: POLICIES AND STRATEGIES TO COMBAT THE DOUBLE BURDEN OF MALNUTRITION

TOPIC 3 – SESSION 1: Policies and strategies to combat the double burden of malnutrition

Chairs: Regina Birner and Klaus Kraemer Room: Audimax

08:55-09:15 am Lawrence Haddad: Public-private approaches to alleviate the double burden: What works?

09:15-09:35 am Michael B. Krawinkel: The double burden calls for better diet quality worldwide

09:35-09:55 am Howarth Bouis: Strategies for improving dietary quality

09:55-10:15 am Elliot M. Berry: Food insecurity, social inequality and sustainability

10:15-10:40 am PANEL DISCUSSION
Panelists: Lawrence Haddad, Michael B. Krawinkel, Howarth Bouis, Elliot M. Berry

10:40-11:10 am **COFFEE BREAK**

TOPIC 3 – SESSION 2: What can international organizations do?

Chair: Joachim von Braun Room: Audimax

11:10-11:25 am Saskia de Pee: Situation analysis and multi-sectoral decision making to reduce double-burden of malnutrition – examples from the Fill the Nutrient-Gap (FNG) approach

11:25-11:40 am Mathias Mogge: Programming Towards Improved Nutrition: WHH's approach to the prevention of malnutrition – in all its forms

11:40-11:55 am Karel Callens: The role of food systems and diets in preventing malnutrition – an FAO perspective

11:55-12:10 pm Rolf D. W. Klemm: Knowledge, Nudge or Nanny – A triple opportunity for civil society's response to the triple burden of malnutrition

12:10-12:40 pm PANEL DISCUSSION
Panelists: Saskia de Pee, Mathias Mogge, Karel Callens, Rolf D. W. Klemm

12:40-02:00 pm **LUNCH BREAK & VISIT OF POSTER EXHIBITION**

PARALLEL SESSIONS: TOPIC 3 – SESSION 3: Double burden: Impact and future projections

02:00-03:10 pm Chair: Manfred Zeller Room: Audimax

02:00-02:25 pm Bruce Cogill: Changing diets and the impact of the double burden of malnutrition

02:25-02:50 pm Kirsten Boysen-Urban: Future pathways: Results of a global economic model

02:50-03:10 pm Leonard Buuma: Double burden of malnutrition and climate change effects on food and nutrition security

03:10-03:40 pm **COFFEE BREAK**

Program after coffee break see page 16

PARALLEL SESSION ORGANIZED BY SIGHT & LIFE FOUNDATION:

THE ROLE OF DEMAND CREATION IN ADDRESSING THE DOUBLE BURDEN OF MALNUTRITION

Chairs: Breda Gavin-Smith and Alessandro Demaio Room: Ö1

02:00-02:15 pm Rowena Merritt: The role of demand creation across the food system in addressing the double burden of malnutrition – setting the scene

02:15-02:30 pm Amy Deptford: Identifying opportunities to increase supply and demand for nutritious foods – the Fill the Nutrient Gap assessment of the food system

02:30-02:40 pm Daniel Amanquah: An example of a double duty in action – incorporating demand creation as a key component in improving micronutrient intake in Ghana – the case of OBAASIMA

02:40-02:50 pm Paul Newnham: Chef's Manifesto – leveraging chefs to create demand for healthier foods

02:50-03:10 pm PANEL DISCUSSION
Panelists: Rowena Merritt, Amy Deptford, Daniel Amanquah, Paul Newnham

PARALLEL SESSION ORGANIZED BY DEUTSCHE GESELLSCHAFT FÜR INTERNATIONALE ZUSAM- MENARBEIT (GIZ) GMBH:

GLOBAL PROGRAMME ON “FOOD AND NUTRITION SECURITY, ENHANCED RESILIENCE”

Chair: Simon Riedel Room: Ö2

02:00-02:10 pm Introduction of the Global Programme “Food and Nutrition Security, Enhanced Resilience” of the Special Initiative “One World – No Hunger”

02:10-02:25 pm Archana Sarkar: Influence of socio-demographic inequalities on dietary diversity and household food insecurity: An in-depth nutrition baseline survey conducted in Madhya Pradesh

02:25-02:40 pm DISCUSSION

02:40-02:55 pm Archana Sarkar: Nutrition education and healthy diet practices through Participatory Learning and Action as instrument to enhance dietary diversity of women: Key findings of a mid-line study in Madhya Pradesh, India

02:55-03:10 pm DISCUSSION

DAY 2 – THURSDAY, FEBRUARY 28, 2019 – PROGRAM

Venue: University of Hohenheim

PARALLEL SESSIONS: 03:40-04:50 pm	TOPIC 4: DIFFERENT TYPES OF INTERVENTIONS: WHAT WORKS WHERE AND WHY?	
	TOPIC 4 – SESSION 1A: Educational approaches and nudging	TOPIC 4 – SESSION 1B: Regulatory approaches, labeling and taxes
	Chair: Kirsten Boysen-Urban Room: Audimax	Chair: Marc Birringer Room: Ö1
03:40-04:05 pm	Sebastian Vollmer: Research on India	Jørgen Deigaard Jensen: The Danish tax on saturated fats
04:05-04:30 pm	Menisa Antonio: Expanding the agricultural education reach through indigenous plants for food and nutrition of local communities in Ilocos Norte province, the Philippines	Barbara Schneeman: Nutrition labelling for foods
04:30-04:50 pm	Agathe Diamo: How Smart Food Concept can lead to transformation of food systems and combat hunger and malnutrition?	Dheeraj Singh: Seed village programme: A practical approach for combating malnutrition and assuring nutritional security in arid Zone
04:50 pm	End of congress day 2	

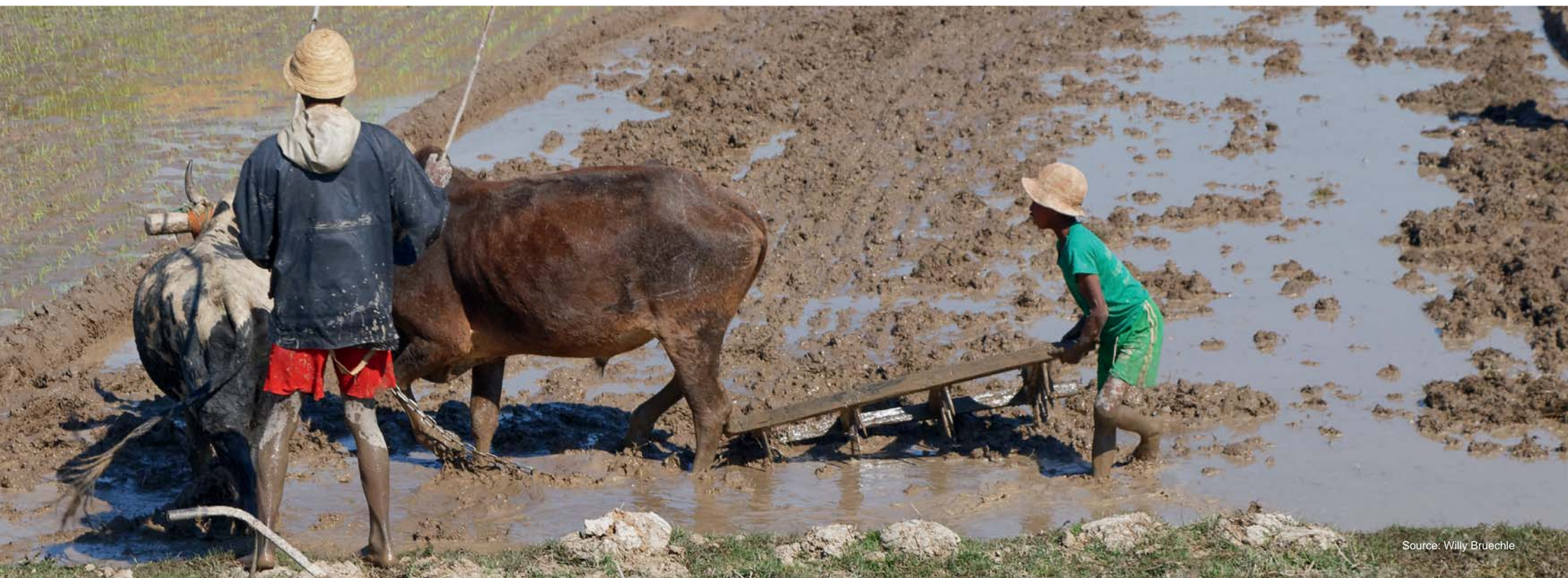
PARALLEL SESSION

ORGANIZED BY

SABRI ÜLKER FOOD RESEARCH FOUNDATION:

POPULAR DIETS AND HEALTH EFFECTS: ARE THEY RELATED TO HIDDEN HUNGER?

Chair: Ali Atif Bir		Room: Ö2
03:40-03:55 pm	Laura Fernández Celemín: EUFIC Research: Diets undone: hype or healthy?	
03:55-04:10 pm	Hans Konrad Biesalski: Popular Diets: Can they cause hidden hunger?	
04:10-04:25 pm	Ali Atif Bir: Communication in health and science: Ethical codes of science journalism	
04:25-04:40 pm	Selen Tokcan Hacıoğlu: Nutrition and Health Communication Education Programme and For Accurate Science Project of Sabri Ülker Foundation: Implementations from Turkey	
04:40-04:50 pm	DISCUSSION	



Source: Willy Bruechle

DAY 3 – FRIDAY, MARCH 1, 2019 – PROGRAM

Venue: University of Hohenheim		
08:30-08:40 am	Regina Birner and Hans K. Biesalski: Introduction to day 3	Room: Audimax
TOPIC 5: REFLECTIONS ON RESEARCH NEEDS		
Chair: Jan Frank		Room: Audimax
08:40-09:05 am	Prabhu Pingali: Strategies to combat the double burden: What works where and why?	
09:05-09:30 am	Jonathan Wells: The dual burden of malnutrition and childbirth: stunting, obesity and the risk of cesarean delivery	
09:30-09:55 am	Adam Drewnowski: Foods that are nutrient rich, affordable, accessible, and appealing – What metrics are needed?	
09:55-10:30 am	COFFEE BREAK	
SPECIAL SESSION of the Ministry of Rural Affairs and Consumer Protection of Baden-Württemberg (MLR), University of Burundi, Food Security Center (University of Hohenheim), and the University of Applied Forest Sciences Rottenburg: Burundi		
Chair: Stiftung Entwicklungszusammenarbeit Baden-Württemberg (SEZ)		Room: Audimax
10:30-10:40 am	Welcome speech from Grit Puchan (Ministerial Director, Ministry of Rural Affairs and Consumer Protection of Baden-Württemberg (MLR))	
10:40-10:50 am	Heidi E. Megerle: Water-Energy-Food Nexus – Case study Burundi	
10:50-11:10 am	Aloys Misago: Food security in Burundi – Challenges related to the socio-economic context	
11:10-11:30 am	Sanctus Niragira: Farm household vulnerability and food security challenge in Burundi	
11:30-12:00 am	PANEL DISCUSSION: Burundi – Baden-Württemberg Partnership: Facing the challenge of food and nutrition security Panelists: Grit Puchan, Heidi E. Megerle, Aloys Misago, Pascal Nkurunziza, Andreas Weber, Jan Frank	
BEST POSTER AWARD		
Chair: Jan Frank		Room: Audimax
12:00-12:30 pm	The Society of Nutrition and Food Science (SNFS) will award the three best poster presentations with a prize up to 300 €. We are delighted to announce and inform the three presenters directly during the congress.	
12:30-01:30 pm	LUNCH BREAK	

PARALLEL SESSIONS:	TOPIC 4 (CONTINUED): DIFFERENT TYPES OF INTERVENTIONS: WHAT WORKS WHERE AND WHY?	ADDITIONAL CONTRIBUTIONS
	TOPIC 4 – SESSION 2: Assessment of micronutrient gaps	JUNIOR SCIENTISTS AND NGO REPRESENTATIVES PRESENT ...
	Chair: Thomas Daum Room: Audimax	Chair: Donatus Nohr Room: Ö1
01:30-01:55 pm	Simon Riedel: CIMI – An Android App for a rapid assessment of micronutrient deficits	Fru A. Wanka: An examination of patterns and distribution of overweight among children in South Africa
01:55-02:20 pm	Andrea Fongar: What can we learn from using different dietary and nutrition assessment tools? Insights from rural Kenya	Hedwig Acham: The nutrition landscape and hidden hunger in Uganda
02:20-02:40 pm	Tamara Meleshko: Targeted microbiome correction by nutrition and pharmabiotics	Luis A. Polanco Medina: Seasonal food access as a pathway to the double burden of malnutrition: a case study of smallholder coffee farmers in Bolivia
02:40-03:00 pm	Rajesh K. Rai: Changing burden of underweight and overweight/obesity among rural Indian adults: A prospective cohort study of anthropometry surveillance data	Erick Boy: The double benefit of biofortification: prevention of micronutrient deficiencies and potential reduction of metabolic syndrome through reduced oxidative stress in at risk populations
03:00-03:30 pm	COFFEE BREAK	
PARALLEL SESSIONS:	TOPIC 4 – SESSION 3: Health effects and prevention	JUNIOR SCIENTISTS AND NGO REPRESENTATIVES PRESENT ... (CONTINUED)
	Chair: Sabine Gabrysch Room: Audimax	Chair: Donatus Nohr Room: Ö1
03:30-03:55 pm	Sabine Gabrysch: The long shadow of undernutrition during pregnancy: A trial in Bangladesh covering the full 1000 days and the quasi-experiment of Ramadan in utero	Gaudence Nishimwe: Physico-chemical and sensory profile of the new papaya hybrid lines in Kenya
03:55-04:20 pm	Nicole Darmon: Opticourses, from research to real life intervention: Improving the nutritional quality for price ratio of food purchases of socio-economically disadvantaged households	Benjamin Bodirsky: Starved and stuffed: Outcomes of an advancing food demand transition
04:20-04:40 pm	Lydia Pedun Aisu: Using women's savings groups "Merry Go Rounds" to improve dietary diversity of women (15-49 years) and children 6-23 months in Uganda	Lukas Kornher: How to cope with food price shocks? – Assessing children's nutritional status using blood-based biomarkers from Tanzania
04:40-05:00 pm	Emily C. Keats: What works to improve the health and nutritional status of children under-five in low and middle-income countries? Evidence from a systematic review and meta-analysis	Sahrah Fischer: More drought, better food – Drought effects on nutrient composition, a neglected climate change issue?
05:00-05:30 pm	Closing ceremony	



BEEF OR BEANS?

PROTEIN TRANSITION AND THE DOUBLE BURDEN

Date: Wednesday, February 27, 2019
Time: 02:30-03:35 pm
Venue: University of Hohenheim, Room: Ö2

(See program page 13)

Consuming predominantly plant-based diets reduces the risk of developing obesity, diabetes, cardiovascular diseases, and some forms of cancer (1,2,3). WHO and other health agencies are therefore advising populations to reduce animal source food consumption as part of an overall healthy diet. At the same time, there is also evidence for the nutritional benefits of providing poor families and especially children, particularly in countries in Africa and South Asia where undernutrition is highest, with livestock-derived foods such as meat, milk and eggs (4).

The three inputs and the final discussion of this session aim to bring together the different perspectives and to collect possible answers to the following questions:

- What are the strategies for an equitably distributed and healthy protein mix on our plates?
- Which differences in macro- and micronutrient supply, costs and access are relevant?

About the Hohenheim Research Center for Global Food Security and Ecosystems (GFE):

Acts as platform for the development and implementation of research projects on global food security and eco-systems within the University of Hohenheim. The mission is to provide innovative scientific contributions towards achieving food security while protecting the environment sustainably. Considering the global increase in nutritional problems, such as micronutrient deficiencies and obesity, new patterns of production and consumption need to be found, taking into account that resources – such as water, land, soil, nutrients and biodiversity – are scarce.

For detailed information: <https://gfe.uni-hohenheim.de/en>

References:

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SIGHT AND LIFE FOUNDATION
THE ROLE OF DEMAND CREATION
IN ADDRESSING THE DOUBLE BURDEN
OF MALNUTRITION



Date: Thursday, February 28, 2019
Time: 02:00-03:10 pm
Venue: University of Hohenheim, Room: Ö1

(See program page 15)

The data is alarming. 462 million people are underweight, two billion people overweight or obese while the same estimate suffers from hidden hunger. Addressing malnutrition in all its forms and improving the diets of more than two billion people is one of the greatest public health challenges. With most food consumed across the world being obtained from the marketplace, from large, multinational companies to small street vendors, businesses have a significant influence on the food people eat. However, businesses are interested in promoting their own products, thus there is a need for wide ranging market development for more affordable, accessible, nutritious food involving all sectors not just private industry.

There is increasing recognition on the role of demand creation for improving consumption of nutritious foods. Food purchase drivers, and subsequent purchase decisions, need to be addressed to adopt healthy eating behavior and improve diets. What motivates consumers to buy and consume more nutritious foods? How can we make nutritious diets and foods more desirable to consumers?

The aim of this session is to understand the significant role of demand creation in improving the consumption of healthy nutritious foods. We will first examine the principles underpinning demand creation, look at the importance of advocacy tools to better understand and generate demand, review a demand driven initiative in Ghana and finally hear how to engage diverse actors in creating demand for healthier foods.

The session begins with Dr. Merritt from the National Marketing Centre UK who will provide an overview on demand creation as an approach to address the double burden of malnutrition. Broader market development requires many elements including advocacy, and the World Food Programme will present 'The Fill the Nutrient Gap' tool in this regard. OBAASIMA is a trusted consumer symbol for fortified foods aimed at increasing the availability of and access to affordable, safe, and nutritious foods in Ghana. Sight and Life will describe how the project uses a demand driven approach to address micronutrient deficiencies. Finally, colleagues from the SDG2 Hub will discuss how they are leveraging chefs to increase demand for healthier foods.

For detailed information about the Sight and Life Foundation: <https://sightandlife.org>



GLOBAL PROGRAMME ON “FOOD AND NUTRITION SECURITY, ENHANCED RESILIENCE”

Date: Thursday, February 28, 2019
Time: 02:00-03:10 pm
Venue: University of Hohenheim, Room: Ö2

(See program page 15)

- Underlying mechanism of socio-demographic factors, behavioural practices and access to services affecting the dietary diversity and food availability among women and infants (6-23 months) in India
- Nutrition education and healthy diet practices through participatory learning and action as an instrument to enhance dietary diversity of women in India

As part of the Special Initiative “One World – No Hunger” by the German Federal Ministry for Economic Cooperation and Development (BMZ), the Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) is implementing the Global Programme on “Food and Nutrition Security, Enhanced Resilience” in 12 countries: Burkina Faso, Mali, Togo, Benin, Zambia, Malawi, Kenya, Ethiopia, Yemen, India, Cambodia and Madagascar.

In each country, the programme follows a multi-sectoral approach to achieve sustainable improvement in the field of food security and nutrition. Activities are diverse and tailored to meet the various challenges in each region. Overall, the programme aims to improve dietary diversity especially for women in reproductive age (15-49 years) and infants up to 2 years, as nutrient-dense food is the key for a healthy development.

The session will introduce the work of the Global Programme on “Food and Nutrition Security, Enhanced Resilience” as well as present data of two different surveys conducted in India, one of our 12 cooperating countries.

The first presentation will focus on underlying mechanism of socio-demographic factors, behavioural practices and access to services affecting the dietary diversity and food availability among women and infants (6-23 months) in the intervention districts Sheopur and Chhatarpur in Madhya Pradesh, India. Minimum Acceptable Diet (MAD) scores for children and Individual Dietary Diversity Scores (IDDS) for women indicate their dietary diversity. The study “Influence of Socio-Demographic Inequalities on Dietary Diversity and Household Food Insecurity” shows that surveyed women

and infants faced burden of malnutrition due to belonging to lower socio-economic and demographic conditions with lower access to information and services. Nevertheless, women who received nutrition counselling were more likely to have a higher IDDS irrespective of factors such as religion, caste, income and education level and infants are more likely to receive adequate food.

The second presentation will focus on nutrition education and healthy diet practices through participatory learning and action as an instrument to enhance dietary diversity of women. The key findings of a mid-line study in the district Madhya Pradesh, India, will be presented to discuss the impact of the related activities. To improve the nutrition situation of women in reproductive age (15-49 years) with low socio-economic status and infants (6-23 months) a Participatory Learning Action (PLA) cascade approach of nutrition education is applied. It comprises structured sessions delivered by trained frontline workers, informing women about dietary diversity, hygiene, infant and young child feeding practices, locally available food resources and seasonality as well as the creation and maintenance of kitchen gardens. A midline assessment of 2018 showed that structured and continuous sessions on nutrition education and capacity building of frontline workers improved knowledge of good nutrition practices and dietary diversity among women.

Who we are:

As a federally owned enterprise, GIZ supports the German Government in achieving its objectives in the field of international cooperation for sustainable development. GIZ has over 50 years of experience in a wide variety of areas, including economic development and employment promotion, energy and the environment, and peace and security. The diverse expertise of our federal enterprise is in demand around the globe – from the German Government, European Union institutions, the United Nations, the private sector and governments of other countries. We work with businesses, civil society actors and research institutions, fostering successful interaction between development policy and other policy fields and areas of activity. Our main commissioning party is the German Federal Ministry for Economic Cooperation and Development (BMZ).

For detailed information: <https://www.giz.de>

SABRI ÜLKER FOOD RESEARCH FOUNDATION
POPULAR DIETS AND HEALTH EFFECTS:
ARE THEY RELATED TO HIDDEN HUNGER?



Date: Thursday, February 28, 2019
Time: 03:40-04:50 pm
Venue: University of Hohenheim, Room: Ö2

(See program page 17)

In the last decades interest for food and health issues has not ceased to increase globally. Consumers typically obtain information on issues related to food, nutrition and health via a wide variety of media channels including TV, radio, newspapers, the Internet, and social media. Those media play thus a critical role in how people receive messages and have the potential to affect their views and food choices. Unfortunately, the messages that reach consumers through the different channels can be conflicting, inaccurate or confusing.

Popular diets is one of the biggest hot topic in nutrition communication, read by millions of people, and where the information available is not always fact-based (1).

A recent review by the British Medical Journal on the role of food in weight-management found that no particular dietary method has been shown to achieve superior results in terms of long-term weight maintenance (2). Furthermore, there is no evidence that any single food can increase or decrease our risk of weight gain and obesity, our overall diet and level of physical activity are the main factors in determining weight loss or weight gain! On the other hand there is a body of evidence indicating that an individual following a popular diet plan, with food alone, has a high likelihood of becoming micronutrient deficient; a state shown to be scientifically linked to an increased risk for many dangerous and debilitating health conditions and diseases (3). So, the evidence is clear, there is no miraculous diet for weight loss, nor are there particular foods that can manage weight on their own (4).

This session of the Sabri Ülker Food Research Foundation will focus on the health effects and the relation with hidden hunger of some popular diets, Low Carb, Gluten-Free, Paleo and Mediterranean. It will look at the way those diets are communicated in the media, discuss solutions for better communication and introduce the "For Accurate Science Platform" of Sabri Ülker Food Research Foundation as a worldwide best practice that aims to disseminate the current and reliable information to public about health and nutrition.

About Sabri Ülker Food Research Foundation:

Sabri Ülker Foundation is established in memory of Sabri Ülker; a doyen of the Turkish Food Industry and inspired by his philosophy of life. Sabri Ülker Foundation keeps up to date with reliable institutions and platforms that are highly regarded throughout the globe, and it is also the only Turkish member of the European Nutrition Foundations Communication Platform. Since 2009, the Foundation has continued to provide the public with accurate and reliable scientific information on healthy living and nutrition, forging ahead with its goal of becoming an exemplary organization.

For detailed information: <https://sabriulkerfoundation.org/en/>

References:

- (1) European Food Information Council (EUFIC), The Hype Diets Issue, 2018. <https://www.eufic.org/en/home/results/eyJyZXN1bHRfcGFnZSI6IlwvaG9tZVwvcmlVzdWx0cyIsImtleXdvcmRzIjoiaHlwZSBkaWV0cyJ9>
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SPECIAL SESSION

**GESELLSCHAFT FÜR ANGEWANDTE
VITAMINFORSCHUNG E. V. (GVF)**



Gesellschaft für angewandte
Vitaminforschung e. V.

THE ROLE OF THE PRIVATE SECTOR IN THE PREVENTION OF THE DOUBLE BURDEN

Date: Wednesday, February 27, 2019
Time: 05:15-07:05 pm
Venue: University of Hohenheim, Room: Audimax

(See program page 12)

One of the current challenges and opportunities in many countries (including the industrialized countries) is to support a healthy diet providing all macro- and micronutrients according to recommendations for a healthy life and healthy ageing. Humankind's most remarkable achievement is increased life expectancy. However, we face issues with overweight, obesity and non-communicable diseases. Food systems often fail to sufficiently deliver foods adequate in energy and essential vitamins and minerals such as vitamin A, D, E, iron, iodine, and folate. This failure is due to poor availability, access, affordability, and utilization of appropriate foods. The result is widespread insufficient status in micronutrients, in developing countries also deficiency. The most vulnerable populations include women of reproductive age, young children, and elderly. The World Health Organization has found evidence to link high consumption of energy-dense and low-nutrient foods to overweight, obesity and non-communicable diseases like osteoporosis, diabetes, cardio-vascular diseases, and others. Food fortification and supplementation is a safe and efficient way to prevent inadequate micronutrient status and deficiencies in Vitamin A, D, E, iron, iodine, folic acid, and zinc. The opportunity is to communicate the way how nutrition modulates health and advocate for healthy diets adequate in the ratio of energy and essential nutrients.

At the end of this session, attendees will be able to:

- Understand variations of energy/nutrient intake and nutrient status in different population groups
- The general population and especially age- and specific chronic disease groups may benefit from improved energy/nutrient intake for a healthy life
- Reformulation of consumer products and intake recommendations for micronutrients should be revisited taking new studies and findings into account

About the Gesellschaft für Angewandte Vitaminforschung e. V. (GVF):

GVF is an interdisciplinary forum for vitamins and functional nutrients. It informs about new scientific findings on the role of vitamins for health and well-being, promotes the scientific exchange and stimulates new research. GVF annually awards special services in the field of vitamins with a research award.

For detailed information: <https://vitaminforschung.org/home/>



FURTHER SPECIALS AND HIGHLIGHTS

PRESS CONFERENCE:

Date: Wednesday, February 27, 2019
Time: 01:15 pm
Venue: University of Hohenheim, Room: To be announced

COME TOGETHER EVENING:

We cordially invite all congress participants to come together and celebrate with us!

Date: Wednesday, February 27, 2019
Time: 07:30 pm
Venue: University of Hohenheim, Mensa / Canteen

Entrance is free and registration in advance is not required. Please take your conference badge with you.

BEST POSTER AWARD:



SOCIETY OF NUTRITION
AND FOOD SCIENCE

The **Society of Nutrition and Food Science (SNFS)** will award the three best poster presentations with a prize up to 300 €. We are delighted to announce and inform the three presenters directly during the congress on Friday, March 1, 2019, from 12:00 until 12:30 pm.

www.snfs.org



POSTER EXHIBITION:

Official visit of poster exhibition:

Date: Thursday, February 28, 2019
Time: 01:15-02:00 pm
Venue: Assigned and signposted area

During the official visit of poster exhibition all presenters are kindly asked to stand next to their posters and be available for questions. The posters will be on display for attendees to view in the assigned and signposted area throughout the full congress.



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SABRI ÜLKER
FOOD RESEARCH
FOUNDATION

PARTNERS



MAIN SPEAKERS, PANELISTS AND CHAIRS (WITHOUT ACADEMIC TITLES)



Aiking, Harry

With an MSc in biochemistry (1973) and a PhD in microbiology (1977), Harry Aiking, PhD ERT, worked as a research associate at Indiana University in Bloomington, USA, 1978-79. Subsequently, he became a KWF (Dutch Cancer Fund) Fellow at the Central Blood Bank Laboratory in Amsterdam before he joined VU University in Amsterdam in 1980. There he has been leading dozens of multidisciplinary projects on the interface of natural and social sciences. He has been Advisor to the Dutch Attorney General in cases of industrial soil pollution 1987-2014 and a European Registered Toxicologist (ERT) 1997-2018. During 1999-2005, he led the NWO programme PROFETAS (Protein Foods, Environment, Technology And Society). He authored about 400 publications. After his formal retirement in 2014, he was rehired by the Institute for Environmental Studies (IVM-VU) in 2017. Thus, he remains affiliated there, continuing to supervise PhD students, lecture and publish in the areas of food sustainability and food security.

Contact: harry.aiking@vu.nl



Amanquah Daniel

Daniel Amanquah obtained his first degree and masters in food science from the University of Ghana, in Accra. He worked for 4 years as a technical advisor at GIZ on food fortification and product development with the Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ).

As a food scientist, his main interests include product development, research into innovative technologies, nutrition and public health as well as project implementation and planning. He has also advised a number of companies on product development and fortification. He has been involved in the development of fortified foods for the Ghanaian market and continues to do so in his current capacity as the food fortification specialist for Sight and Life Foundation (Switzerland) under the Obaasima project in Ghana. Obaasima is a social business developed by Sight and Life Foundation (SAL) in partnership with the Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ), Bill and Melinda Gates Foundation (BMGF), Association of Ghana Industries (AGI) and the Ghana Standard Authority (GSA). The project has been designed to aid consumers make healthy food choices through an identifiable seal attached to approved fortified products.

Contact: daniel.amanquah@sightandlife.org



Anderson, Jock R.

Jock R. Anderson is Adjunct Professor at the Georgetown University, Washington, DC, USA, where he currently teaches (with Derek Byerlee) a Master's course on "Agriculture and Food for Development" at the Global Human Development Program, School of Foreign Service.

Jock left his home farm near Monto, Queensland, Australia, to study agricultural sciences, at the University of Queensland, and after completing his Master's degree and working as a research and extensionist agronomist, he pursued a PhD in agricultural economics at the University of New England, Armidale, Australia, where he later became Professor of Agricultural Economics, and Dean of the Faculty of Economic Studies, and was elected Emeritus Professor in 1992. Amongst his off campus-assignments, Jock served as a Visiting Professor in the Indian Agricultural Research Institute in New Delhi in 1972/3, and worked with several CGIAR Centers over the years. He directed the Impact Study of the entire CGIAR system from 1984 to 1986. In 1978/9 he served as Deputy Director and Chief Research Economist in the Australian Bureau of Agricultural and Resource Economics in Canberra. Jock joined the World Bank in 1989, where he served in various roles including Adviser, Strategy and Policy in the Agriculture and Rural Development Department. As a retiree since 2003, he works for various international organizations, including the International Food Policy Research Institute (IFPRI), USAID and the World Bank, and in 2011 led an evaluation of policy work at the Food and Agriculture Organization of the United Nations (FAO). Jock is currently serving as an Editor-in-Chief (with Elliot Berry and Pasquale Ferranti) in preparing an *Encyclopedia of Food Security and Sustainability* to be published by Elsevier. Jock is an Honorary Life Member of the International Association of Agricultural Economists, a Fellow of the Agricultural and Applied Economics Association, a Fellow of the Academy of the Social Sciences in Australia and Distinguished Fellow of the Australian Agricultural and Resource Economics Society.

Contact: jock.r.anderson@gmail.com



Atif Bir, Ali

Prof. Dr. Ali Atif Bir was born in Samsun, 1962. He was appointed to the Department of Advertising and Public Relations at the Anadolu University as research associate in 1984. He did master's degree in the same department in 1987. He did master's degree in the field of *Mass Communication and Advertising* at the Marquette University (Wisconsin-ABD) in 1989.

He was entitled to receive doctor title in the field of Advertising and Public Relations in 1992 and associate professor title in 1993. He was appointed as professor in 1998. In 1994, he was appointed as the deputy director of the Institute of Communication Sciences and took office as vice dean in the Faculty of Open University at the Anadolu University between 1995-2002. He took office as dean in the Faculty of Communication Sciences at the Anadolu University between January 2004-July 2005, and in the Faculty of Communication at the Bahçeşehir University in the 2005-2006 School year and served as the head of the Advertising Department at the Bahçeşehir University between 2006-2015. Between 1994-2003, he carried out duty as the technical consultant of *Television Audience Researches Committee*, the head of the auditing project of AGB Anadolu A.Ş., and auditor of the research "press reader" directed by TNS PIAR. He lectured in the Institute of Communication Sciences: Introduction to Advertising, Communication Researches, Public Researches, Advertisement Campaigns, Public Relations Campaigns, Communication Moral, Nonnumeric Research Methods. He lectured in postgraduate level: Marketing Communication Strategies, Advanced Research Techniques, Mass Communication Theories.

Columnist at Para magazine in 1997. Columnist at Hürriyet Newspaper between 2000-2007.

Production and presentation in various TV shows in 2004. Columnist at Mynet.com between 2007-2010. He prepared and presented the TV show "Atif Hoca ile Reklam ve Rekabet" in CNN-Türk. He presented a TV show "Başka Yerde Yok" in CINE5. TV show "Türkiyenin seçimi" in FlashTV is one of these TV shows. He appeared on the series "Ah Polis Olsam" as the Minister in Kanal D. He appeared on the series "Çok Özel TIM" as the Minister. He still lectures in the doctoral program of Advertising and Brand Management at Bahçeşehir University. He takes office as Chief Editor in publishing company "The Kitap Yayınları", which was founded by him in 2014.



Berry, Elliot M.

Professor Elliot M. Berry, MD, FRCP, graduated from the University of Cambridge, UK with distinction in medicine. His principal interests are the bio-psycho-social problems of weight regulation from obesity to anorexia nervosa, the metrics of nutritional assessment and the benefits of the Mediterranean diet; his laboratory research investigates the effects of nutrition on cognitive function. From a synthesis of this work he evolved the concept of the 'Sociotype' to understand how people cope with life stress and chronic diseases in general, and food insecurity in particular. Berry has published over 270 articles and chapters in books. He has been a visiting scientist at MIT, a distinguished visiting scholar at Christ's College, Cambridge and a visiting Professor at Yale University. Dr. Berry has been a consultant for the WHO, the World Bank and the Serbian Government in Public Health and Nutrition. He was the Director of the Braun School of Public Health & Community Medicine (2003-6) and Head of the WHO Collaborating Center in Capacity Building in Public Health (2007-2013). Berry was a consultant at FAO, Rome (2013-4) where, following his development and publication of the Global Nutrition Index, he worked on indicators for food security and sustainability. Berry has recently completed, as co-Editor-in-Chief, a three volume Encyclopaedia on Food Security and Sustainability (Elsevier) and he is currently Specialty Chief Editor for *Nutrition and Environmental Sustainability* as part of Frontiers in Nutrition. These responsibilities align well with membership of the United Nations Multistakeholder committee on Sustainable Food Systems, as part of the 10 year Framework Program.



Bhutta, Zulfiqar A.

Dr. Zulfiqar A. Bhutta is the Robert Harding Inaugural Chair in Global Child Health at the Hospital for Sick Children, Toronto, Co-Director of the SickKids Centre for Global Child Health and the Founding Director of the Centre of Excellence in Women and Child Health, at the Aga Khan University, unique joint appointments. He also holds adjunct professorships at several leading Universities globally including the Schools of Public Health at Johns Hopkins (Baltimore), Tufts University (Boston), Boston University School of Public Health, University of Alberta as well as the London School of Hygiene & Tropical Medicine. He is a designated Distinguished National Professor of the Government of Pakistan and was the Founding Chair of the National Research Ethics Committee of the Government of Pakistan from 2003-2014. Dr. Bhutta was a member of the Independent Expert Review Group (iERG) appointed by the UN Secretary General for monitoring global progress in maternal and child health MDGs (2011-2015). He represented the global academic and research organizations on the Global Alliance for Vaccines and Immunizations (Gavi) Board and serves on its Evaluation Advisory Committee. Dr. Bhutta is the co-Chair of the Global Countdown for 2015 and 2030 Initiatives from 2006-2017, the co-Chair of the Maternal and Child Health oversight committee of World Health Organization (WHO) Eastern Mediterranean Region (EMRO) and the Chairman of the Coalition of Centres in Global Child Health with its secretariat based at the Hospital for Sick Children, Toronto. He is a technical member of the recently appointed high-level UN Health and Human Rights committee, an executive committee member of Partnership for Maternal, Newborn & Child Health (PMNCH) and a member of the Independent Expert Group producing the Global Nutrition Reports since 2014.

Professor Bhutta was educated at the University of Peshawar (MBBS) and obtained his PhD from the Karolinska Institute, Sweden. He is a Fellow of the Royal College of Physicians (Edinburgh & London), the Royal College of Paediatrics and Child Health (London), American Academy of Pediatrics and the Pakistan Academy of Sciences. He heads a large research team in Pakistan working on issues of maternal,

newborn and child survival and nutrition globally and regionally. Dr. Bhutta has served as a member of the Global Advisory Committee for Health Research for the World Health Organization, the Board of Child & Health and Nutrition Initiative of Global Forum for Health Research, and the steering committees of the International Zinc and Vitamin A Nutrition Consultative Groups. He was a founding Board member of the PMNCH and a board member of the International Center for Diarrheal Diseases Research (2011-2017). Dr. Bhutta was a member of the WHO Strategic Advisory Committee for Vaccines (SAGE) from 2010-15 and the Advisory Committee for Health Research of the WHO EMRO. He is the past-President of the Commonwealth Association of Paediatric Gastroenterology and Nutrition (CAPGAN) and the Federation of Asia-Oceania Perinatal Societies (FAOPS) and as the current President of the International Pediatric Association (IPA 2016-2019), is a leading voice for health professionals supporting integrated maternal, newborn and child health globally.

Dr. Bhutta is on several international editorial advisory boards including the Lancet, BMJ, PLoS Medicine, PLoS ONE, BMC Public Health and the Cochrane CDPLG and ARI groups. He has published eight books, 88 book chapters, and over 850 indexed publications to date, including > 150 in the world's leading journal Lancet alone. He is one of the most highly cited academics in global health (H index 129, i10 index 602, >91,000 citations) and was ranked among the top 1 % of Highly Cited Researchers globally by the Web of Science in 2017 and 2018. He has been a leading member of recent major Lancet series on Child Survival (2003), Newborn Survival (2005 & 2014), Undernutrition (2008 & 2013), Primary Care (2008) Stillbirths (2011 & 2016), Pakistan (2013) as well as the recent series on Childhood Diarrhea and Pneumonia (2013), Early Child Development (2016) and Lancet Commissions on Education for Health Professionals for the 21st century (2010), Women & Health (2015), Indigenous Health (2016) and Adolescent Health (2016). He has won several awards, including the *Tamgha-i-Imtiaz* (Medal of Excellence) by the President of Pakistan for contributions towards education and research (2000), the President of Pakistan Gold Medal for contributions to Child Health in Pakistan (2004) and the Outstanding Pediatrician of Asia award by the Asia Pacific Pediatric Association (2006). He is the first dual recipient of the Aga Khan University Distinguished Faculty Award for Research (2005) and Award of Distinction (2012). Dr. Bhutta was awarded the inaugural Programme for Global Pediatric Research Award for Outstanding Contributions to Global Child Health (2009) and the Kenneth Warren prize for the best systematic review of community based interventions by the Cochrane collaboration in 2011. Dr. Bhutta was recognized with the Global Advocacy Prize by the Royal College of Paediatrics & Child Health in 2012, the American Academy of Pediatrics' Sam Fomon Award for lifetime contributions to Nutrition Research (2014), the WHO Ihsan Dogramaci Family Health award (2014), the inaugural TUBA Academy of Sciences Award for global contributions to Health and Life Sciences (2015), University of Toledo Medical Missions Hall of Fame Award (2016) and the McKinsey Geneva Forum for Health award for contributions to maternal and child health globally (2016). In 2016, Dr. Bhutta was recognized with the President of Pakistan Pride of Performance Award for contributions towards Education and Health and the World Academy of Sciences (Trieste) awarded him the TWAS Prize in Medical Sciences. In 2017 the Pakistan Council for Science & Technology rated Dr. Bhutta as the highest ranking scientist from Pakistan across all disciplines; he was also recognized by the Senate of Canada with its Canada 150 Medal for contributions to Global Child Health and given the BMJ Award for Outstanding contributions to South Asia. Dr. Bhutta was admitted to the National Academy of Medicine, the highest academic and scientific platform in October 2018.

Dr. Bhutta's research interests include newborn and child survival, maternal and child undernutrition and micronutrient deficiencies. He leads large research groups based in Toronto, Karachi and Nairobi with a special interest in research synthesis, scaling up evidence based interventions in community settings and implementation research in difficult circumstances. In particular, his work with community health workers and outreach services has influenced integrated maternal and newborn outreach programs for marginalized populations all over the world. His group's work with the WHO and PMNCH in developing consensus based essential interventions for women, children and adolescents is the dominant set of agreed interventions guiding global policy. Presently Professor Bhutta is leading two global academic consortia; one working on improving reproductive, maternal and child health in conflict settings and humanitarian emergencies and the other focused on integrated investments to improve child and adolescent health across the life course.



Biesalski Hans K.

Prof. Dr. med. H. K. Biesalski was head of the Institute of Biological Chemistry and Nutrition (1994-2016) as well as Director of the Food Security Center (FSC) at the University of Hohenheim in Stuttgart, Germany (2013-2017).

Prof. Dr. Biesalski has over 30 years' experience in research on retinoids and their actions on cellular growth and differentiation, vitamin A and human health, especially lung diseases. First, his research activities have concentrated on antioxidants and vitamins in basic and applied research on reactive oxygen species and their role in human nutrition. Since 2010, his research is related to food quality as an indicator of adequate and healthy nutrition and micronutrients in human health and disease.

Prof. Dr. Biesalski is Editor of the journal "Nutrition and metabolism in cancer" as well as European Editor of "Nutrition and Metabolism". He has edited 7 textbooks related to nutrition medicine, nutrition physiology, clinical nutrition and aging (some of them translated in English, French, Spanish and Chinese) and published more than 330 peer-reviewed papers in the most prestigious scientific journals dealing with nutrition, vitamins and nutrition medicine. He organized and chaired several international conferences in particular the 1st, 2nd and 3rd International Congress Hidden Hunger (in 2013, 2015 and 2017). Together with Prof. Dr. Regina Birner he organizes and chairs the 4th Congress Hidden Hunger (02-28-2019 to 03-01-2019).

As Principle Investigator of nutrition studies in developing countries, he studied the impact of DDT on vitamin A status in refugee camps, nutrition and food quality including RUF (ready-to-use food) in developing countries (Thailand, Indonesia, Vietnam, Ethiopia, Kenya, Samoa), the impact of climate change on food quality (Collaborate Research Center University Hohenheim and Hebrew University) and the characterization of Ethiopian edible oils and its improved use in Ethiopian diets. Furthermore, he has developed IT based programs (with specific scoring systems to detect malnutrition and micronutrient intake in different groups (children, pregnant women and elderly, cancer patients); the programs are used in different trials to assess the individual nutrition status and to control intervention trials.

Prof. Dr. Biesalski is a member of different international societies and vitamin consultative groups, e. g. the WHO/FAO Expert Group Application of Nanotechnologies in the Food and Agriculture Sectors (Potential Food Safety Implications), the FAO/WHO BOND Initiative (Biomarker of Nutritional Deficiencies) and the High Level Panel of Expert Group of the Global Forum on Food Security and Nutrition. In 2007, he was elected as scholar of the Institute of Advanced Studies, Berlin and in 2017 he got the prestigious Justus von Liebig Award.



Birner, Regina

Regina Birner is Chair of Social and Institutional Change in Agricultural Development at the University of Hohenheim, Germany. Prior to joining the university in 2010, she was a Senior Research Fellow at the International Food Policy Research Institute (IFPRI), where she led IFPRI's Research Program on "Governance for Agriculture and Rural Development". Her research focuses on the political economy of agricultural policy processes and on the role of governance and institutions in agricultural development, with a focus on smallholder farming. Gender is a cross-cutting concern in her research. Regina Birner has extensive empirical research experience in Africa and in South and South-East Asia, and she has published widely in these fields.

Regina Birner is a member of the Advisory Council on Agricultural and Food Policy of the German Federal Ministry of Food and Agriculture (BMEL) and a member of the Advisory Council on Bioeconomy of the

German Federal Government. She has been consulting with international organizations, including the World Bank, the Food and Agriculture Organization (FAO) and the International Fund for Agricultural Development (IFAD). Regina Birner holds a PhD in Socio-Economics of Agricultural Development from the University of Göttingen. She received her M.Sc. degree in Agricultural Sciences from the Technische Universität München-Weihenstephan, Germany.



Birringer, Marc

Dr. Marc Birringer is Professor for Applied Nutritional and Environmental Biochemistry at the Department of Nutritional, Food and Consumer Sciences of Fulda University of Applied Sciences Germany. He started his academic career in Siegen where he received his PhD. In 1998 he studied the anticancer activity of seleno-amino acids with Eric Block at the University of Albany (NY/USA). In 1999, he joined the lab of Regina Brigelius-Flohé at the German Institute of Nutrition where he investigated human vitamin E metabolism and anticancer properties of newly synthesized tocopheryl-derivatives.

In 2002, Dr. Marc Birringer co-founded *peptides&elephants* GmbH. He was head of the research and development unit and responsible for the conception of a high throughput synthesizer for peptide libraries and the development of tissue specific drug-peptide conjugates. Between 2005 and 2010, he worked in the laboratory of Michael Ristow at the University of Jena on diet-induced mitochondrial activation and ageing. During that time, he received his *habilitation* in human nutrition. In 2011, Marc Birringer became Full Professor for Applied Nutritional and Environmental Biochemistry at the Department of Nutritional, Food and Consumer Sciences of Fulda University of Applied Sciences. His current research is focussed on the metabolism of dietary micronutrients such as vitamins and trace minerals.

Dr. Marc Birringer is president of the Gesellschaft für Angewandte Vitaminforschung e.V. and member of the Editorial Board of NFS Journal (Nutrition and Food Science). He is author and co-author of more than 90 publications and reviews.

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Bouis, Howarth

Dr. Howarth Bouis was awarded the World Food Prize in 2016, along with colleagues from the International Potato Center, in recognition of his efforts over 25 years to promote and implement biofortification, the interdisciplinary, global effort to improve nutrition and health by developing and disseminating micronutrient-rich staple food crops. Bouis helped pioneer this concept in the early 1990s and devoted his career to turning this idea into a global movement that currently reaches more than 30 million people in rural farming families in developing countries. The vision is that most of the staple food crop supply in developing countries will be biofortified, with the hope of reaching several hundred million more beneficiaries in the coming decade.

Dr. Bouis is the founding director of HarvestPlus, a joint program of the International Food Policy Research Institute (IFPRI) (Washington, D.C.) and the International Center for Tropical Agriculture (CIAT) (Cali, Colombia). Using conventional breeding techniques, HarvestPlus and its 400+ partners deliver staple food crops – including beans, cassava, maize, pearl millet, rice, sweet potato, and wheat – that provide higher amounts of vitamin A, iron, or zinc, three micronutrients identified by the World Health Organization as most lacking in diets globally. Biofortified crops have been released or are being tested in 60 countries around the world. Dr. Bouis currently serves as the interim CEO of HarvestPlus. He also serves on HarvestPlus' Program Advisory Committee and chairs the Board of Trustees of the Micronutri-

ent Forum. Prior to serving as HarvestPlus Interim CEO, Bouis was an Institute Fellow at IFPRI and guest scientist at the International Rice Research Institute, residing in the Philippines. In 2017, he was awarded the degree of Doctor of Science, Honoris Causa, by the University of Greenwich.

Dr. Bouis received his B.A. in economics from Stanford University and his M.A. and Ph.D. from Stanford University's Food Research Institute. After receiving his Ph.D., Bouis was offered a postdoctoral position in 1982 in the Food Consumption and Nutrition Division of IFPRI to undertake a two-year research project on the Philippines. He subsequently worked as a Research Fellow and Senior Research Fellow in the same division. His research concentrated on understanding how economic factors affect food demand and nutrition outcomes, particularly in Asia. Insights gained during this research led him to propose the concept of biofortification. Prior to beginning his graduate studies, Bouis worked for three years as a volunteer in the Philippines with Volunteers in Asia.



Boysen-Urban, Kirsten

Dr. Kirsten Boysen-Urban is the Interim Professor and Head of the Department of International Agricultural Trade and Food Security at the University of Hohenheim since 2017. She is the representative of the University of Hohenheim in the advisory board of the Global Trade Analysis Project (GTAP). Her research mainly develops and applies computable general equilibrium modeling techniques to analyze the economic effects of international trade and domestic support policies and the impact of different pathways for future demand and supply of agricultural and food commodities on global food and nutrition security. Specific research interests include the economic impact of regional trade agreements, the effects of agricultural policy reforms considering decoupled payments, risk management and safety-net instruments as well as policies to tackle obesity, undernutrition and diet quality and their impact on sustainability. From 2009 to 2017 she worked as researcher and lecturer at the Department of International Agricultural Trade and Food Security at the University of Hohenheim and taught courses in economics, international trade and food and nutrition security. Prior to joining the University of Hohenheim in 2009, she was a researcher at the Institute of Market Analysis and Agricultural Trade Policy, Thünen Institute in Braunschweig. Kirsten Boysen-Urban holds a PhD in Agricultural Economics (2015) from the University of Hohenheim and received M.Sc. degrees in Agricultural Sciences (2007) from Kiel University and in Agricultural Economics and Agribusiness (2008) from Kiel University and Wageningen University.



Branca, Francesco

Francesco Branca is the Director of the Department of Nutrition for Health and Development in the World Health Organization, Geneva. During his tenure, WHO has established a new nutrition guideline development process and has developed a Comprehensive Implementation Plan on Maternal, Infant and Young Child Nutrition with six global targets. He has been leading the preparation of the 2nd International Conference on Nutrition. He has been a Senior Scientist at the Italian Food and Nutrition research Institute where he was leading studies on the effects of food and nutrients on human health at the different stages of the life cycle and on the impact of public health nutrition programmes. He has been President of the Federation of the European Nutrition Societies in 2003-2007.

Dr. Branca graduated in Medicine and Surgery and specialized in Diabetology and Metabolic Diseases at the Università Cattolica del Sacro Cuore, Roma and obtained a PhD in Nutrition at Aberdeen University.



Callens, Karel

Karel Callens is Deputy Director of FAO's Strategic Programme on the Elimination of Hunger, Food Insecurity and Malnutrition. He is also the Manager of the joint EU-FAO FIRST Policy Assistance Facility, which provides policy assistance to over 34 countries worldwide on food security, nutrition and sustainable agriculture. He holds a Master's Degree in Food Science and Nutrition and a Master's Degree in Business Administration.

For more info, please refer to his LinkedIn Profile at: <https://www.linkedin.com/in/karel-callens-019a35/>



Chagunda, Mizeck

Mizeck Chagunda is a Professor and Chair of Animal Breeding and Husbandry in the Tropics and Subtropics at the University of Hohenheim. Prior to joining the University of Hohenheim, Prof. Chagunda was a Reader in Dairy Science and Interim Head of the SRUC Dairy Research and Innovation Centre at SRUC (Scotland's Rural College) in Scotland (2006 to 2018). During the 12 years at SRUC, he lead and was involved in a range of national and international research and development projects linking livestock systems to sustainable livelihoods and food security. From 2003 and 2006, he worked as a Project Scientist at the University of Aarhus in Denmark after working as a lecturer in animal breeding and genetics at the University of Malawi. Prof. Chagunda obtained his doctorate degree from the University of Göttingen, Germany. His current research is aimed at contributing towards developing efficient livestock systems that improve productivity for sustainable livelihoods while protecting the environment. Efficiency in this context includes, optimal breeding and feeding systems; early detection of production diseases and metabolic disorders; and quantification and mitigation of greenhouse gases from ruminant production systems.



Cogill, Bruce

Dr. Bruce Cogill is a research leader, global coordinator, project director, food, health and nutrition security specialist and advisor. He has over 30 years of emergency and development related experience with the United Nations, Governments, Universities and Foundations, mostly in Sub-Saharan Africa, South Asia and the South Pacific where he has lived and worked. He recently directed a global team of trans-disciplinary researchers at the Rome-based CGIAR centre, Bioversity International, studying agricultural biodiversity, dietary diversity, sustainable food systems/diets, health and nutrition. An important focus was the description and measurement of sustainable diets and food systems with the identification of strategic options and pathways that mainstream sustainable food systems into cross-cutting policy and development agendas in agriculture, health, and environment. He is currently a consultant and advisor to the Department of Foreign Affairs (DFAT), Government of Australia, a technical advisor for the Power of Nutrition, Wellcome Trust Foundation, Universities and Technical Groups. He is Associate Editor for nutrition for Global Health, Science and Practice Journal. He holds a Ph.D. and Masters in nutrition and agricultural economics from Cornell University and a Bachelor's degree in food science and technology from the University of Queensland. In addition to publications in technical journals and on-line resources, he has presented at numerous public and academic venues and lectured at universities including the

Mailman School of Public Health, Columbia University for over fifteen years. His professional experience combines a strong sense of the importance of participation to equally important rigorous empirical problem analysis and action.



Coppens, Patrick

Food Supplements Europe has been created in 2013 to represent the interests of the European food supplement sector. Its membership includes national associations and companies committed to ensuring that future EU legislation and policy reflects the important role that this sector plays in the health of consumers. As Director Scientific and Regulatory Affairs, Patrick Coppens is heading Food Supplement's Europe work in the area of food law, in particularly focusing on botanicals, REFIT and relationship with EFSA. He is also in charge of the organisation's scientific work in the field of public health.

Previously he has held various positions within the Dutch Royal Numico group in the area of scientific and regulatory affairs and quality assurance. He has been closely involved in debates on food safety, food labelling, health claims and addition of nutrients to foods both on national and international level. He also has worked as advisor to a number of trade bodies, including as Secretary-General of the European Responsible Nutrition Alliance and the European Botanical Forum. In January 2005 he joined EAS Strategies, the Brussels-based advisers specialising in regulatory and strategic advice on nutritional products, where he currently is the Managing Director for Europe, Middle-East and Africa.

Patrick is chair of the Belgian Food Law expert group and is a regular speaker at international conferences on various topics in the area of food law and nutrition.



Dabbert, Stephan

Professor Stephan Dabbert has served as President of the University of Hohenheim since 2012. The University of Hohenheim is one of the world's leading universities in agricultural sciences and offers a combination of natural, business, economic, social, and communication sciences that is unique in Germany. Professor Dabbert studied Agricultural Sciences at Kiel University and Pennsylvania State University and received a Master of Science in Agricultural Economics at Pennsylvania State University in 1986. He completed his doctorate and post-doctoral lecturing qualification at the University of Hohenheim.

Between 1992 and 1994 he served as Director of the Institute of Socioeconomics at the Leibniz Centre for Agricultural Landscape Research (ZALF) in Müncheberg. In 1994, Dabbert returned to Hohenheim, where he held the position of Professor of Production Theory and Resource Economics in the Agricultural Sector. He was the Dean of the Faculty of Agricultural Sciences from 2000 to 2006.

Professor Dabbert was a Fulbright Scholar, co-editor of agricultural science journals and the journal "Agrarwirtschaft – German Journal of Agricultural Economics", and a member in numerous high-level committees including the Advisory Board "Agricultural Policy" of the Federal Ministry of Nutrition, Agriculture and Consumer Protection (2003-2012) and the Advisory Board for Sustainability in Baden-Württemberg (NBBW) (2008-2012).

His research focuses on economic and policy questions concerning organic farming, the evaluation of environmentally friendly land use practices from the perspective of economics and agricultural policy, resource economics, and agricultural-economic sector modelling in the context of interdisciplinary landscape modelling.



Darmon, Nicole

Nicole Darmon is a nutritionist, epidemiologist and senior researcher at the INRA (French National Research Institute for Agricultural Research) in Montpellier, south of France, within the MOISA Mixt Research Unit dedicated to the multidisciplinary study of sustainable food systems. Through her research, she wants to encourage the food and nutrition security of vulnerable populations in the context of more sustainable diets. She studies the conditions of compatibility between the different dimensions – nutritional, environmental, economic and socio-cultural – of sustainable diets and the multiple constraints influencing food choices, be they related to individual preferences, financial and physical access to healthy food. To translate recommendations (nutritional, toxicological, environmental, ...) into realistic, healthy affordable and more sustainable dietary practices, she develops quantitative nutrition approaches (diet optimization, nutritional profiling of food, ...). She also conducts interventional research, such as the Opticourses program aimed at improving the food supply of disadvantaged populations and the JARDinS project which assesses the impact of access to community gardens on the sustainability of dietary practices.



Daum, Thomas

Thomas Daum is a research fellow at the Institute of Agricultural Science in the Tropics (Hans-Ruthenberg-Institute). His research focuses on agricultural development strategies that are sustainable from an economic, social and environmental perspective. He has worked, for example, on agricultural mechanisation, rural youth as well as gender, time use and nutrition aspects related to technology adoption. A specific focus of his work is on how information and communications technologies (ICTs) can help small-holder farmers to access services and markets and how ICTs can be used by researchers to collect better quality data. He is part of the Program of Accompanying Research for Agricultural Innovation (PARI) of the German Federal Ministry for Economic Cooperation and Development (BMZ), which aims to contribute to sustainable agricultural growth and food and nutrition security in Africa and India. He studied Business Administration (B.A.) in Mannheim and Budapest and holds a M.Sc. in Agricultural Economics from the University of Hohenheim. He has worked at the Institute for Land Use Economics in the Tropics and Subtropics and made an internship at the Department of Land Policy and Land Management at the GIZ. He is working as a freelance journalist for the "Süddeutsche Zeitung" and the "Frankfurter Allgemeine Zeitung".



De Groene, Els

Els de Groene, PhD MBA, is Global Director Nutrition Standards and Advocacy at Unilever. She has more than 30 years' professional experience of which 18 years in Unilever. She has worked for all Unilever' food and beverage categories in different nutrition management roles based in the Netherlands, UK, North America, and Africa. Her current responsibilities include creating the external framework conditions in nutrition and health to support the sustainable business growth of Unilever Foods and Beverages brands, annual reporting progress on Unilever Nutrition targets committed externally in the Unilever Sustainable Living Plan and ensuring that Unilever nutrition positions and standards are aligned to the latest scientific

developments and dietary recommendations. Els is passionate about bringing products on the market that help people to improve their health and wellbeing. Before joining Unilever, Els had a career in academia as assistant professor in Pharmacology and Toxicology at Utrecht University, and contract research at TNO Nutrition & Pharma. She obtained her MSc in Biochemistry from Leiden University, holds a PhD from Utrecht University, and earned an MBA degree from Webster University in Leiden.



Demaio, Alessandro

Dr. Sandro Demaio trained and worked as a medical doctor at The Alfred Hospital in Australia. While practising as a doctor he completed a Master in Public Health including fieldwork in Cambodia. In 2010, he relocated to Denmark where he completed a PhD with the University of Copenhagen, focusing on non-communicable diseases. His doctoral research was based in Mongolia, working with the Ministry of Health. He designed, led and reported a national epidemiological survey, sampling more than 3500 households. Sandro held a Postdoctoral Fellowship at Harvard Medical School from 2013 to 2015, and was assistant professor and course director in global health at the Copenhagen School of Global Health, in Denmark. He also established and led the PLOS blog *Global Health*. From November 2015 until April 2018, Sandro was Medical Officer for non-communicable conditions and nutrition with the Department of Nutrition for Health and Development at the global headquarters of the World Health Organization.

In April 2018, Sandro became Chief Executive Officer of EAT: the science-based, global platform for food systems transformation.

In his pro bono work, Dr. Demaio co-founded *NCDFREE*, a global social movement against non-communicable diseases using social media, short film and leadership events – reaching more than 2.5 million people in its first 18 months. In 2015, he founded *festiva21*, assembling and leading a team of knowledge leaders in staging a massive and unprecedented, free celebration of community, food, culture and future in his hometown Melbourne.

Then in 2018 and funded through his media work with ABC TV and Pan MacMillan publishers, Sandro established an independent, not-for-profit foundation focusing on improving the health and nutrition of Australians.

Dr. Demaio currently co-hosts the ABC television show *Ask the Doctor* – an innovative and exploratory factual medical series broadcasting weekly across Australia.

To date, he has published 30 scientific papers and more than 90 articles. He is also the author of the *Doctor's Diet*, a cookbook based on science and inspired by a love of good food.

Sandro is fascinated by systems-innovation and leadership; impact in a post-democracy; and externality-driven disease.



De Pee, Saskia

Saskia de Pee is Senior Technical Advisor for Nutrition at the United Nations World Food Programme (WFP) where she leads the 'Fill the Nutrient Gap' team and is Adjunct Associate Professor at the Friedman School of Nutrition Science and Policy, Tufts University, Boston and at Human Nutrition, Wageningen University, the Netherlands. She has worked in public health nutrition for more than 20 years, focusing on science as well as practical applications, policies and strategies.

Her areas of expertise include complementary feeding, micronutrients, fortification, food and nutrient security, nutrition in the context of social protection, HIV/AIDS and Tuberculosis. The practical application of nutrition science, at the interface with disciplines such as food technology, anthropology, economics, and in collaboration with stakeholders from government, private sector, donors and academia to achieve sustainable solutions is her passion. Prior to joining WFP in 2007 she worked for Helen Keller International in the Asia Pacific region for 10 years. She has co-authored more than 150 scientific publications and holds a PhD in Nutrition from Wageningen University, the Netherlands.



Deptford, Amy

Amy Deptford is a public health nutritionist and a senior member of the Fill the Nutrient Gap team at the World Food Programme. She is responsible for leading the nutrition situation analyses as well as supporting multiple countries to leverage multi-stakeholder platforms to develop context-specific solutions to improve nutrition across the food, health and social protection systems.

Before joining the World Food Programme, Amy worked with Save the Children as the technical lead for the Cost of the Diet tool and was responsible for strengthening its analytical approach and the accompanying software. She worked across Africa and South Asia conducting Cost of the Diet studies as well as building the capacity of nutrition staff in Government and development agencies.

Amy has a Masters Degree in International Public Health Nutrition from the University of Westminster in the United Kingdom.



Detzel, Patrick

Dr. Patrick Detzel leads the health economic group at the Nestlé Research. His expertise in health economics applied to nutrition is reflected in his numerous publications in peer reviewed journals. He and his team are working on assessing, modeling and evaluating the economic and public health impact of varied nutrition interventions. These include food fortification, food taxation, food reformulation or estimating the long term impact of specific nutrients and their socioeconomic impact on preventing non communicable diseases (micronutrient deficiencies, cardio-vascular health, diabetes, mobility, bone health) and allergies.



Drewnowski, Adam

Prof. Dr. Adam Drewnowski is the Director of the Center for Public Health Nutrition and of the Nutritional Sciences Program at the University of Washington. He obtained his MA degree in biochemistry at Balliol College, Oxford University in the UK, and PhD degree in psychology at The Rockefeller University in New York. His work on nutrient profiling has helped the food industry to align product portfolios with national and international guidelines. The Nutrient Rich Food (NRF) Index, a measure of nutrient density of individual foods and total diets helps to identify foods that are healthy, affordable, sustainable and appealing. Prof. Drewnowski is the author of over 300 research publications. He advises governments, foundations, NGOs, and the private sector on geopolitical strategies related to diets and health.



Eggersdorfer, Manfred

Manfred Eggersdorfer is Professor for Healthy Ageing at the University Medical Center Groningen (UMCG), Visiting Professor at Hokkaido Information University and Stellvertretender Vorsitzender der Gesellschaft für Angewandte Vitaminforschung (GVF). He studied chemistry at the Technical University Munich and did his PhD in organic chemistry in the field of synthesis and characterization of unusual amino acid. He was post-doc at the Stanford-University, California working with Carl Djerassi on the isolation and characterization of sterols from marine origin as potential contraceptives. He joined Roche in 1999 as Head of R+D Vitamins, continued in this responsibility after DSM acquired it. In the last years he built Nutrition Science & Advocacy as a global unit and retired in 2018.

Manfred Eggersdorfer continues to hold the chair for Healthy Ageing at the University Medical Center Groningen (NL) and is engaged in ongoing research programs. His scientific work focuses on the role of essential nutrients for health, vitality, and well-being, especially on the impact of inadequate intake and status of micronutrients over the life cycle with a focus on long term health and healthy ageing.

He is active as member of the Advisory Board of the Johns Hopkins Bloomberg School of Public Health, member of the Nutrition Council of Tufts University Friedman School of Nutrition Science & Policy and Board member of the Gesellschaft für Angewandte Vitaminforschung e.V. He is an Honorary Member of The Oxygen Club of California, and affiliate of various other organizations. He is author of numerous publications, books and book chapters in the fields of vitamins, carotenoids, omega-3-polyunsaturated fatty acids for infants, adults, elderly and risk groups and on innovation in nutritional ingredients. He engages as reviewer for a variety of journals and is Associate Editor of the "International Journal of Vitamin and Nutrition Research".



Eiden, Hanns-Christoph

Dr. Hanns-Christoph Eiden, BLE, has been President of the Federal Office for Agriculture and Food since 2010 and manages a federal agency responsible for control measures in agriculture and fisheries as well as for the implementation of various programs of the Federal Ministry of Food and Agriculture (BMEL). These include all areas of agriculture and nutrition as well as rural areas.

As project manager, BLE looks after a number of research projects in the fields of agriculture and nutrition. This includes the coordination of German agricultural research at the European level and participation in the relevant EU bodies.

It networks the various partners and thus promotes innovation in practice. Since February 2017, the Federal Center for Nutrition (BZfE) and the Federal Information Center for Agriculture (BZL) have also been located in the BLE, which has thus also developed into a communications authority.

Dr. Eiden has been a member of the network Hidden Hunger since its beginning.



Fernández Celemin, Laura

Dr. Laura Fernández Celemin holds a Diploma degree in dietetics & human nutrition and a PhD in Bio-medical Sciences from the Catholic University of Louvain in Belgium.

Laura's role as Director General of the European Food Information Council (EUFIC) includes deciding on the Nutrition and Food Safety strategy for EUFIC and the supervision of EUFIC activities in EU-funded research projects.

Laura has published several manuscripts in peer-reviewed journals, trade magazines and other specialised press. In addition, she has given numerous presentations about EUFIC, EUFIC's consumer research as well as on results from EU-project research to various audiences. EUFIC communicates science-based information on nutrition and health, food safety and quality, to help consumers to be better informed when choosing a well-balanced, safe and healthful diet.



Fongar, Andrea

Andrea Fongar is a Nutritional Scientist with a PhD in Agricultural Economics, obtained from the University of Göttingen, Germany, in 2018. During her doctoral studies, she worked in the multidisciplinary Research Training Group "GlobalFood", jointly coordinating the project Agriculture and Dietary Diversity in Africa (ADDA). The primary focus of her doctoral thesis was to evaluate how different nutritional measures compare and relate to each other. Dr. Fongar has extensive research and working experiences on the African continent. She designed and coordinated projects related to nutrition and agriculture in Kenya, Sierra Leone and Tanzania.



Frank, Jan

Professor Frank graduated with a Diploma in Nutrition from Bonn University (2000), obtained a PhD in Food Science at the Swedish University of Agricultural Sciences (2004), and received postdoctoral training at the Universities of Kiel and Hohenheim. He was a visiting scientist at the Linus Pauling Institute (USA), the University of Reading (UK) and the University of Surrey (UK).

Dr. Frank was appointed Professor of Human Metabolomics at the Institute of Nutritional and Food Sciences at the University of Bonn in 2012 and, in 2013, Full Professor and head of the division Food Biofunctionality at the Institute of Biological Chemistry and Nutrition at the University of Hohenheim. He is president of the Society of Nutrition and Food Science (www.snfs.org), and editor-in-chief of NFS Journal, associate editor of Nutrition, and member of the editorial boards of The Journal of Nutritional Biochemistry, BioFactors, and Plant Foods for Human Nutrition.

His research interests lie in factors that determine the absorption, metabolism, and elimination of phytochemicals and different vitamin E congeners and in particular the long-chain vitamin E metabolites. Dr. Frank and his team examine novel strategies to overcome the low intrinsic oral bioavailability of phytochemicals and investigate their biological activities.

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Gabrysch, Sabine

Sabine Gabrysch is Deputy Head of the Institute of Global Health at Heidelberg University and Head of the Institute's Unit of Epidemiology and Biostatistics, as well as a Honorary Professor at the London

School of Hygiene & Tropical Medicine. She is a board member of the German Society of Epidemiology and the Heidelberg Centre for the Environment. Sabine holds a medical degree from the University of Tübingen and an MSc and PhD in Epidemiology from the London School of Hygiene & Tropical Medicine. She worked as a medical doctor in Sweden and Ethiopia and as a consultant to GIZ. Her area of research is global maternal and child health. Sabine has been a Margarete von Wrangell fellow, working on geographic access to care and quality of care at childbirth in Ghana. Since 2013, she leads a BMBF-funded Junior Scientist Group conducting the six-year research project "Food and Agricultural Approaches to Reducing Malnutrition" (FAARM). The project entails a cluster-randomized trial among 2700 women in 96 villages in rural Sylhet, Bangladesh, evaluating the impact of a Homestead Food Production program on chronic undernutrition in women and young children. For FAARM, Sabine received the 2019 Award for courageous research of the State of Baden-Württemberg.



Gavin-Smith, Breda

Breda Gavin-Smith, SRD, MPH, is a Dietitian and Public Health Professional with experience in both the Public and Private sector in Ireland, UK, South East Asia and West & Southern Africa.

Specializing in issues and initiatives that require multi-stakeholder engagement and participation with a track record of successful project management of programs requiring collaboration across cultures, sectors and multi-levels. Breda graduated as a Dietitian in Ireland in 1999 and started her career as a Health Promotion Dietitian. After 5 years in varying roles within the health service Breda moved to the private sector. As Nutrition Manager with Kerry Group in the UK and Ireland Breda developed the first Nutrition Strategy for the organization and agreed brand specific nutrition targets across all brand categories. Following 3 years Breda moved to South East Asia to work as a Scientific Program Manager with an NGO. While working in South East Asia Breda began her Master's in Public Health and completed her thesis with the United Nations Standing Committee on Nutrition (UNSCN) in Geneva which focused on private sector engagement at the UNSCN. In 2013 Breda joined the Scaling up Nutrition Movement (SUN) based in Geneva working on mechanisms for developing successful partnerships for nutrition. This work included the development of the Reference Note and Toolkit on the *Prevention and Management of Conflict of Interest in the SUN Movement*. Since March 2017 Breda has worked as the Nutrition Public Health Manager with the Sight and Life Foundation (SAL) where she manages some of the foundations key multi-sectoral programs to achieve public health goals on issues such as the double burden of malnutrition and micronutrient deficiency. Breda is also part of the foundations leadership team contributing to both the strategic and operational planning within SAL.



Gurr-Hirsch, Friedlinde

Secretary of State Friedlinde Gurr-Hirsch MdL was born in 1954. Before becoming a Member of the Baden-Württemberg State Parliament in 2001, she taught economic sciences and politics at a vocational business college. In 2004 she was appointed Secretary of State at the Ministry for Rural Affairs, Nutrition and Consumer Protection Baden-Württemberg, an office she holds again since 2016 following a brief period in opposition in which she acted as vice-chair of the Christian Democratic Union Group in BW-Parliament. She is married and mother of three children.



Haddad, Lawrence

Dr. Lawrence Haddad became the Executive Director of the Global Alliance for Improved Nutrition (GAIN) in October 2016. Prior to this Lawrence was the founding co-chair and lead author of the Global Nutrition Report from 2014 to 2016. From 2004-2014 Lawrence was the Director of the Institute of Development Studies (IDS), the world's leading development studies institute. Before joining IDS in 2004, he was Director of the Food Consumption and Nutrition Division at the International Food Policy Research Institute (IFPRI) from 1994 to 2004. From 2009-2010 Lawrence was the UK's representative on the Steering Committee of the High Level Panel of Experts (HLPE) of the UN's Committee on World Food Security (CSF). He was the President of the UK and Ireland's Development Studies Association from 2010 to 2012. An economist, Lawrence completed his PhD in Food Research at Stanford University in 1988. On Monday, 25th June 2018, the World Food Prize Foundation awarded the 2018 World Food Prize to Lawrence Haddad, and David Nabarro, former special adviser to the UN Secretary General. Announcing the award Ambassador Quinn, World Food Prize President cited the recipients for their "extraordinary intellectual and policy leadership in bringing maternal and child nutrition to the forefront of the global food security agenda and thereby significantly reducing childhood stunting".



Hawkes, Corinna

Professor Corinna Hawkes is Director of the Centre for Food Policy, City, University of London. Her work concerns the design and delivery of policies that effectively improve diets locally, nationally and internationally. Before joining the Centre for Food Policy Corinna was Head of Policy and Public Affairs at World Cancer Research Fund International, where she established the NOURISHING Framework of policies for healthy diets. Between 2015-2018 she was Co-Chair of the Independent Expert Group of the *Global Nutrition Report*, co-leading the production of four reports tracking efforts to address malnutrition around the globe. Corinna is a member of the EAT-Lancet Commission on Healthy Diets from Sustainable Food Systems and the Lancet Commission on Obesity and between 2016-18 was the Co-Chair of the World Economic Global Future Council on Food Systems. In 2018 she was appointed by the Mayor of London as Vice-Chair of the London Child Obesity Taskforce. Corinna has also worked for the World Health Organization (Geneva), the International Food Policy Research Institute (Washington DC) and in 2009-2010, held a fellowship at the School of Public Health at the University of Sao Paulo, Brazil.



Jensen, Jørgen Dejgaard

Jørgen Dejgaard Jensen is a professor of economics at the University of Copenhagen. His research interests are within economic aspects in relation to food production, food marketing and food consumption. In a number of research projects, he has investigated the role of economic incentives in the dietary choice of consumers and in the commodity supplies and marketing strategies of food industry firms and retailers. Together with co-authors he has published a number of scientific articles and reports on the effects of food taxes and subsidies on consumption and public health, and he has presented these results on several national and international meetings.



Klemm, Rolf D. W.

Rolf D. W. Klemm, MPH, Dr. PH, is Vice President of Nutrition at Helen Keller International (HKI) and Senior Associate at the Johns Hopkins Bloomberg School of Public Health (JHBSPH). He is trained as a nutritional epidemiologist and has >30 years of experience in international public health with expertise that spans nutrition efficacy and effectiveness research and program design, management and evaluation. Dr. Klemm served as Country Director for HKI in the Philippines, Technical Director of USAID's flagship A2Z micronutrient project, and as nutrition faculty at JHBSPH. He has served as principle/co-investigator for micronutrient and child growth intervention trials in Asia and Africa at JHBSPH. He is the principle instructor of the Food and Nutrition Policy course at JHSPH. Rolf holds an MPH and Dr. PH from the Johns Hopkins Bloomberg School of Public Health and has published >45 articles in peer-reviewed scientific journals.



Kolmans, Alicia

Alicia Kolmans is Managing Director of the Hohenheim Research Center for Global Food Security and Ecosystems (GFE), which is a thematic platform for interdisciplinary cooperation and collaborative research at the University of Hohenheim. Alicia has extensive experience in the areas of sustainable development and development aid as well as in facilitating inter- and transdisciplinary work in topics related to sustainable agriculture, food systems and food governance. She currently leads multi-actor and knowledge exchange activities in various international collaborative research projects, including the EU-H2020 project 'Transition paths to sUustainable legume based systems in Europe' (TRUE). Prior to her job at the University of Hohenheim, Alicia was Policy and Advocacy Officer on World Food Issues at MISEREOR, the German Catholic Organization for Development Cooperation (2002-2015). She holds a M.A. degree in Economic Geography, Political Science and International Cooperation from RWTH Aachen University.



Kraemer, Klaus

Klaus Kraemer is Managing Director of *Sight and Life*, a Swiss-based humanitarian nutrition think tank with core funding from DSM. *Sight and Life* develops and implements sustainable nutrition solutions, grounded in solid scientific evidence, to improve the lives of those most in need. Dr. Kraemer provides its leadership, vision, and direction, guides its global team, interacts with funders and partners, is its key spokesperson, and is the editor of *Sight and Life Magazine*.

Since 2013, Dr. Kraemer has served as Adjunct Associate Professor in the Department of International Health of Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, USA.

Before joining *Sight and Life* in 2005, Dr. Kraemer was Global Scientific Affairs Manager Human Nutrition at BASF, Germany from 2000 to 2005. He joined BASF originally as R&D Scientist Nutrition in 1995. Previously, he worked for Biosyn Pharmaceuticals, Germany as Science Manager (1993 to 1995). He began his career in 1991 as a Postdoctoral Research Assistant at Justus Liebig University, Germany, having been awarded a PhD in Nutritional Science, graduating *summa cum laude* in 1991, and having achieved a Diploma in Nutritional Science in 1986.

Dr. Kraemer's areas of interest and expertise cover a wide range of topics relating to nutrition and food systems; the biological function and safety of vitamins, minerals, and carotenoids; and the mitigation of micronutrient deficiencies.

He serves on boards and advisory panels dedicated to nutrition, micronutrients and implementation science, reviews scientific journals, and has published over 130 scientific articles, monographs, reviews, and book chapters, co-edited 12 books, and coordinated four special supplements.

Dr. Kraemer presents on the topics of nutrition, development, food systems and micronutrients at forums worldwide, and is a frequent panel member in discussions addressing nutrition and food security issues. He is a member of several professional societies, and the recipient of distinguished international honors. Contact: klaus.kraemer@sighandlife.org



Krawinkel, Michael B.

Michael B. Krawinkel is Professor emeritus, Human Nutrition with focus on developing countries and paediatrics at the Justus-Liebig-University Giessen, Institute of Nutritional Sciences, Germany.

After undergraduate education in human medicine and doctoral degree (1977) Michael Krawinkel worked in pediatric university hospitals at Bonn and Kiel, Germany. In 1981-83 he was medical officer in the Primary Health Care Program of the Southern Region of the Republic of Sudan. In 1991 he graduated as postdoctoral lecturer for pediatrics at Kiel university and in 1998 he got appointed on a chair for 'Human nutrition with focus on nutrition in developing countries'. In 2016 he retired age-related. Besides lecturing in Giessen he also lectures at the University of Vienna, Austria, and at the Hebrew University of Jerusalem, Israel. The research focus is on nutrition-related non-communicable diseases, improving complementary feeding, and provision of micronutrients through diverse diets. In pediatrics, care for children with chronic gut failure, was the main focus. Research was and is mostly funded by the German Federal Ministry of Nutrition and Agriculture, and the German Federal Ministry for Economic Cooperation and Development. Krawinkel has been an advisor for the German Federal Ministry for Economic Cooperation and Development, WHO, FAO, DAAD, gtz, kfw, and the German Agro Action. As executive director he represented the International Society of Tropical Pediatrics in the Standing Committee of the International Pediatric Association (2007-2013) and led the German Association for Tropical Pediatrics (1999-2012). Contact: michael.krawinkel@uni-giessen.de



Lewis, Dale

With over 30 years of experience in Zambia combining fields of natural resource management, rural community development, applied agriculture, food processing and business, Dale Lewis has pioneered market-based solutions to conservation and rural livelihoods through a company he founded called Community Markets for Conservation or COMACO. He continues to use this experience to advance understanding of the environmental and social challenges confronting conservation and rural poverty in Africa. The value-added food products manufactured and sold by COMACO are all derived from the small-scale farmers that his company has helped to train in sustainable agriculture and to become food secure through incentivizes his company sustains. He is most proud of COMACO's impact on the environment, contributing to more wildlife, safer forests and healthier soils across Zambia's Luangwa Valley.



McDermott, John

John McDermott is Director of the CGIAR Research Program on Agriculture for Nutrition and Health (A4NH) of the International Food Policy Research Institute (IFPRI). He joined IFPRI in late 2011 to lead the program led by IFPRI. Previously he was deputy director general and director of research at the International Livestock Research Institute (ILRI). McDermott has lived and worked in Africa for 25 years. As a researcher, McDermott's research career has focused on public health, animal health and livestock research in developing countries, primarily Africa. He has led projects on zoonotic and emerging diseases in Asia and Africa. McDermott has a strong background in quantitative methods (modeling, study design, statistics). He has authored or co-authored 200 peer-reviewed publications, book chapters and conference papers, advised over 30 post-graduate students, including 20 PhD graduates and served as an advisor to FAO, WHO, OIE, and other international agencies.



Meenakshi, Jonnalagadda V.

J.V. Meenakshi is Professor at the Delhi School of Economics, University of Delhi, India, where she teaches courses in econometrics and food and agricultural policy. From 2004-2008 she worked at IFPRI, where she headed the impact and policy research on biofortification. Her research areas include: the economics of health, nutrition and food, focusing in particular on the interface between agriculture and nutrition; characterizing cereal and water markets; and evaluation of agricultural and nutrition interventions. The primary geographical focus of her research is India but she has also worked on several countries in sub-Saharan Africa. Her research is informed by active collaborations with nutritionists, medical professionals, and policy makers, and uses a mix of field-based research and nationally-representative data sets. She serves as an associate editor of *Agricultural Economics* and the *Indian Economic Review*. She is a member of the National Statistical Commission, Government of India, and of the Standing Panel on Impact Assessment, International Science and Partnership Council of the CGIAR. Meenakshi obtained her Master's and PhD degrees from Cornell University in Agricultural Economics.



Megerle, Heidi E.

Prof. Dr. Heidi Elisabeth Megerle works as a Professor for Applied Geography and Spatial Planning at the University of Applied Forest Sciences in Rottenburg am Neckar (Germany). As program director she established the two bachelor programs "Water Resources Management" and "Sustainable Regional Development".

At the universities of Tübingen (Germany) and Aix-en-Provence (France) she completed successfully the diploma degree (Geography, geology and botany). After a long-term professional career in international nature protection as well as environmental and tourism planning, Mrs. Megerle joined the Geography department of Tübingen University. Her PhD addressed sustainable tourism, her habilitation the evaluation of a spatial planning concept.

Already during her professional career outside of university she focused on rural regional development and landscape-related tourism. Since 2011 she is responsible for the regional conferences on rural development of the Ministry for Rural Areas of Baden-Württemberg. Mrs. Megerle was appointed as member of the Academy for Spatial Research and Planning's state working group Baden-Württemberg as well as of the UNESCO Global Geopark Schwäbische Alb's Scientific Advisory Board.

Her numerous international research and cooperation projects are also focusing on sustainable regional development of rural areas. Since 2011 Prof. Megerle heads the cooperation project with the University of Bujumbura in Burundi; since 2015 she is working on rural development with the College of Agriculture and Natural Resources in Karaj (Iran). 2017 Prof. Megerle spent a research semester at the Université Savoie Mont Blanc in Chambéry (France) concentrating on development of tourism and settlements in the French Alps. She authored more than hundred scientific publications.



Merritt, Rowena

Dr. Rowena Merritt has extensive experience of developing, leading and evaluating social marketing and behaviour change programs both in the UK and internationally. After completion of her D.Phil (PhD) from the University of Oxford in 2006, she was part of the original team that set up the National Social Marketing Centre in London. Under her position at the Centre, she managed England's first multi-trial applications of social marketing, involving ten sites across England, each focused on a different topic or audience. Rowena then moved to the Department of Health England and developed their national Social behaviour Change Strategy: *Ambitions for Health*.

Since leaving the Department of Health in 2010, Rowena has been the Head of Research and Evaluation at the National Social Marketing Centre and has worked on a mass of projects for development agencies, including USAID, DFID and SNV, international NGOs and organisations, including a number of UN agencies (UNICEF, WHO, PAHO and WFP). Some of the work includes the development of a new marketing code for breast milk substitutes for the Department of Health in Hong Kong; developed a new six month training programme for environmental NGO's in the Kingdom of Jordan, funded by USAID; developed a national campaign for WHO Ukraine; and developed a SBCC strategy for WFP in Ethiopia.



Misago, Aloys

Dr. Aloys Misago has a PHD in social Anthropology and Economic Ethics from the Universities of Münster, Cologne and Bonn/Germany. Dr. Misago has worked as Lecturer for "Intercultural Communication and Cooperation" at the Institute for International Cooperation/Bad Honnef and from 1993-1998 as Professor Visiting (Gastwissenschaftler) at the Institute of African Studies/University of Cologne. Since 2012 he is working as Lecturer at the University of Burundi and Dean of the Business Institute at the University of Burundi.

His research works are related to sustainable development and in January 2018 he has elaborated a strategy for hunger and poverty alleviation in Burundi. In September 2018 he has presented a paper research on poverty profile in Burundi.



Mogge, Mathias

Mathias Mogge is Welthungerhilfe's Secretary General since September 2018. The agricultural engineer and environmental scientist has been working for Welthungerhilfe for a total of more than 20 years. Prior to his position as Secretary General he served as Executive Director Programmes between March 2010 and August 2018 as well as Acting Director of the Programmes and Projects Department.

He has held various positions within Welthungerhilfe's Programmes and Projects Department. Between 1998 and 2001 he worked on the Regional Desk East Africa and was in charge of the programmes in Ethiopia, Uganda and Sudan. From 2001 to 2005 he served as Regional Director for West Africa in Bamako/Mali and was responsible for the Regional Programme there. From 2005 to 2009 he headed the Knowledge-Innovation-Consultancy Unit in the Programmes Department in Bonn that deals with conceptual issues of overseas programmes and with the internal knowledge management process. Before joining Welthungerhilfe he worked as a development worker with the German Development Service in Sudan and completed a master's degree in Norwich, Great Britain.

In an honorary capacity he acts as member of the executive committee of VENRO (Verband Entwicklungspolitik und Humanitäre Hilfe deutscher Nichtregierungsorganisationen e. V./umbrella organisation of development non-governmental organisations (NGOs) in Germany), also as member of the expert team of the Advisory Service on Agricultural Research for Development of the GIZ (BEAF). Furthermore, he is member of the Advisory Board of the International Congress Hidden Hunger organized by the University of Hohenheim.



Newnham, Paul

Paul Newnham currently heads up the SDG 2 Advocacy Hub, an initiative bringing together NGOs, advocacy groups, civil society, the private sector and UN agencies to coordinate global campaigning and advocacy to achieve Sustainable Development Goal (SDG) 2. To this end, the Hub has worked with a community of 150+ chefs from 38 countries to create a Chefs' Manifesto – a framework outlining how chefs can contribute to the SDGs.

Paul has over 20 years' experience in National and Global roles with a focus on Campaigning, Youth Mobilisation, Advocacy, Marketing and Communication. As a dynamic and strategic innovator, Paul brings teams together to achieve planned objectives. Through inspirational and evocative leadership, Paul is able to enthuse and motivate others, achieving goals beyond expectation.



Niragira, Sanctus

Sanctus Niragira holds a PhD in Agricultural Economics from Ghent University, Belgium (2016) and a Master's degree in Nutrition and Rural Economics and Management (2011) from the same University (Ugent). He is currently working at the University of Burundi as Head of Department of Rural Development at the Faculty of Agronomy and Bio-engineering. His area of research includes Agricultural practices, Human Nutrition, Food Security and Rural Development. Since 2007, Sanctus Niragira has been very active in coordinating the collection and analysis of data on rural development, food security and natural resources management. Sanctus Niragira speaks fluently English and French, and moderately Swahili and Dutch (Netherlands). His computer skills include: Microsoft (word, excel, powerpoints, ...), SPSS, GAMS, R,S-Plus ...

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Nkurunziza, Pascal

Pascal Nkurunziza is Associate Professor and Teacher in the Department of Earth Sciences of the Faculty of Sciences at the University of Burundi. He has also held political positions in the past, such as Minister of Public Works and Equipment, Minister for the Reintegration and Resettlement of Displaced Persons and Returnees (1996-2001), but has also held legislative functions such as Senator in the Senate of Transition (2001-2005).

Professor Pascal Nkurunziza has made several publications and research related to the Earth Sciences, notably in the field of alteration, transport and sedimentation processes, geohazards but also in the sector of Integrated Water Resources Management.

He is an academic resource for other Universities such as the Official University of Bukavu and the University of Ngozi where he teaches for several years the courses of Exogenous Petrology, Geology and Mineralogy of Clays and Superficial Geology.

For some time, he is a Visiting Professor at the German Universities of Tuebingen and Rottenburg.



Nohr, Donatus

Donatus Nohr is a scientist at the Institute of Biological Science and Nutrition at the University of Hohenheim since 2001. He works on the influence of high doses of vitamin C on various cancer cell lines. Since 2013 he is PI inside the BMBF-funded, multicentral project BiomassWeb. Partners from Hohenheim, Bonn, Ghana, Nigeria and Ethiopia investigate opportunities to install networks for the improvement of overall usage of biomass. His work package analyses the (micro-)nutritional status of people in several regions of Ghana as well as the micronutrient content of local (processed) food samples to develop a country specific version of CIMI, a PC-based program to easily detect micronutrient deficiencies. A special focus lies in the optimal detection of carotenoids in several staple foods, to finally give people recommendations to improve their micronutrient status with alternative local food.

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Onyango, Anna

Mrs. Anna Onyango is the Agriculture Secretary at the Ministry of Agriculture, Livestock, Fisheries and Irrigation of Kenya and a committed development practitioner.

Before she found her calling in the Ministry, she gathered extensive practical experiences as a Senior Agricultural Officer and Extension Coordinator. As Director in the Agribusiness Department she later promoted agriculture commodity value chains through agro-processing, competitive production, post-production handling and the development of marketing groups among producers.

When she was promoted to Director of Agriculture she oversaw the Policy and External Relations Directorate. In this position she spearheaded the delivery of several policies, such as the National Food Security and Nutrition Policy and the National Agriculture Sector Extension Policy.

In 2013 she was appointed Acting Agriculture Secretary in the State Department of Agriculture before proceeding to Agriculture Secretary in the State Department for Crops Development in 2017. One of her recent greatest achievements was to convene the Task Force that was assigned to draft the new national Agriculture Sector Strategy for Growth and Transformation.

She has excelled coordination with other stakeholders in collaborative activities for agricultural development throughout her professional career. She closely collaborates with the research sector, e.g. as member of KALRO Board of Management since 2015. She chairs various project steering committees i.e. technical Advisory Committees, as well as large-scale donor projects such as the Kenya Climate Smart Agriculture Programme (World Bank), Agriculture Sector Development Support Programme (SIDA), or ENABLE – Youth Kenya/AFDB.

Mrs. Onyango holds a M.Sc. in Agricultural Extension and Rural Development from the University of Reading and a B.Sc. General Agriculture from the University of Nairobi.

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Prabhu, Pingali

Prabhu Pingali is a Professor in the Charles H. Dyson School of Applied Economics and Management at Cornell University, with a joint appointment in the Division of Nutritional Sciences, and the Founding Director of the Tata-Cornell Institute for Agriculture and Nutrition (TCI). Prior to joining Cornell, he was the Deputy Director, Agricultural Development Division of the Bill & Melinda Gates Foundation, from 2008-May 2013. He was director of the UN Food and Agriculture Organization's Agriculture and Development Economics Division from 2002-2007. In addition, he worked with the CGIAR for 15 years from 1987-2002, first with IRRI in the Philippines and then with CIMMYT in Mexico. Pingali is a member in the U.S. National Academy of Sciences and an AAEA Fellow. He has over three decades of experience working with some of the leading international agricultural development organizations as a research economist, development practitioner and senior manager. Pingali has written 12 books and over 100 referred journal articles and book chapters on food policy.



Puchan, Grit

Permanent Secretary Grit Puchan was born in 1960. Following her graduation in law at Würzburg University and her articles, she joined the Baden-Württemberg State Administration in 1990 where she held offices at various administrative levels. After six years of service as Vice-Commissioner in the Tuebingen Regional Council, in 2015 she became head of division at the Baden-Württemberg State Parliament Administration and in 2016 was appointed Permanent Secretary of the Ministry of Rural Affairs and Consumer Protection Baden-Württemberg. She is married and has a daughter.



Qaim, Matin

Matin Qaim is Professor of International Food Economics and Rural Development at the University of Göttingen, Germany. Before, he had research and teaching positions at the Universities of Hohenheim, Bonn, Kiel, and California at Berkeley. He holds a doctoral degree in agricultural economics from the University of Bonn. His main research areas relate to the economics of food security, malnutrition, and sustainable food systems. He has research experience in numerous countries of Africa, Asia, and Latin America. Qaim has published widely in disciplinary and interdisciplinary journals and has received several academic prizes. He serves on different scientific and policy advisory committees, including for the Global Panel on Agriculture and Food Systems for Nutrition. Qaim is member of the German National Academy of Sciences Leopoldina.



Riedel, Simon

Simon Riedel is a Post-Doc at the Institute of Biological Chemistry and Nutrition, University of Hohenheim, where he is developing CIMI, an android app for a quick and precise evaluation of a person's micronutrient supply. He is CEO of img.Ai, a startup providing an AI based analysis service for microscopical images, 1st price winner of Google backed startup contest StartUp Weekend München and member of Süd-Niedersachsen Innovation Campus (SNIC). Previously, he freelanced as a software developer for approximately six years, supporting researchers from various domains in creating meaningful software tools. Simon was a research fellow at University of Kassel (Animal Husbandry in the Tropics) and International Livestock Research Institute (ILRI), holds a PhD in Agriculture and spent about five years working in rural regions of Tanzania, Ethiopia and southern China.



Sarkar, Archana

Archana Sarkar is Advisor in Research, Monitoring & Evaluation (M&E) for the India country package in the Food and Nutrition Security, Enhanced Resilience (FaNS) project in GIZ. FaNS is a global flagship programme under the German Government's Special Initiative ONE WORLD – NO HUNGER (SEWOH) which addresses hunger and malnutrition, an issue that is of uppermost significance in the Post-2015 Development Agenda in the context of Germany's G7 presidency. She has expertise in public health nutrition and anthropology. She is responsible for M&E, Knowledge Management & Communications in the FaNS project. Along with nutrition, she is involved in the improvement of subsidised food distribution through Fair Price Shops under India's Targeted Public Distribution System. She was also responsible to develop a digital monitoring platform which improves the collection of nutritional data by health or nutrition ground-level workers. It is currently implemented in India and Tajikistan.

She also has research experience in micronutrient supplementation and fortification programmes for improving children's nutritional status especially iron and zinc. Prior to joining GIZ, she worked as a Senior Scientist at Johns Hopkins School of Public Health for their nutrition projects in India, Bangladesh and Tanzania. Within this tenure, she worked in projects funded by GAIN, Harvest Plus, USAID in the area of micronutrient deficiencies and supplementation, fortification strategies, mortality trials, nutrition and complementary feeding, and iron supplementation among children and adolescent girls. She also worked with MAMTA as Research & M&E Head.

She has published in leading journals like PLoS One, BMC Public Health, American Journal of Clinical Nutrition, Reproductive Health etc. and presented in international conferences. She won competitive bids like Innovation Fund in GIZ, Grand Challenge India Award by BIRAC-BMGF, Xcelerator programme by USAID, Young Scientist Award etc..



Schmitz, Stefan

Stefan Schmitz is Deputy Director-General and Commissioner for the "One World - No Hunger" Initiative at the German Federal Ministry for Economic Cooperation and Development (BMZ) in Bonn.

For the last eight years he has been leading the rural development, agriculture and food security work at BMZ. From 2007 until 2009 he worked as senior advisor to the Secretariat of the Organisation for Economic Cooperation and Development (OECD) in Paris, leading the work on Managing for Development Results. Before that he coordinated the German bilateral cooperation programme with South Africa and Namibia and was deputy head of the infrastructure division at the BMZ.

Before joining the BMZ in 2001, Stefan Schmitz held different posts in the German federal administration in the fields of statistical information systems, regional planning and international cooperation on urban issues. Over the years he held numerous lectureships at different German universities. He received scholarships of the McCloy Fellowship of the American Council on Germany and of the German Academic Exchange Service. In 1985 he graduated from Bonn University in geography and mathematics and received a PhD in geosciences from the Free University of Berlin in 2000.

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Schneeman, Barbara

Prof. Barbara Schneeman is Emeritus Professor of Nutrition at University of California, Davis. From 2004-13 she served as the Director of the Office of Nutrition, Labeling, and Dietary Supplements at the Food and Drug Administration. In that position, she oversaw the development of policy and regulations for dietary supplements, labeling, food standards, infant formula, and medical foods and served as U.S. delegate to two Codex committees (Food Labeling and Nutrition and Foods for Special Dietary Uses). Prior to 2004 she was a faculty member at UCD in the Food Science and Nutrition departments; she also served in several administrative roles, including Dean of the College of Agricultural and Environmental Sciences and Chair of the Department of Nutrition. Her education and training includes a B.S. degree in Food Science (UC Davis), Ph.D. in Nutrition (UC Berkeley), and NIH postdoctoral fellowship. Professional activities include Higher Education Coordinator for USAID, Dietary Guidelines Advisory Committees, the ILSI Board as a public trustee, as well as committees for National Academy of Sciences, USDA, Food and Agricultural Organization, and World Health Organization. Professional honors include awards from the Institute of Food Technology, Fellow of the American Society of Nutrition and of the American Association for the Advancement of Science. She is recognized for her work on dietary fiber, gastro-intestinal function, development and use of food-based dietary guidelines, and policy development in food and nutrition.



Solomons, Noel W.

Noel W. Solomons, MD, is the co-Founder and Scientific Director of the Center for Studies of Sensory Impairment, Aging and Metabolism (CeSSIAM) in Guatemala. He was born and raised in Cambridge, Massachusetts, USA and educated in Cambridge (Harvard College), Boston (Harvard Medical School), Philadelphia and Chicago (clinical and research training) and Guatemala (Institute of Nutrition of Central America and Panama for post-specialty training). He has resided partially or completely in Guatemala for over 40 years. He has had official, adjunct or visiting faculty appointments at the University of Chicago, Massachusetts Institute of Technology, Boston University School of Public Health, the Friedman School of Nutrition Science and Policy, Tufts University School of Medicine, Federal University of Rio de Janeiro, University of Indonesia, and *La Molina* Agricultural University in Peru.

Among over 700 lifetime publications, he has addressed all four fat-soluble vitamins and essential omega fatty acids, six B-complex vitamins and 12 minerals and trace elements, variously, in the context of dietary intake, absorption and metabolism, and human milk content. Current research interests include growth and body composition, breast milk and lactation biology, and dietary nutrient density, along with oral iron safety and nutritional aspects of the microbiome.

Dr. Solomons serves on a number of scientific journal editorial boards, along with his labor as the Editor-in-Chief of the *Food and Nutrition Bulletin* since 2017. Among his honors are the International Nutrition Prize of the International Union of Nutritional Sciences and the Medal of Science and Technology of the Congress of Guatemala. He is on the board of directors of the Hildegard Grunow Foundation in Munich, *ex officio* director of the Nevin Scrimshaw International Nutrition Foundation in Boston, and a member of the *Junta Directiva* of the Guatemalan Academy of Medical, Physical and Natural Sciences.



Terki, Fatiha

Fatiha Terki is the deputy director, head of partnership including SUN Business Network, managing adolescent program in the nutrition division in the World Food Programme (WFP). Prior to her current position, she began her career with WFP in 2011 as a senior policy officer based in Geneva, representing WFP with the UNAIDS and other partners dealing with HIV and nutrition, and supporting WFP regional bureaux and country offices on HIV and nutrition programs.

Dr. Terki is a Medical doctor with a PHD in epidemiology and she brought over 20 years of experience in the field of sexual and reproductive health, HIV and nutrition with expertise in program implementation, planning and evaluation, advocacy, policy development, partnership and resource mobilisation. She has particular interest and experience in supporting nutrition policies and programs, worked extensively in capacitating national governments and NGO organisations.

She worked for the World Health Organization as a senior partnership officer in the HIV department and dealt with partnerships.

She has experience working with a multibillion financing organisation namely the Global Fund to fight AIDS, tuberculosis and malaria managing important funding for projects in several countries. She also worked with international NGO, the International Planned Parenthood Federation, both at regional and HQ level, and is the co-author of a publication on medical and service delivery guidelines for sexual and reproductive health, translated and disseminated in seven languages (Medical and Service Delivery Guidelines: see http://www.ippf.org/sites/default/files/ippf_medical_and_service_delivery_guidelines_english.pdf).

Dr. Terki worked at national level in her home country as the national coordinator of immunisation and family planning program.



Tokcan Hacaloğlu, Selen

Selen Tokcan Hacaloğlu studied in İstanbul Bilgi University Communication Faculty, Cinema-TV department. Her career in communications began in 2001 with journalism. She worked in various news channels both in print media and TV. She worked as a senior correspondent in news rooms and specialized mainly in human rights, minority issues and NGO's. She developed a very reputable network in media since she spent ten years working in major media channels, started at the Turkey's most esteemed and reputable newspaper, which is described as "the school of journalism" named Cumhuriyet Daily and continued with TV. She experienced PR in Excel Communications Consultancy. PR contributed her another perspective in communications which helped her to develop her assets in marketing communications. She worked on several projects, launch campaigns, consumer researches while executing the media relations for both Unilever and PG for different accounts that didn't conflict.

In 2013 she started to work in the Corporate Communications team at Yıldız Holding. She was responsible to plan and execute the annual communication plans for various brands, such as Godiva, UNO and the Sabri Ülker Foundation. She has been working as the Sabri Ülker Food Research Foundation's Communications and Sustainability Director since 2016. She is also responsible for the global sustainability communications of Yıldız Holding.



Vasconcelos, Marta W.

Marta Wilton Vasconcelos has been devoted to the field of Life Sciences, with an emphasis on Plant Nutrition for the past 18 years. Her passion has been to understand how to grow better and more food in a world of less available resources and a growing population. She conducted her PhD on biofortification at the International Rice Research Institute (IRRI), in the Philippines, where she developed a biofortified rice utilizing biotechnology tools, and targeting rice varieties grown in Mozambique. She worked for five years at the Children's Nutrition Research Center, at Baylor College of Medicine (USA) as Research Associate working on legume and cereal nutrition. She is member of the director board of CBQF, a Research Center of Catholic University of Portugal and group leader, working towards understanding how we can continue to grow nutritious food in the context of climate change. Besides teaching and research, she is actively engaged in communication, policy advising, cross border collaboration engagement and acting as project evaluator for different funding agencies. She is deputy coordinator of the H2020 project TRUE (Transition Pathways for Sustainable Legume Based Systems in Europe, 2017-2021), a project that puts legumes at the forefront of food policy debates concerning global food security and sustainable food production systems. She is Chief Editor of Frontiers in Plant Nutrition, and is one of the young members of the Lisbon Academy of Sciences.



Vollmer, Sebastian

Sebastian Vollmer is Professor of Development Economics and Director of the Centre for Modern Indian Studies at the University of Göttingen. His research examines the linkages between poverty and health in low- and middle-income countries, particularly the effect of malnutrition on child development. Sebastian Vollmer studied Mathematics and Economics at the University of Göttingen and also received his PhD in Economics from the University of Göttingen. He was Postdoctoral Research Fellow at Harvard University, Visiting Assistant Professor of Economics at Dartmouth College, Assistant Professor of Development Economics at the University of Göttingen and Adjunct Professor of Global Health at the Harvard T.H. Chan School of Public Health. He has served as a consultant for the World Bank, UNICEF, UNDP, UNAIDS, UNESCO, FAO, the Asian Development Bank and national government organizations.



von Braun, Joachim

Prof. Joachim von Braun is Director of the Center for Development Research (ZEF), Bonn University, and Professor for economic and technological change. His research is on economic development, science and technology policy, poverty reduction, food and nutrition security, resource economics and trade. He is chair of the Bioeconomy Council of the Federal German Government; President of the Pontifical Academy of Sciences of the Vatican; von Braun is member of German National Academy of Science Leopoldina, Academy of Science and Engineering (acatech); and fellow of African Academy of Science and of American Association for the Advancement of Sciences. He is member of the Board of Alliance for a Green Revolution in Africa (AGRA), Vice Chair of the Board of Global Alliance for Improved Nutrition (GAIN), Vice President of Welthungerhilfe.



Weber, Andreas

Dr. Andreas Weber studied sociology, political science and philosophy of science at the University of Mannheim (Dr. phil. 1988). In 1989 he became research assistant in sociology at the University of Hohenheim. Between 1989 and 1999 he held different positions at the University of Mannheim: Dr. Andreas Weber was managing assistant at the *Mannheim Centre for European Social Research* (MZES) and responsible for the university's strategic planning. In 1999/2000 he joined the Leadership Academy Baden-Württemberg. Since 2001, he is head of the Education Department at the Baden-Württemberg Stiftung. In this position, Dr. Weber is in charge of various innovative projects including the Baden-Württemberg-STIPENDIUM, early language acquisition, empirical education research, participation and sustainable development.

Wells, Jonathan

Jonathan Wells, Professor of Anthropology and Pediatric Nutrition at University College London, is a social and biological anthropologist who has worked for the last 25 years in the field of pediatric nutrition. Much of his work addresses the developmental origins of adult disease, with a particular focus on the role played by body composition. He contributes to collaborative research in a range of low- and middle-income countries, currently including Brazil, Peru, Mexico, Malawi, Ethiopia, India, Nepal and China. Some of these studies involve clinical trials aimed to improve children's growth and nutritional status. He has extensive methodological expertise, and uses stable isotope methods widely to assess body composition and breast-milk intake. He has also developed and applied an evolutionary perspective, which may ultimately lead to more realistic expectations about how interventions can improve health, and also helps understand age, sex and ethnic variability in metabolic traits. Recently, he has emphasized the need to understand and address associations of all forms of malnutrition with social inequality and disempowerment. He is the author or co-author of over 350 scientific articles, and has published two books with Cambridge University Press: 'The evolutionary biology of human body fatness: thrift and control' (2010) and 'The metabolic ghetto: an evolutionary perspective on nutrition, power relations and chronic disease' (2016).



West, Keith P.

Keith P. West, Jr., Dr.P.H., R.D. is the George G. Graham Professor of Infant and Child Nutrition and Director of the Program and Center for Human Nutrition within the Department of International Health at The Johns Hopkins Bloomberg School of Public Health in Baltimore, Maryland. Early in his career, he worked as a Registered Dietitian in the US Army on Okinawa, Japan and in Preventive Medicine of the Office of the Army Surgeon General. He earned his Master's and Doctoral Degrees in Public Health at the Johns Hopkins University. Dr. West has worked extensively in South Asia and Sub-Saharan Africa for 40 years, conducting field trials and epidemiological studies to prevent vitamin A and other micronutrient deficiencies and their health consequences among infants, children and women in Southern Asia and Africa. Professor West has authored over 240 scientific publications and was the 2007 recipient of the American Society of Nutrition's International Nutrition Prize.



Wiggins, Steve

Steve Wiggins is an agricultural economist with over 40 years' experience of agricultural and rural development, primarily in Africa and Latin America. Formerly at the University of Reading, since 2002 he has been a research fellow at the Overseas Development Institute, London. His interests centre on rural livelihoods, agricultural development, poverty, and food and nutrition security. Recent and current research includes the commercialisation of smallholders and their relations to markets, obesity in the developing world, rural labour in Asia, and rural demography. He is lead editor of Development Policy Review and a former President of the (UK) Agricultural Economics Society.



Yambi, Olivia

Olivia Yambi is a senior nutrition expert and co-chair of the International Panel of Experts on Sustainable Food Systems (IPES-Food). She has retired from the UN following two decades of work with the United Nations Children's Fund in different capacities around the world. She served as UNICEF Representative in Kenya 2007-2012 and prior to that as UNICEF Representative in the Lao People's Democratic Republic (2003-2007). She was Regional Nutrition Advisor to the UNICEF Eastern and Southern Africa Region 1997-2003 and the Chief of Child Development and Nutrition in the UNICEF India Country Office 1992-1997. In the various capacities she has been responsible for overall strategic guidance to the UNICEF teams, programme conceptualization, leveraging resources for children, and monitoring programme results towards the realisation of child rights. Ms. Yambi a national of Tanzania, holds a PhD in International Nutrition with minors in Epidemiology and Agricultural Economics. Prior to joining UNICEF, she worked as Director of Planning with the Tanzania Food and Nutrition Centre. She has undertaken numerous consultancies in the field of international nutrition. She focuses attention on sustainable food systems as a one of the factors alongside health and adequate care, for the attainment of nutrition security. Ms. Yambi is a member of the World Public Health Nutrition Association.



Zeller, Manfred

Prof. Dr. Manfred Zeller is a professor for Rural Development Theory and Policy at the Faculty of Agricultural Sciences at the University of Hohenheim, Germany. From 2014 to 2016 he worked as a senior research fellow for the International Food Policy Research Institute (IFPRI) where he lead the policy research unit at HarvestPlus. Manfred Zeller served as the director of the Food Security Center from 2009 to 2014. From 1999 until 2005, he worked as a professor at the Institute of Rural Development at the University of Göttingen, Germany. His academic work emphasizes applied research on the impact of food, agriculture, and rural development policies on income, poverty status, and food security. As a research fellow at the Food Consumption and Nutrition Division of IFPRI and leader of its multi-country program on rural financial policies and food security from 1993 to 1999, Prof. Zeller managed a research team and advised on national and regional policies, particularly for Ministries of Agriculture, as well as other institutions in developing countries and regions. Professor Zeller has studied agricultural sciences at the University of Bonn, and received a doctoral title in agricultural economics in 1990. Contact: manfred.zeller@uni-hohenheim.de



Source: Willy Bruechle

LIST OF MAIN SPEAKERS, PANELISTS AND CHAIRS (WITHOUT ACADEMIC TITLES)

Aiking, Harry

Vrije Universiteit (VU),
The Netherlands

Amanquah, Daniel

Sight and Life Foundation,
Switzerland

Anderson, Jock R.

Georgetown University,
USA
and University of New England,
Australia

Atif Bir, Ali

Bahçeşehir University and publishing company
"The Kitap Yayınları",
Turkey

Berry, Elliot M.

Braun School of Public Health, Hebrew University
Hadassah Medical School,
Israel

Bhutta, Zulfiqar A.

Hospital for Sick Children and SickKids Centre
for Global Child Health,
Canada
and Centre of Excellence in Women and Child
Health, Aga Khan University,
Pakistan

Biesalski, Hans K.

University of Hohenheim,
Germany

Birner, Regina

University of Hohenheim,
Germany

Birringer, Marc

Gesellschaft für Angewandte Vitamin-
forschung e. V. (GVF),
Germany

Bouis, Howarth

HarvestPlus / International Food Policy Research
Institute (IFPRI),
USA

Boysen-Urban, Kirsten

University of Hohenheim,
Germany

Branca, Francesco

World Health Organization (WHO),
Switzerland

Callens, Karel

Food and Agriculture Organization of the United
Nations (FAO),
Italy

Chagunda, Mizeck

University of Hohenheim,
Germany

Cogill, Bruce

Australia

Coppens, Patrick

Food Supplements Europe,
Belgium

Dabbert, Stephan

University of Hohenheim,
Germany

Darmon, Nicole

French National Research Institute for Agricultural
Research (INRA),
France

Daum, Thomas

University of Hohenheim,
Germany

De Groene, Els

Unilever,
The Netherlands

Demaio, Alessandro

EAT,
Norway

De Pee, Saskia

World Food Programme (WFP),
Italy
and Friedman School of Nutrition Science and
Policy, Tufts University,
USA
and Wageningen University,
The Netherlands

Deptford, Amy

World Food Programme (WFP),
Italy

Detzel, Patrick

Nestlé S.A.,
Switzerland

Drewnowski, Adam

University of Washington,
USA

Eggersdorfer, Manfred

University Medical Center Groningen (UMCG)
and Gesellschaft für Angewandte
Vitaminforschung e.V. (GVF),
Germany
and Hokkaido Information University,
Japan

Eiden, Hanns-Christoph

Federal Office for Agriculture and Food (BLE),
Germany

Fernández Celemín, Laura

European Food Information Council (EUFIC),
Belgium

Fongar, Andrea

University of Göttingen,
Germany

Frank, Jan

University of Hohenheim
and Society of Nutrition and Food Science
(SNFS),
Germany

Gabrysch, Sabine

University of Heidelberg,
Germany

Gavin-Smith, Breda

Sight and Life Foundation,
Switzerland

Gurr-Hirsch, Friedlinde

Ministry of Rural Affairs and Consumer Protection
of Baden-Württemberg (MLR),
Germany

Haddad, Lawrence

Global Alliance for Improved Nutrition (GAIN),
Switzerland

Hawkes, Corinna

University of London,
UK

Jensen, Jørgen Dejgaard

University of Copenhagen,
Denmark

Klemm, Rolf D. W.

Helen Keller International (HKI),
USA

Kolmans, Alicia

University of Hohenheim,
Germany

Kraemer, Klaus

Sight & Life Foundation,
Switzerland

Krawinkel, Michael B.

Justus-Liebig-University Giessen,
Germany

Lewis, Dale

Community Markets for Conservation (COMACO),
Zambia

McDermott, John

International Food Policy Research Institute
(IFPRI),
USA

Meenakshi, Jonnalagadda V.

Delhi School of Economics, University of Delhi,
India

Megerle, Heidi E.

University of Applied Forest Sciences Rottenburg,
Germany

Merritt, Rowena

National Social Marketing Centre,
UK

Misago, Aloys

University of Burundi,
Burundi

Mogge, Mathias

Deutsche Welthungerhilfe e.V.,
Germany

Newnham, Paul

SDG 2 Advocacy Hub,
UK

Niragira, Sanctus

University of Burundi,
Burundi

Nkurunziza, Pascal

University of Burundi,
Burundi

Nohr, Donatus

University of Hohenheim,
Germany

Onyango, Anna

Ministry of Agriculture, Livestock and Fisheries,
Kenya

Pingali, Prabhu

Charles H. Dyson School of Applied Economics
and Management, Cornell University,
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Puchan, Grit

Ministry of Rural Affairs and Consumer Protection
of Baden-Württemberg (MLR),
Germany

Qaim, Matin

Georg-August-University of Göttingen,
Germany

Riedel, Simon

University of Hohenheim,
Germany

Sarkar, Archana

Deutsche Gesellschaft für Internationale
Zusammenarbeit (GIZ) GmbH,
India

Schmitz, Stefan

Federal Ministry for Economic Cooperation and
Development (BMZ),
Germany

Schneeman, Barbara

University of California,
USA

Solomons, Noel W.

Center for Studies of Sensory Impairment,
Aging and Metabolism (CeSSIAM),
Guatemala

LIST OF FREE PRESENTATION SPEAKERS (WITHOUT ACADEMIC TITLES)

Terki, Fatiha

World Food Programme (WFP),
Italy

Tokcan Hacaloğlu, Selen

Sabri Ülker Food Research Foundation,
Turkey

Vasconcelos, Marta W.

Catholic University,
Portugal

Vollmer, Sebastian

Centre for Modern Indian Studies,
Georg-August-University of Göttingen,
Germany

von Braun, Joachim

Center for Development Research (ZEF),
Germany

Weber, Andreas

Baden-Württemberg Stiftung gGmbH,
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Wells, Jonathan

University College London, Great Ormond Street
Institute of Child Health,
UK

West, Keith P.

Bloomberg School of Public Health,
Johns Hopkins University,
USA

Wiggins, Steve

Overseas Development Institute (ODI),
UK

Yambi, Olivia

International Panel of Experts on Sustainable
Food Systems (IPES-Food),
Tanzania

Zeller, Manfred

University of Hohenheim,
Germany

Acham, Hedwig

Makerere University,
Uganda

Antonio, Menisa

Mariano Marcos State University,
The Philippines

Boy, Erick

IFPRI-HarvestPlus,
USA

Bodirsky, Benjamin

Potsdam Institute for Climate Impact Research,
Germany

Buuma, Leonard

Bright Youth Farmers Organization,
Uganda

Diana, Agathe

International Crops Research Institute for
Semi-Arid Tropics (ICRISAT),
Mali

Fischer, Sahrah

University of Hohenheim,
Germany

Fraval, Simon

Wageningen University,
The Netherlands

Kaganga, John

Kikandwa Environmental Association,
Uganda

Keats, Emily C.

Centre for Global Child Health,
Hospital for Sick Children,
Toronto

Kornher, Lukas

University of Bonn,
Center for Development Research (ZEF),
Germany

Meleshko, Tamara

Uzhhorod National University,
Ukraine

Nalubega, Rose

Green World Uganda (GWU),
Uganda

Nishimwe, Gaudence

Jomo Kenyatta University of Agriculture
and Technology,
Kenya

Njieassam, Eyongetta

Center for Gender and Youth Solidarity
NGO-Cameroon,
Cameroon

Pedun Aisu, Lydia

International Fertilizer Development Centre,
Uganda

Polanco Medina, Luis A.

University of Hohenheim,
Germany

Rai, Rajesh K.

Society for Health and Demographic Surveillance,
India

Singh, Dheeraj

CAZRI KVK,
India

Wanka, Fru A.

University of the Western Cape,
South Africa

LIST OF POSTERS AND THEIR PRESENTERS (IN ALPHABETICAL ORDER OF PRESENTERS AND WITHOUT ACADEMIC TITLES)

A systematic review assessing the impact of complementary feeding education on growth and morbidity in children under two years of age

Abdus Salam, Rehana et al.; Aga Khan University, Pakistan

Nutrition-specific and sensitive drivers of poor child nutrition in Kilte Awlaelo-Health and Demographic Surveillance Site, Tigray, Northern Ethiopia: Implications for public health nutrition in resource-poor settings

Abera, Semaw et al.; University of Hohenheim, Germany

Anemia prevalence of mothers and children under five among Syrian refugees and Lebanese host communities in Greater Beirut, Lebanon

Abou-Rizk, Joana et al.; University of Hohenheim, Germany

Influence of cyanobacterial bio-fertilizer on crop micronutrient (Zn, Fe, beta-carotene) content

Abuye, Francis et al.; Mekelle University, Ethiopia

The challenge of rapid urban population and food crises in sub Saharan Africa

Adedugbe, Adebola et al.; Farmideas Nigeria, Nigeria

Effect of food expenditure on farming household welfare in Nigeria

Adekunle, Adedayo et al.; University of Ilorin, Nigeria

Neglected vegetables and micronutrient: A friendly twist

Adeniyi, Toluwalase et al.; University of Ilorin, Nigeria

Double jeopardy: obesity, overweight and the challenge of policy in Nigeria

Afolabi, Olugbemiga et al.; Obafemi Awolowo University Ile Ife Nigeria, Nigeria

Edible insects but not *Solanum torvum* improved body composition and iron status in protein and iron deficient rats

Agbemafe, Isaac et al.; Iowa State University, United States

Technological and social innovation for enhancing sustainability of agriculture, food and nutrition outcomes along rural-urban sprawl in Sub-Sahara Africa

Agele, Samuel et al.; Federal University of Technology, Nigeria

The effect of organic amendment on nutrient retention of soils of selected parent material under simulated rainfall in southeastern Nigeria

Agim, Leonard C. et al.; Federal University of Technology Owerri, Nigeria

Impacts of sustainable Okra (*Abelmoschus esculentus*) production through Cocoa pod husk and animal dungs amendments on hidden hunger

Akanbi, Olorunfemi S.O. et al.; Cocoa Research Institute of Nigeria, Nigeria

Growth and yield responses of upland rice to Treated Wastewater (TWW) recycled from a low-cost constructed wetland

Akinbile, Christopher et al.; Federal University of Technology, Nigeria

The outcome of price policy in the food production and agricultural systems in Syria

Almohamed, Salwa et al.; University of Hohenheim, Germany

Social capital, hidden hunger and emerging trend in climate smart agriculture among women arable crop farmers for food security in South Western Nigeria

Amos, Taiwo et al.; Federal University of Technology, Nigeria

The interplay of efficient resources use, remote energy systems and renewables uptakes in sustainable agri-value-chain and production

Amusan, Opeyemi et al.; Amiesol Resources Konsult/Center for Petroleum, Energy Economics & Law, University of Ibadan, Nigeria

Variations in production traits and its relationships with egg quality of individually caged ISA brown hens

Anene, Doreen et al.; University of Sydney, Australia

Effect of iodine agronomic bio-fortification on cassava production and selected physiological characteristics in Southeastern Rain-forest of Nigeria

Ansa, Joseph et al.; Ignatius Ajuru University of Education, Nigeria

Culture of poverty, consumption pattern and food insufficiency transition among family structure in Nigeria: Nexus and double burden of hunger paradox

Apata, Temidayo et al.; Federal University, Nigeria

A comparative study on the dietary diversity and nutritional status of under five years' children born to model and regular farmers in the rural population of Ethiopia

Asayehu, Tamene T. et al.; Addis Ababa Science and Technology University, Ethiopia

Edible oil and ghee fortification status in Pakistan: an existing situational analysis

Asghar, Ali et al.; University of Agriculture, Faisalabad, Pakistan

Policies and strategies for climate change adaptations and food security: a case of science and policy innovative corporation to end hunger in Nigeria

Ayansina, Ayanlade et al.; Obafemi Awolowo University, Nigeria

Role of forest in reducing the double burden of nutrition: sustainable forest management

Ayogu, Justina C. et al.; University of Canterbury, New Zealand

Unmasking the hidden power of natural feed additives in poultry production to achieve food security

Ayuk, Aloysius A. et al.; University of Calabar, Nigeria

Nutrition impact of remittances among low-income households in Nigeria

Babatunde, Raphael Olanrewaju et al.; University of Ilorin, Nigeria

Managing malnutrition with functional beverage developed from of gluten-free acha (*Digitaria exilis*) and tigernut (*Cyperus esculentus*) extract

Badejo, Adebajo et al.; Federal University of Technology, Nigeria

Anemia prevalence in mother-infant pairs in Bukavu, DR Congo

Beitze, Damaris E. et al.; University of Hohenheim, Germany

Integrative analyses on some accessions of cassava (*manihot esculenta crantz*) leaves as a potential leafy vegetable in Nigeria

Bilewu, Olayemi et al.; Forestry Research Institute of Nigeria, Nigeria

Developing innovative and sustainable approaches to prevent the spread of goat plague disease in Democratic Republic of Congo

Birindwa, Bwihangane et al.; Evangelical University in Africa, the Democratic Republic of Congo

The fortification of complementary foods with *Moringa Oleifera* leaf powder – Lessons from the *Moringa* trial in Ghana

Boateng, Laurene et al.; University of Ghana, Ghana

Nutrition education: A pathway to increase in adoption of bio fortified crops in Nigeria

Bolaji, Morolake et al.; University of Ilorin, Nigeria

Drought and hunger as twin constraints to agro-forestry technology adoption: women's coping strategies of survival in Mindanao, Philippines

Calumpang, Lorna et al.; Bureau of Plant Industry, Philippines

Impact of food environment interventions on diet-related health outcomes in school-aged children and adolescents in low- and middle-income countries: A systematic review

Carducci, Bianca et al.; University of Toronto, Canada

Diet quality and knowledge level in micronutrients-rich food intake by indigenous people: A case study of the *Chakma* women in Kobakhali Union, Chittagong Hill-Tracts, Bangladesh

Chowdhury, Mohammad et al.; University of Chittagong, Bangladesh

The potential role of Neglected and Underutilized Plant Species (NUS) in improving women's empowerment and nutrition in Sub-Saharan area

Conti, Maria V. et al.; University of Pavia, Italy

The role of culture in malnutrition and sustainable diets

Conjé, Natasha et al.; University of the Free State, South Africa

***Bacillus pumilus* from banana phyllosphere as an alternative of Black sigatoka management**

Cruz-Martin, Mileidy et al.; Instituto de Biotecnología de las Plantas, Cuba

A systematic review of education and support for breastfeeding promotion

Das, Jai et al.; Aga Khan University, Pakistan

Systems thinking for preventing poor nutrition

De Bruin, Willeke et al.; University of Pretoria, South Africa

Time to act – Institutional and programmatic innovations in Cameroon, Ethiopia, Rwanda and Senegal to tackle malnutrition in all its forms

Demmler, Kathrin et al.; Imperial College London, United Kingdom

Reducing the burden of iron deficiency anemia in Côte D'Ivoire through fortification

Detzel, Patrick et al.; Nestlé Research, Switzerland

Effect of some preparation process parameters on carotenoids of tree Cameroonian dishes prepared with crude palm oil: maize (*Zea mays*), cassava (*Manihot esculente*) and cowpea (*Vigna unguiculata*) cakes

Dongho Dongmo, Fabrice F. et al.; University of Douala, Cameroon

Nutritional value of tree Cameroonian dishes prepared with crude palm oil: maize (*Zea mays*), cassava (*Manihot esculente*) and cowpea (*Vigna unguiculata*) cakes

Dongho Dongmo, Fabrice F. et al.; University of Douala, Cameroon

The double burden of malnutrition during the conflict in Yemen

Dureab, Fekri et al.; Heidelberg Institute of Global Health, Heidelberg University Hospital, Germany

Organomineral fertilizer and Chitosan effects on yield of Fluted pumpkin (*Telfairia occidentalis* F. HOOK) in Calabar, Nigeria

Effa, Emmanuel et al.; University of Calabar, Nigeria

Rutin as an antimicrobial agent against food spoilage microorganisms: *In silico* approach

Ejelonu, Oluwamodupe et al.; Ondo State University of Science and Technology Okitipupa, Nigeria

Carotenoid and VOC retention of biofortified provitamin A maize after storage, milling and alkaline cooking

Ekpa, Onu et al.; Wageningen University and Research Centre, Netherlands

***In silico* antimicrobial properties of saponins against food pathogens and spoilage microorganism**

Elekofehinti, Olusola et al.; Federal University of Technology Akure, Nigeria

Food security and climate challenge: responses of small-scale farmers to extreme climate condition in a part of southwestern Nigeria

Eludoyin, Adebayo et al.; Obafemi Awolowo University, Nigeria

Double burden of malnutrition among high school students is alarming in Yasouj-Iran

Faghih, Shiva et al.; Shahid Beheshti University of Medical Sciences, Iran

Genome-wide association mapping reveals novel QTL hotspots for yield and component traits in bread wheat (*Triticum aestivum* L.) grown under rainfed and irrigated environments

Fellahi, Zine El Abidine et al.; University of Mohamed El Bachir El Ibrahimi, Algeria

Problematic pregnancy in schools and poverty

Fidele, Adet et al.; University of Abomey-Calavi, Benin

Eating the soil: How soil properties affect food's mineral composition

Fischer, Sahrah et al.; University of Hohenheim, Germany

Iron deficiency anemia in HIV positive children in the Northwest Region of Cameroon; a hospital-based study

Fomefret Ines I., Nkaanah et al.; University of Bamenda, Cameroon

Mycotoxins: the invisible yet invincible agent of Africa's hunger problems

Gbashi, Sefater et al.; University of Johannesburg, South Africa

Reducing hidden hunger and protein deficiency with edible insects

Gnanvi, Gwladys et al.; University of Abomey-Calavi, Benin

Double burden of malnutrition in Sub-Sahara Africa; prevalence, cause and consequence

Gvuakporaye, Pius G. et al.; Delta State College of Education, Nigeria

Better nutrition a precondition to achieve Sustainable Development Goals in Pakistan

Haider, Zameer et al.; Nutrition International, Pakistan

Anthropometric measurements determinant nutritional status of urban primary school children in selected areas of Iran and India: A comparative study

Hooshmand, Sahar et al.; Imtenan International Health and Trade, Netherlands

Potentials and future improvement of spider plant (*Gynandropsis gynandra* (L.) Briq.) for fighting hidden hunger in Africa

Houdegbe, Aristide C. et al.; University of KwaZulu-Natal, Benin

Differentiated household roles as a factor of double burden malnutrition in Garissa Sub County

Huho, Julius M. et al.; Garissa University, Kenya

Nutrition: the bedrock of malnutrition alleviation in Nigeria

Idiku, Friday O. et al.; University of Calabar, Nigeria

Nutritive value of infested kolanuts (*Cola nitida*) Coleoptera: Curculionidae, treated with three pesticidal plants

Ifebueme, Michael N. et al.; University of Calabar, Nigeria

Evaluation of physical activities and dietary diversification practices as preventive measures against high blood pressure among Nigerian undergraduate students

Ijarotimi, Oluwole S. et al.; Federal University of Technology, Nigeria

Factors influencing students' food consumption pattern and source in university of Nigeria Nsukka, Enugu state, Nigeria

Ike, Chinweoke U. et al.; University of Nigeria, Nigeria

Food expenditure and subsistence systems of households in Nsukka local government area, Enugu state, Nigeria

Ike, Chinweoke U. et al.; University of Nigeria, Nigeria

Policy approach towards the sustainability of the school feeding programme in selected township schools in Cape Town, South Africa

Ilori, Emmanuel et al.; University of the Western Cape, South Africa

Improving food security and nutrition in the Gambia through food fortification

Jarju, Ousman M. et al.; National Agricultural Research Institute, Gambia

Characterization and screening of indigenous microflora of a traditional fermented African yam bean (*Sphenostylis sternocarpa* Harms) seeds product for boosting female farmers income in Nigeria

Jeff-Agboola, Yemisi A. et al.; University of Medical Sciences, Nigeria

Women's educational empowerment and its impact on early childhood development of rural girls in Himalaya

Joshi, Bhagwati et al.; Government Post Graduate College, India

Understanding the malnutrition crisis in Semi-Arid Tropics of India – a gender and diversity perspective

Kasala, Kavitha et al.; International Crops Research Institute for the Semi-Arid Tropics (ICRISAT), India

Using Kikalakasa Food (*Psophocarpus scandens*) as a micronutrient vehicle to reduce hidden hunger and malnutrition in developing countries. Study case in democratic republic of Congo

Katshukaniam, Jonathan et al.; Université pédagogique nationale, the Democratic Republic of the Congo

Vitamin D₂ from sun-treated oyster mushroom as an adjunctive therapy of tuberculosis

Keflie, Tibebelesassie et al.; University of Hohenheim, Germany

Response of soil physico-chemical properties to tillage and soil fertility inputs in the Central Highlands of Kenya

Kiboi, Milka et al.; University of Embu, Kenya

Combined effect of health care and food insecurity on physical and mental health in Korean adults: results from the Korea National Health and Nutrition Examination Survey, 2012-2015

Kim, Kirang et al.; Dankook University, Republic of Korea

Personalized nutrition – an innovative concept to combat the double burden of malnutrition

Kolossa, Silvia et al.; Technische Universität München, Germany

Nutritional intake of *Solanum nigrum* Linn. leaves fortified with peanut paste consumed at breakfast in rural zones in Côte d'Ivoire

Kouadio, Irène A. et al.; University Félix Houphouët-Boigny, Côte d'Ivoire

An indigenous reframing of food sovereignty as counter-response to hidden hunger

Leung, Jason et al.; Benguet State University, Philippines

Modelling maize yield production, carbon dioxide (CO₂) and nitrous oxide (N₂O) emissions in a semiarid environment in the central highlands of Kenya using DeNitrification-DeComposition (DNDC) model under climate variability

Macharia, Joseph et al.; Kenyatta University, Kenya

Education approaches as result of ending nutrition problem in the Africa continent: where and why

Madoda, George et al.; Kenneth School, United Republic of Tanzania

Feeding practices and malnutrition among under five children in communities of Kuje area council, Federal Capital Territory Abuja, Nigeria

Maduforo, Aloysius et al.; University of Nigeria, Nigeria

Prevalence of double burden of malnutrition among infants in Mangu, Local Government Area, Plateau State

Maduforo, Aloysius et al.; University of Nigeria, Nigeria

Rickets and associated micronutrient deficiency among mother-child pair in rural communities of Kuje area council, federal capital territory Abuja, Nigeria

Maduforo, Aloysius et al.; University of Nigeria, Nigeria

Different types of interventions: What works where and why – from a holistic angle

Marla, Irmí et al.; International Institute for Holistic Research and Voluntary Action/Rural Business Hub Foundation India, India

Characterization and application of phytochemicals substances of the fig tree

Mazri, Chafiaa et al.; Faculté SNVT de l' Université de Bouira, Algeria

Nutritional status and associated factors among pastoral children under changes in southern Ethiopia

Megersa, Bekele et al.; Hawassa University, Ethiopia

Micronutrients deficiencies in smallholder farms across west Africa and their implications on human health

Mesele, Samuel et al.; Federal University of Agriculture Abeokuta, Nigeria

The untapped role of baobab in improving nutrition and food security status of households residing along the baobab belt in Kenya

Momanyi, Dorah et al.; Jomo Kenyatta University of Agriculture and Technology, Kenya

Safe and nutritious food: Ideal family! – Improving food hygiene behaviors through emotional drivers

Müller, Anna et al.; University of Heidelberg, Germany

Shelf life of cold stored hydrocooled carrots

Munbodh, Roop S. et al.; Food & Agricultural Research & Extension Institute, Mauritius

Exploring the potential contribution of homestead gardens and climate smart technologies to improved fresh vegetable access

Murugani, Vongai et al.; University of KwaZulu-Natal, South Africa

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Understanding anemia in rural Bangladesh: a critical step for effective intervention design

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Rapid methods for testing micronutrients in fortified and biofortified foods

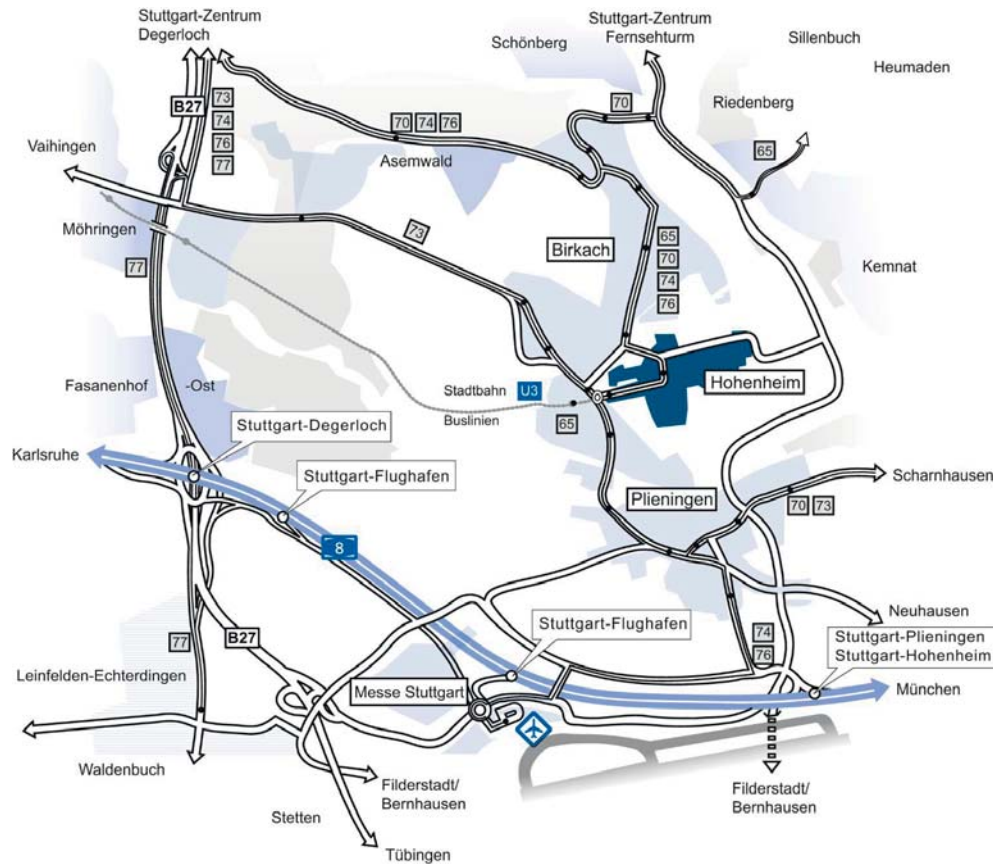
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Assessing the nutritional quality and consumer acceptability of Moringa Oleifera leaf powder (MOLP)-based snacks for improved children's food and nutrition security

Zungu, Nozipho et al.; University of KwaZulu Natal, South Africa



HOW TO REACH THE UNIVERSITY OF HOHENHEIM



COMING BY CAR

Coming from Stuttgart town centre:

At Charlottenplatz (near the “Schloss” palace) turn from the B14 road (Konrad-Adenauer-Straße) into B27 (Charlottenstraße) and carry straight on. The road will become a dual carriageway later on. Take exit S-Hohenheim. Follow the signs for S-Plieningen/ S-Hohenheim for a few kilometers until you reach S-Plieningen. Turn left towards the University of Hohenheim. At next opportunity turn right. Follow the street until you reach the car park.

Coming from Karlsruhe/Heilbronn:

Motorway A8, exit Stuttgart-Flughafen/ S-Hohenheim, keep left and follow signs towards S-Hohenheim. In Plieningen turn left towards the University of Hohenheim. When you reach the traffic circle, take the first exit. Follow the street until you reach the car park.

COMING BY TRAIN

Public transportation from Stuttgart train station:

Take the U7 or U15 underground/tram line (leaving from lower station level) towards Ostfildern. Exit at “Ruhbank (Fernsehturm)” station, change to bus number 70 towards Plieningen, which stops at the University of Hohenheim.

Or: Take the U5, U6 or U12 underground/ tram line (leaving from lower station level) towards Leinfelden or Fasanenhof to Möhringen. At Möhringen station, change to the U3 towards “Plieningen (Universität Hohenheim)”. Exit train at Plieningen Garbe. From here, the University of Hohenheim can be easily reached on foot or by bus number 65 towards Obertürkheim stopping at the “University of Hohenheim”.

Taxi from Stuttgart rail station:

Fare approx. € 20-25.

Travel time: approx. 25 mins.

COMING BY AIRPLANE

Public transportation from Stuttgart airport:

Take the bus number 122, exit at “Plieningen-Post” and change to bus number 70 or 74. Travel time: 25-35 mins.

Taxi from Stuttgart airport:

Fare approx. € 15.

Travel time: approx. 15 mins.

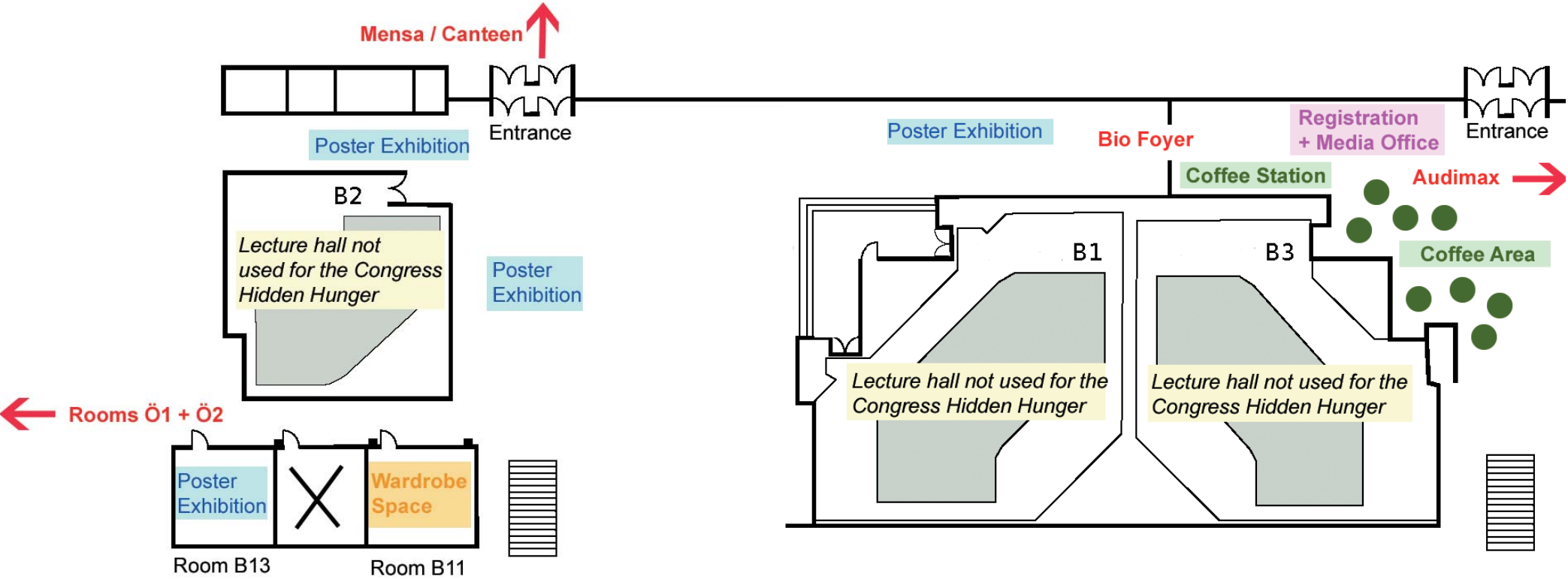
COMING BY BICYCLE

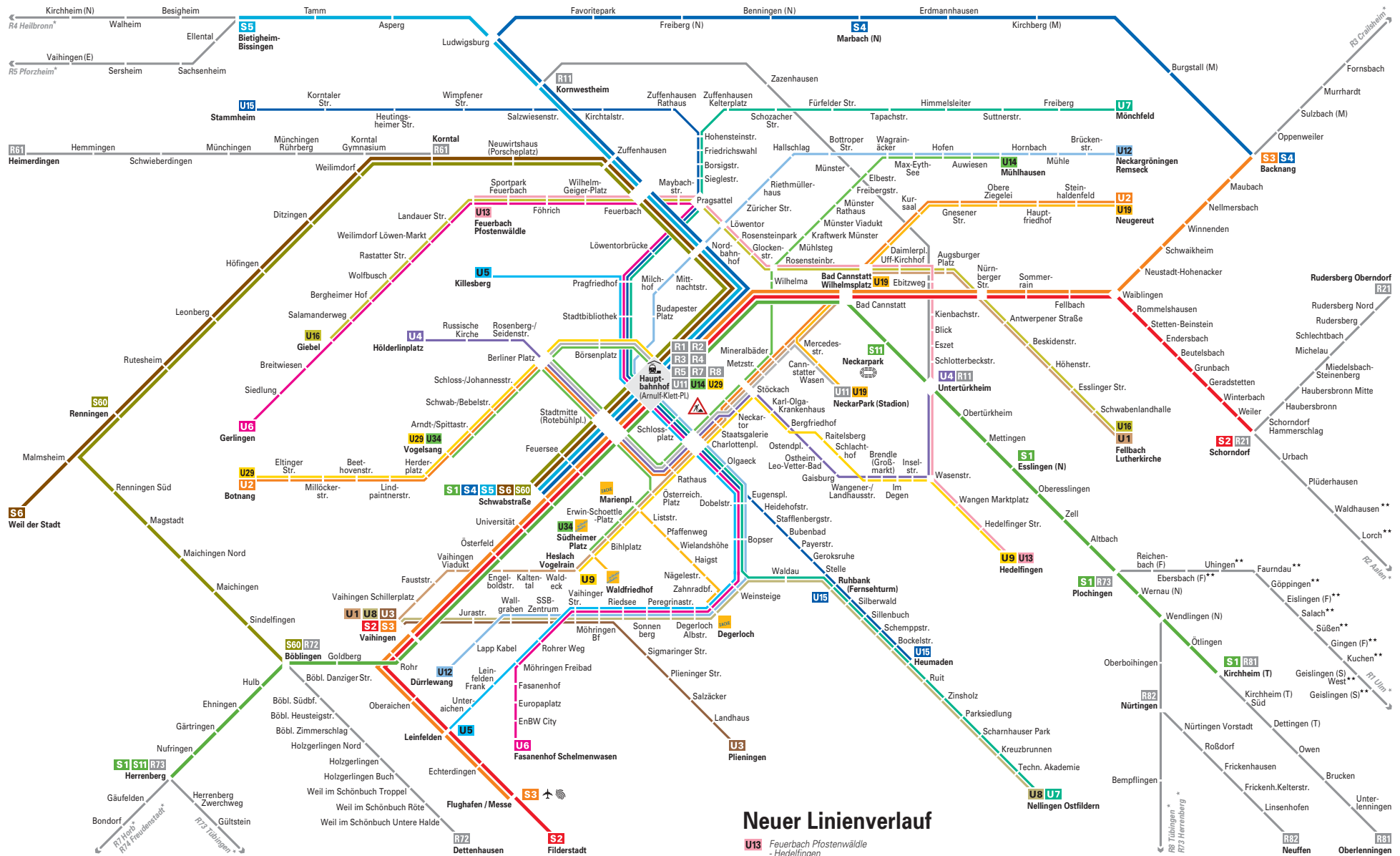
University of Hohenheim can be easily reached by bicycle from the surrounding districts. With the help of a route planner, provided by the VVS (public transport) and the “Radinitiative” of the University of Hohenheim, you can put together individual bicycle routes in combination with public transportation.

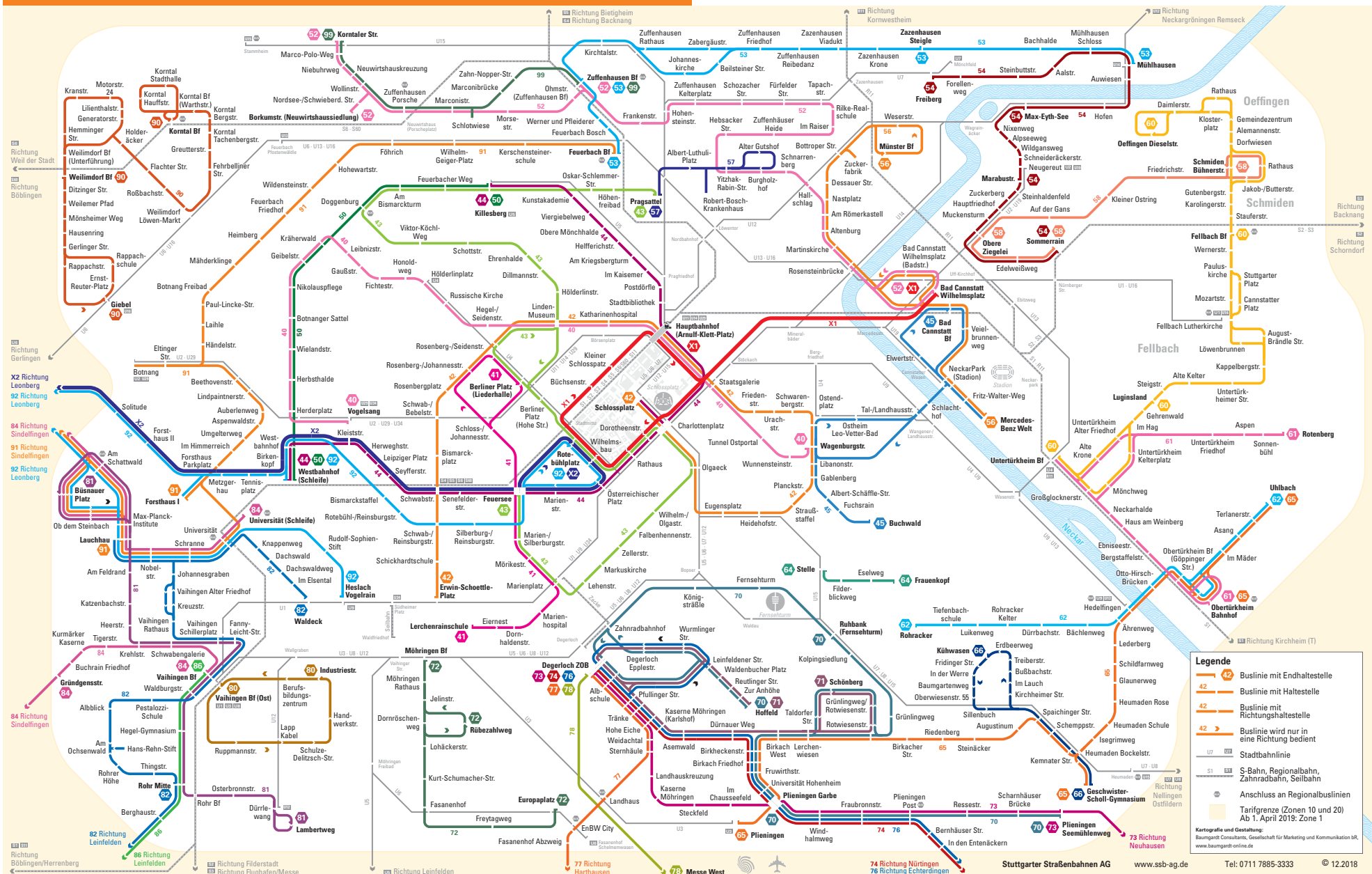
(More about public transportation see pages 88-91)

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