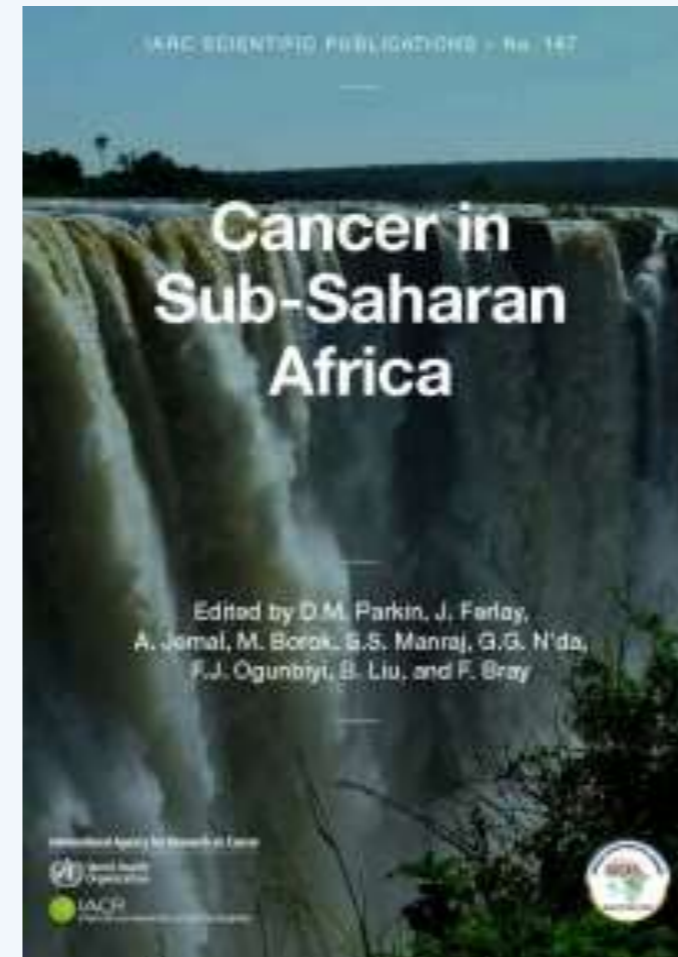
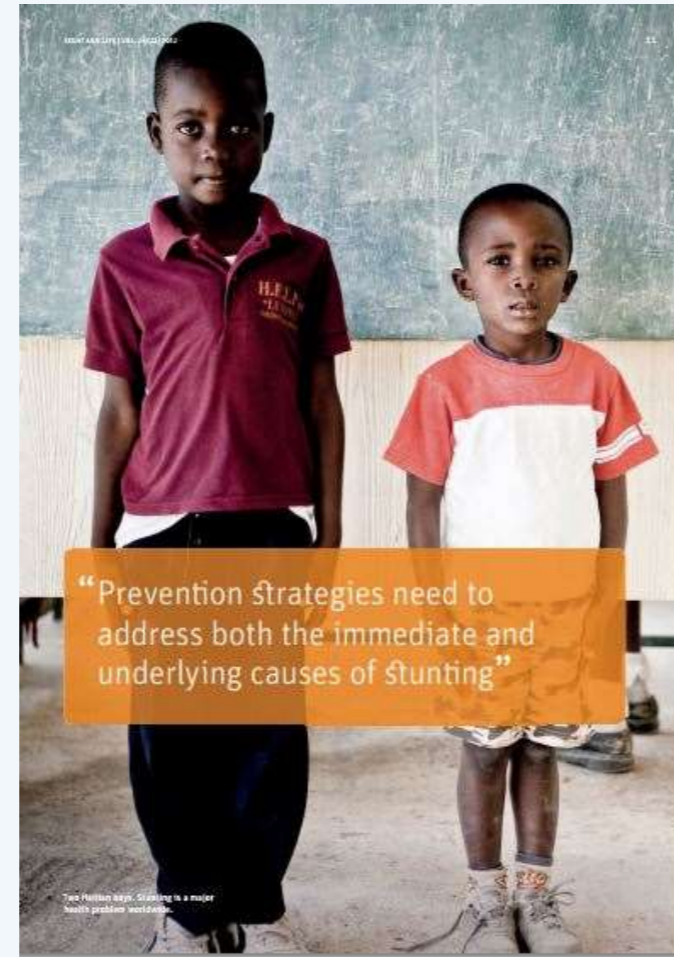
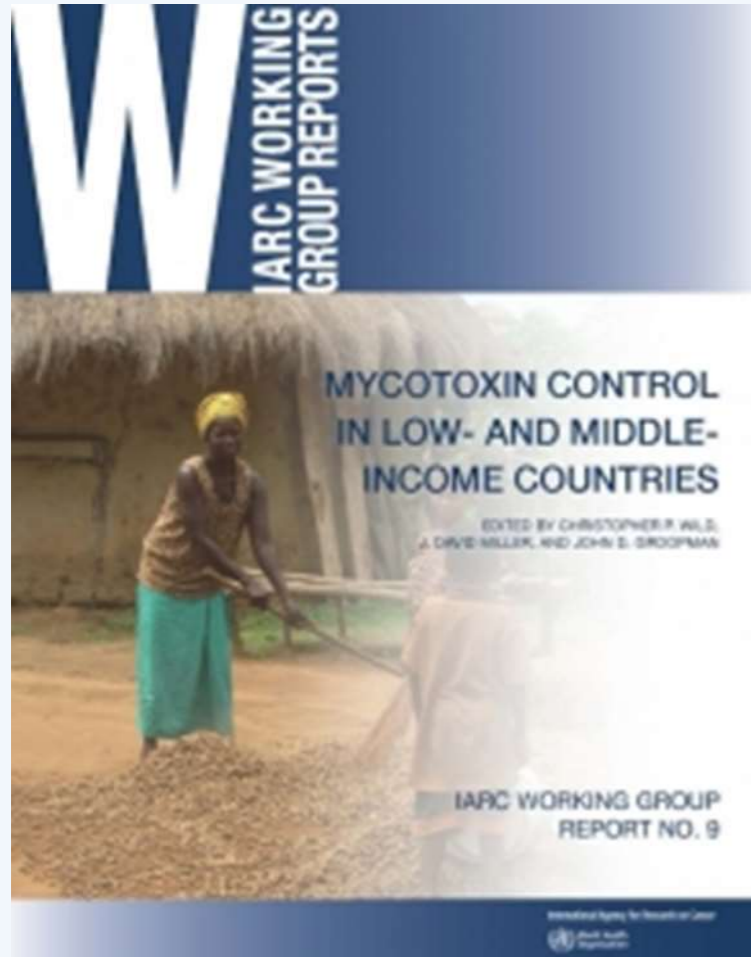


International cooperation: MYTOX-SOUTH partnership to improve food security & food safety

Prof. Sarah De Saeger, Dr. Marthe De Boevre & Prof. Carl Lachat

MYCOTOXINS AND HEALTH



IARC concluded that **Aflatoxins & Fumonisin** not only are a cause of acute poisoning and cancer but also are a **likely contributor** to the high levels of stunting in children in affected populations. 26% of the world's children younger than 5 years having stunted stature.

GLOBAL PROBLEM NEEDS INTERNATIONAL APPROACH



MYTOX-SOUTH Coordination at GHENT UNIVERSITY

- CoE in Mycotoxicology and Public Health



Prof. Dr. Sarah De Saeger & Dr. Marthe De Boevre (Coordinators)

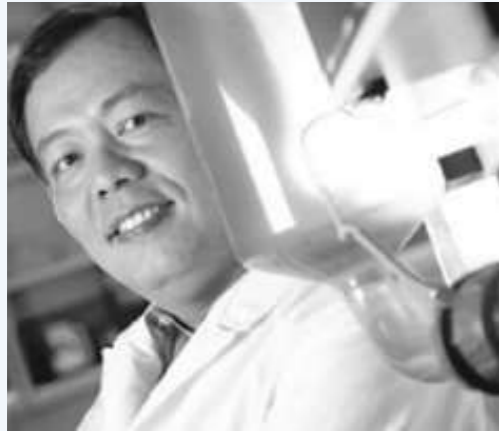
Prof. Dr. Carl Lachat (Nutrition and Health expert)



Supported by the Ghent University Global Minds Fund



MYTOX-SOUTH PARTNERS



Biointellipro Inc.

Dr. Martin Lo



WFPC

Dr. Charlie Wilson



ISPA-CNR, Italy

Dr. Antonio Moretti



CAS, Shanghai

Prof. Aibo Wu



Complutense Uni, Madrid

Dr. María C. Moreno-Bondi

GHENT UNIVERSITY

G. Haesaert & K. Audenaert

B. De Meulenaer, C. Lachat, L. Jacxsens & P. Kolsteren

S. Croubels & G. Antonissen

M. Eeckhout

P. Dubruel

S. Dehenauw & S. Abbeddou



EUROPEAN COMMISSION

JOINT RESEARCH CENTRE

Directorate Sustainable Resources (Ispra)

Food Security Unit

Letter of collaboration signed May 2020



MYTOX-SOUTH PARTNERS



Prof. Sheila Okoth & Dr. Johanna Lindahl - Dr. Delia Grace ILRI (Kenya)

Prof. Obadina Adewale, Prof. Atanda Olusegun, Prof. Hussaini Makun & Prof. Yemisi Jeff-Agboola (Nigeria)

Prof. Loveness Nyanga (Zimbabwe)

Dr. Limbikani Matumba (Malawi)

Prof. Ashagrie Woldegiorgis (Ethiopia)

Dr. Lindy Rose & Prof. Patrick Njobeh & Prof. Mulunda Mwanza (South Africa)

Dr. Happy Magoha & Prof. Martin Kimanya (Tanzania)

Dr. Richard Echodu (Uganda)

Prof. dr. Andrea Patriarca & Prof. Sofia Chulze (Argentina)

(PAEPARD) Platform for an Africa-Europe Partnership for Agricultural Research for Development (François Stepman)

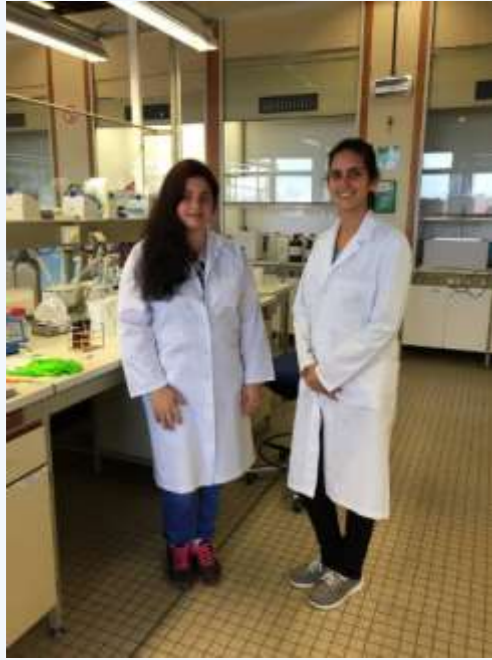


MYTOX-SOUTH: AIM

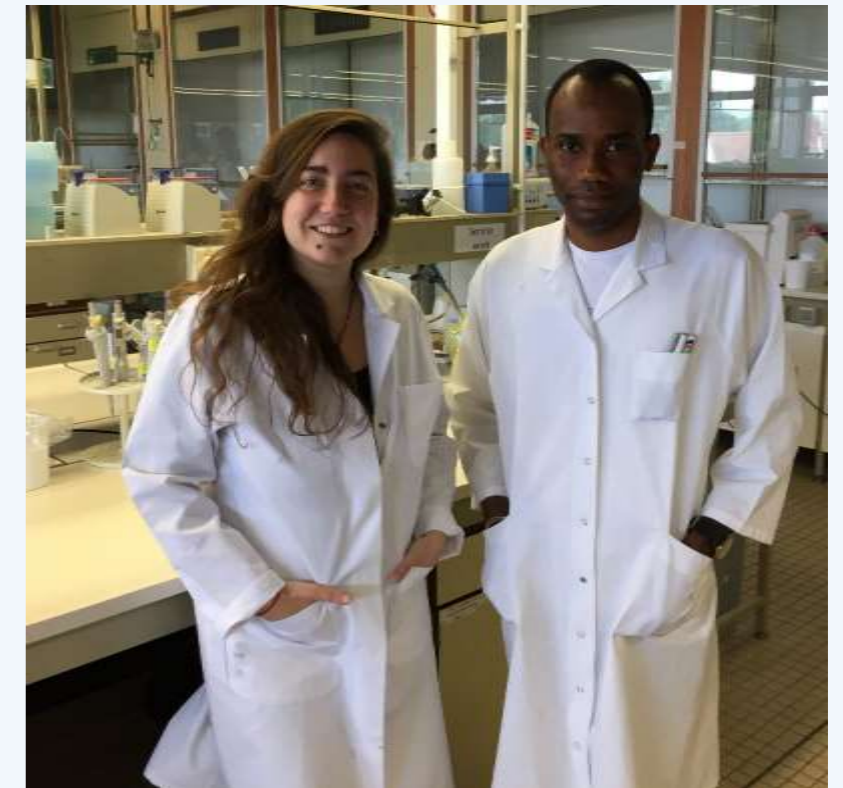
- 1. Educating & training young students & scientists from low- & middle-income countries - Building capacity through co-creation**
2. Awareness creation – Networking/partnerships
3. Conducting research and developing innovative technologies in terms of suitable mitigation strategies



MYTOX-SOUTH selects young researchers for **traineeship periods** (1 to 6 months).



- Agustina Pavicich (Buenos Aires University, Argentina) - 2018
- Sefater Gbashi (Johannesburg University (UJ), South-Africa) - 2018
- John Awiel (South Sudan) - 2018
- Ayodele Adebayo Soretirei (Nigeria) - 2019
- Ouahamin Olivier Sombie (Burkina Faso) – 2019
- Rumbidzai Changwa (UJ, South-Africa) - 2019
- Olabisi Adeola Lanlokun (Nigeria) -2021
- Kgomotso Galian Setsetse (Northwest University, South-Africa) - 2021



MYTOX-SOUTH: AIM

1. Educating & training young students & scientists from low- & middle-income countries - Building capacity through co-creation
- 2. Awareness creation – networking/partnerships**
3. Conducting research and developing innovative technologies in terms of suitable mitigation strategies



Dissemination to policy makers



Harare,
Zimbabwe,
February 2018



Dissemination to policy makers

FIT-UGent
mission,
November
2019



Trade Mission Nigeria

SEMINAR AFRICA PLATFORM OF GHENT UNIVERSITY ASSOCIATION
ACADEMIA-PRIVATE SECTOR COLLABORATION: BEST PRACTICES

TUESDAY 12 NOVEMBER 2019 – EKO HOTEL, LAGOS

14h00: **Opening and introduction**
by Annelies Verdoolaege (Coordinator Africa Platform AUGent)

14h10: **Presentations by:**

- Sarah De Saeger & Marthe De Boevre (Mytox-South, Ghent University)
- Marc Heijde (VIB-IPBO, Ghent University)
- Hussaini Anthony Makun (Federal University of Technology, Minna)
- Reinout Impens (SIAT Group)
- Frederick Schreurs (IITA's Business Incubation)

15h30: **Coffee break and poster presentations of UGent and IFS alumni**

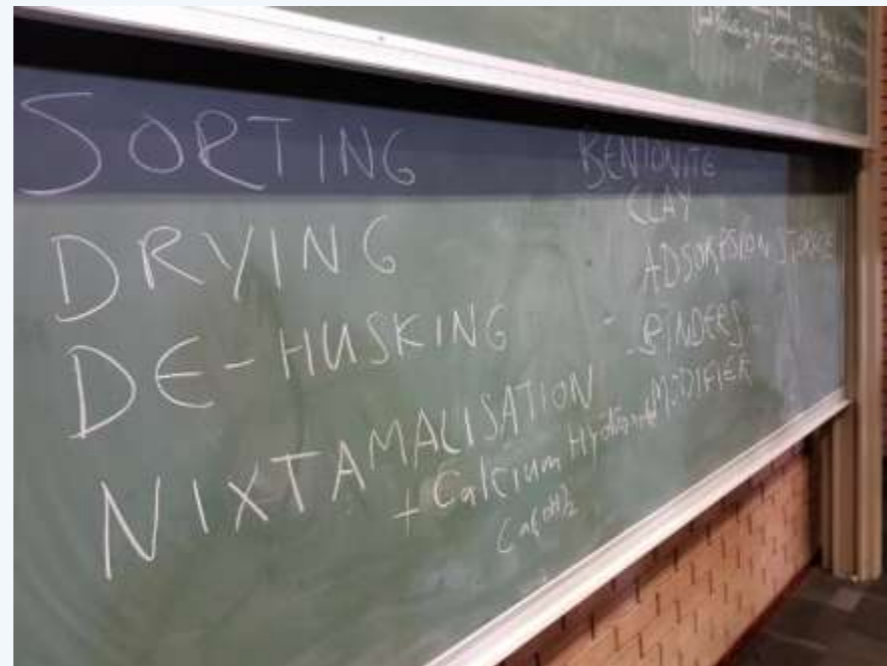
16h30: **Presentations by:**

- Jelmen Haaze (Belgian Alliance for Sustainable Palmoil)
- Robert Coleman (Dangote Foods)
- Emmanuel Ijewere (Nigerian Agribusiness Group)
- Representatives of the Nigerian diaspora in Belgium (Ette Ibibio, Tonia Nkiru Emejuru & Azubuikwe Erinugha)

17h30: **Q&A**



Awareness creation for farmers



MYTOX-SOUTH: AIM

1. Educating & training young students & scientists from low- & middle-income countries - Building capacity through co-creation
2. Awareness creation - Networking/partnerships
3. **Conducting research and developing innovative technologies in terms of suitable mitigation strategies**



MYTOX-SOUTH collaborative projects



A **L**ong term **EU- Africa** research and innovation **P**artnership on food and nutrition security and sustainable **A**griculture

MYCO-SAFE SOUTH. To provide **safe-use options for AFs and/or FBs-contaminated food for children and adults** through means of safe and efficient **post-harvest intervention strategies**, including nixtamalization, dehulling, fermentation and the usage of mycotoxin binders and/or modifiers investigated via *in vitro* and *in vivo* studies.

Nearly **US\$ 1M project** to tackle the mycotoxin issue in Africa!

Coordination: Prof. Siska Coubels and Prof. Gunther Antonissen



MYTOX-SOUTH collaborative projects

January 2019

The **World Bank grant (ACE Impact) for Mycotoxin Research in Africa**



The Food and Toxicology Research Group (FTRG) of the **Federal University of Technology Minna (FUT) (Nigeria)** together with MYTOX-SOUTH were awarded to establish the **“African Centre of Excellence (ACE) for Mycotoxin and Food Safety”**, \$6M

The creation of ACEMFS will create learning opportunities and research results to address Africa’s shortage of expertise and applicable solutions to ensure a safe, controlled and sufficient food supply that will support economic growth and public health.

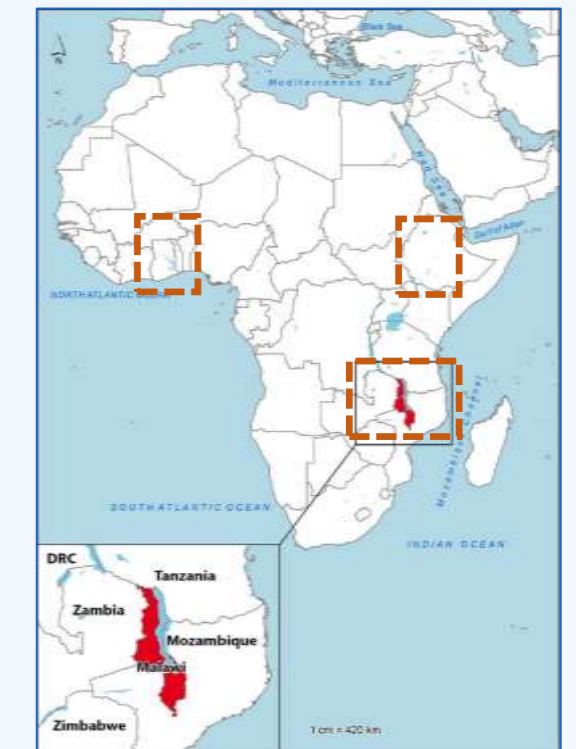
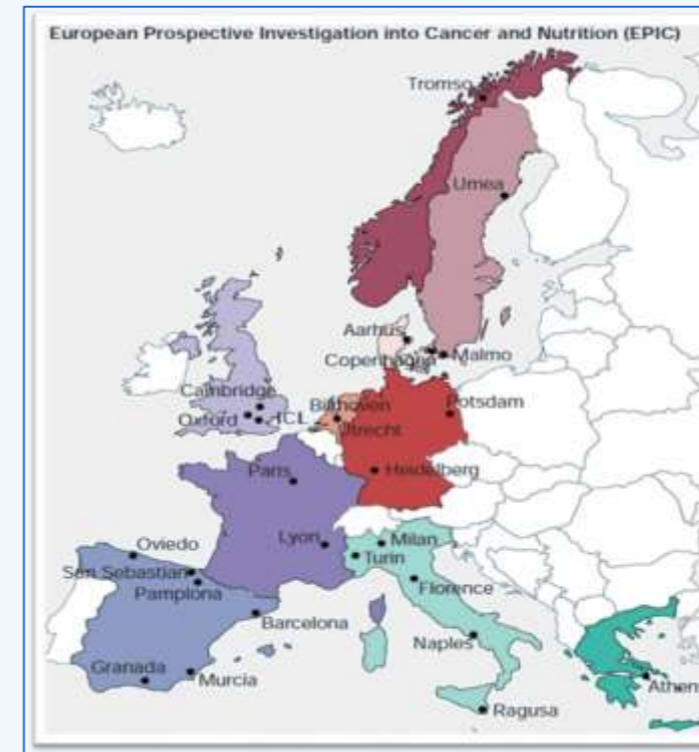
Coordination: Prof. Hussaini Makun (FUT)



ERC STG HuMyco - DR. MARTHE DE BOEVRE

INVESTIGATING THE HUMAN MYCOBOLOME THROUGH UNITING LARGE-SCALE EPIDEMIOLOGICAL AND MECHANISTIC POLY-OMIC DESIGNS (2021 - 2026)

- IDENTIFICATION NEW MYCOTOXIN BIOMARKERS OF EXPOSURE AND EFFECT
- EXTERNAL RISK ASSESSMENT WITHIN EUROPEAN PROSPECTIVE COHORTS & PROOF-OF-CONCEPT AFRICA
- INTERNAL RISK ASSESSMENT VIA BIOMARKER PROFILING WITHIN EUROPEAN PROSPECTIVE COHORTS & AFRICA



International Agency for Research on Cancer



MYTOX-SOUTH : TAKE HOME

- To make progress in mycotoxin and food safety management, we need:
 - interdisciplinary research & development
 - co-creation
 - an international approach
 - outreach and debate with different policy makers, farmers, scientists



Team up for safety

Food safety is a shared responsibility



Prof. Sarah De Saeger

CENTRE OF EXCELLENCE IN MYCOTOXICOLOGY & PUBLIC HEALTH

E sarah.desaeger@ugent.be; marthe.deboevre@ugent.be

T +32 9 264 81 34

 Ghent University

 @ugent @mytoxsouth

 Ghent University

www.ugent.be – www.mytox.be – <https://mytoxsouth.org>

Funded by Ghent University & VLIR-UOS

