

# DFG Status Workshop 9-10 April 2024

## African-German Scientific Exchange in the Field of Sustainable Intensification of Agriculture

### Monday, 8 April 2024

All day	<b>Arrival</b> Gustav-Stresemann-Institut (GSI) e. V., Langer Grabenweg 68, 53175 Bonn NYCE Hotel, Bernkasteler Straße 2, 53175 Bonn Maritim Hotel Bonn, Godesberger Allee, 53175 Bonn
Starting 18:30	<b>Welcome Reception with Dinner Buffet</b> at Gustav-Stresemann-Institut (GSI) e. V., Langer Grabenweg 68, 53175 Bonn

### Tuesday, 9 April 2024, Wissenschaftszentrum (WZ), Ahrstraße 45, 53175 Bonn

### Room

	<b>Welcome Session</b> (Chair: Dr. Marcus Wilms)	
09:00 – 09:15	<b>Welcome on behalf of DFG</b>	K1+2
09:15 – 09:30	<b>DFG President Prof. Dr. Katja Becker</b>	K1+2
09:30 – 10:00	<b>DFG Senator Prof. Dr. Georg Guggenberger</b>	K1+2
10:00 – 10:30	<b>Keynote Lecture Prof. Dr. Vicky Temperton</b> “Food security and livelihoods in restoration landscapes in western Rwanda”	K1+2
10:30 – 11:00	<b>Preview on the programme</b> (Ariane Brake)	K1+2
11:00 – 11:30	Coffee Break, Networking, Posters (incl. Group Photo)	Foyer
	<b>Connect &amp; Exchange Sessions</b> (Chair: Ariane Brake)	
	<b>Connect &amp; Exchange I: Project presentations</b> (For group allocation see below.)	
11:30 – 13:00	Group A: Economy/Sociology/Technology/Digitalisation (Chair: Atridah Mulonga)	S3+4
	Group B: Animal Sciences/Microorganisms (Chair: Dr. Paulin Wendler)	S1
	Group C: Ecology (Chair: Dirce Madeira)	K1+2
	Group D: Soil Sciences/Plant Breeding/Plant Pathology (Chair: Dr. Patricia Schmitz-Möller)	S2
13:00 – 14:00	Lunch	
14:00 – 14:30	<b>Plenum</b>	K1+2
	<b>Connect &amp; Exchange II: Research in an international context</b> (Focus topics will be agreed upon in plenary. Choose your group.)	
14:30 – 16:00	Focus Topic 1 (Chair: Souleymane Thiam)	S3+4
	Focus Topic 2 (Chair: Dr. Saturnin Enzonga Yoca)	S1
	Focus Topic 3 (Chair: Kalisa M. Felly)	K1+2
	Focus Topic 4 (Chair: Dr. Marcus Wilms)	S2
16:00 – 16:30	Coffee Break, Networking, Posters	Foyer

<b>Closing Session</b> (Chair: Dr. Marcus Wilms)		
<b>16:30 – 17:30</b>	<b>Wrap-Up and Concluding Remarks</b>	K1+2
Starting 18:00	Dinner Buffet at TAO, Mildred-Scheel-Straße 1, 53175 Bonn	
<b>Wednesday, 10 April 2024, Wissenschaftszentrum (WZ), Ahrstraße 45, 53175 Bonn</b>		
<b>Information Session</b> (Chair: Dr. Kathrin Knodel)		
<b>09:00 – 09:10</b>	<b>Welcome and Introduction</b>	
<b>09:10 – 10:00</b>	<b>Equitable Research Partnership – Perspectives from IDRC &amp; Discussion</b> Souleymane Thiam, Canada's International Development Research Centre	K1+2
<b>10:00 – 10:20</b>	<b>DAAD Activities in Sub-Saharan Africa</b> Lena Leumer, Center for International Academic Collaborations (KIWi)	K1+2
10:20 – 10:50	Coffee Break, Networking, Posters	Foyer
<b>10:50 – 11:10</b>	<b>DFG Activities with Africa</b> Dr. Kathrin Knodel	K1+2
<b>11:10 – 12:00</b>	<b>Way Forward: DFG Individual Research Grants</b> Dr. Patricia Schmitz-Möller	K1+2
<b>12:00 – 12:30</b>	<b>Concluding Remarks</b> Dr. Marcus Wilms	K1+2
12:30 – 13:30	Lunch & Farewell	

For urgent questions and requests, please contact:

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## Connect & Exchange I: Project Presentations

### Session 1: Economy/Sociology/Technology/Digitalisation

Andrew Opoku, Awudu, Abdulai, Victor Owusu:

*Sustainable intensification in Agriculture for rural economic transformation*

Dietrich Darr, James Peter Egonyu, Matthias Kleinke, Regina Pohle-Fröhlich:

*CONFARMED: Multidisciplinary approach to CONserve and FARM EDible insects for a circular food economy in Uganda*

Abidi Bilalissi, Eric Nyarko, Juliet Kariuki, Oyegunle Emmanuel Oke:

*Gender dynamics in family poultry in Togo and Nigeria and implications for intensification*

Andrew Opoku, Mouritala Sikirou, Olivier Kashongwe:

*Sustainable Innovations and Digitalization in Crop - Livestock Systems Subsaharan Africa (INNOVAFRIKA)*

Eric Nyarko, Eric Kobina Tutu Tchao, Fatima Lambarraa-Lehnhardt, Omanuswa Zelda:  
*Adoption of digital tools by African farmers for sustainable intensification of cropping systems: A case study of Nigeria*

Abera Habte, Adetunji Kehinde, Akwasi Adutwum Abunyewa, Chika Jidere, Christelle Boko, Deborah Kaufmann, Klaus Meissner, Rodrigue V. Cao Diogo:  
*Applications of solar cooling devices for a better quality and safety management of perishable foods in West Africa*

Franziska Schünemann, Marhter Ngigi:  
*Structural transformation and the role of women for sustainable intensification in Sub-Saharan African agriculture (SURMOUNT)*

## **Session 2: Animal Sciences/Microorganisms**

Abidi Bilalissi, Camus Adoligbe, Georcelin Alowanou, Jörg R. Aschenbach, Kokou Voemesse, Oyegunle Emmanuel Oke:  
*Targeting heat stress resilience in poultry using genomic selection and local plant-bioactive lipid compounds in Sub-Saharan West Africa (HeatRes)*

Folkard Asch, Eric Kemen, Tovohera Rakotoson:  
*The role of microorganisms in iron toxicity in rice (Oryza sativa)*

Aberra Melesse, Abidi Bilalissi, Amelia Silva Camarinha, Camus Adoligbe, Divine Ewane, Lucas Assava Ruth Ofongo:  
*The role of (epi-)genetics and the gut microbiome on feeding, health prophylaxis, and management strategies*

Abdulmojeed Yakubu, Abubeker Hassen, Bossima Ivan Koura, Bruno Stephen July Phiri, Camus Adoligbe, Luc Hippolyte Dossa, Mizeck Chagunda:  
*Towards better understanding of indigenous-cattle genotype resilience in the changing climatic environment and intensified crop-livestock production systems in Sub-Saharan Africa*

Akwasi Adutwum Abunyewa, Dietrich Stephan, Franics Padi, James Seutra Kaba, Joseph Osafor Eduah, Rita Grosch, Theresa Kuhl-Nagel:  
*Exploiting the rhizosphere microbiome of cocoa trees to improve tolerance against drought conditions*

Adam Schikora, Jarishma Gokul, Lise Korsten, Loandi Richter:  
*Mechanisms used by human pathogens to adapt and persist in agricultural environments*

## **Session 3: Ecology**

Abduhrahim Alkassab, Anke Dietzsch, Dassou Anicet, Drissa Coulibaly, Jakob H. Eckert, Katharina Stein, Lucy Kamau, Kirsten Traynor, Mazi Sanda, Regina Pohle-Fröhlich:  
*Monitoring agro-ecosystems of sub-Saharan Africa: Pesticides and land use as stressors for plants, bees and pollination interactions*

Casper Nyamukondiwa, Joyce Nakatumba-Nabende, Katharina Stein, Klaus Birkhofer, Pia Addison, Regina Pohle-Fröhlich, Reyard Mutamiswa, Seth Johannes Eiseb, Shem Kuyah:  
*Artificial intelligence (AI)-based methods to monitor arthropods for improved pollination and pest control in sustainable African fruit orchards*

Anna Cord, Casper Nyamukondiwa, Frank Wätzold, Klaus Birkhofer, Martin Paul Tabe-Ojong, Pia Addison, Reyard Mutamiswa, Sunday Ekesi:  
*Agricultural pests under changing landscapes and climates: opportunities and costs to mitigate crop damage through managing biodiversity in Southern Africa (PestClim)*

Casper Nyamukondiwa, Dassou Anicet, Eric Nyarko, Joelle Toffa, Laura Maria Comella:  
*STOP\_FAW: Towards the development of participatory climate smart tools for integrated fall armyworm management*

Abera Habte, Adetunji Kehinde, Akwasi Aduwum Abunyewa, Carsten Lorz, Chika Jidere, Christelle Boko, Bernhard Schauburger, Rodrigue V. Cao Diogo, Stefan Wittkopf:  
*African-German Applied Research Initiative on Agroforestry - Perspectives from Sub-Sahara Africa and Germany*

Adewale Olagoke, Dassou Anicet, Emily Poppenborg, Felipe Libran-Embid, Regina Pohle-Fröhlich:  
*The impact of plant diversity and habitat complexity on arthropod biodiversity and pest regulation in cashew and mango agroecosystems of Benin*

#### **Session 4: Soil Sciences/Plant Breeding/Plant Pathology**

Barbara Arthur, Florent Anguilles Dehogbe Noulekoun, Efstathios Diamantopoulos, Mutez Ali Ahmed, Samuel Kumahor:  
*The impact of plant diversity and habitat complexity on arthropod biodiversity and pest regulation in cashew and mango agroecosystems of Benin*

Eltayb Abdellatif, Petra Bauer, Yohannes Gedamu Gebre:  
*Developing iron-biofortified Cowpea (Vigna unguiculata) for food and nutritional security to alleviate the severe micronutrient malnutrition in Sub Saharan Africa (IrBiAfCw)*

Emmanuel Menya, Ermias Tesfaye Teferi, Geoffrey Kingori Gathungu, Holger Pabst, James Peter Egonyu, Matthias Kleinke, Moritz Wagner, Mwemezi Rwiza, Seid Hussen Muhie, Thomas Rewe:  
*Cascading use of agricultural, agro-industrial and urban organic wastes (green-COW)*

Oumar Doungou, Samar Sheat, Stephan Winter:  
*Controlling virus diseases of cassava in Cameroon with improved planting materials and preventing introduction and spread of cassava brown streak disease with pre-emptive measures*

Basile Mujinya Bazirake, Cordula Vogel, Karsten Kalbitz, Laurent Kidinda Kidinda:  
*Utilization of termite mound material and rock powder towards a more sustainable agriculture in southern Democratic Republic of Congo*