

SPONSORED BY THE



Federal Ministry
of Education
and Research



Transdisciplinary Workshop

Vertical Farming and Innovative Urban Agriculture

of the Arab-German Young Academy
of Sciences and Humanities (AGYA)
& Hamburger Klimaschutzstiftung

Hybrid Event

04 – 06 July 2022, Hamburg, Germany



[agya.info](https://www.agya.info)

In cooperation with



**Hamburger
Klimaschutzstiftung**
für Bildung und Nachhaltigkeit

The Workshop is a project of
AGYA Alumnae Henda Mahmoudi and
Salma Balazadeh in cooperation with
AGYA Members Sonja Buxbaum-Conradi
and Nageh Allam.

PROGRAMME

All times correspond to Central European Summer Time (CEST).
In regard to Covid-19 measures, we recommend wearing a medical mask.

Sunday, 3 July 2022

Arrival day
Holiday Inn Hamburg, City Nord, Kapstadtring 2a, 22297 Hamburg

19:00 Get-Together Dinner at Restaurant Pepe Nero, Hindenburgstraße 54a, 22297 Hamburg

Monday, 4 July 2022

08:45 Meeting in the Hotel Lobby and Transfer to Venue
Venue: Gut Karlshöhe, Karlshöhe 60D, 22175 Hamburg

10:00 – 10:30 **Opening Ceremony with Welcome Addresses**

AGYA Alumna Henda Mahmoudi
International Center for Biosaline Agriculture, Dubai, UAE
Heide Pusch
Hamburger Klimaschutzstiftung, Germany

10:30 – 11:00 Coffee Break

11:00 – 12:30 Panel Session 1

Food Security and Global Challenges

Chair: AGYA Alumnus Ahmed Debez
Centre de Biotechnologie de Borj Cedria (CBBC), Tunis, Tunisia

Causes and Effects: From Ecosystem Service to Relaxation Experiments and Stress Adjustment in Chenopodium Quinoa

Hans-Werner Koyro
University of Giessen, Germany

Agripreneurship and Innovative Ideas:

How to Start Agricultural Projects and Contribute to Food Security

AGYA Alumna Henda Mahmoudi
International Center for Biosaline Agriculture (ICBA), Dubai, UAE

Empowering Small-Scale Farmers for Sustainable Food Production

Ghazi Jawad Al Jabri
International Center for Biosaline Agriculture (ICBA), Dubai, UAE

12:30 – 13:30 Lunch

13:30 – 15:30 Panel session 2

Success Stories from the Field

Chair: AGYA Alumnus Younis Baqi
Sultan Qaboos University, Muscat, Oman

Success Stories from Young Researchers

Rami Hamza
Start-up Creator and Pioneer Farmer, Tunis, Tunisia

UAE Farmer Success Story from the Field

Amna Aljanahi
Zayed University, Dubai, UAE

Start-ups' Success Stories in Tunisia

Soumaya Boudagga
University of Tunis El-Manar, Tunisia

Initiatives of Women Agricultural Start-ups in Egypt

Sherine Mansoor
Desert Research Center (DRC), Cairo, Egypt

15:30 – 16:30 **World Seminar Café**
Sustainable Intensification in Agriculture as a Factor of Achieving Food Security

Facilitated by:
AGYA Alumnus Ahmad Sakhrieh
American University of Ras Al Khaimah, UAE
AGYA Alumnus Tobias Redlich
Helmut Schmidt University, Hamburg, Germany
AGYA Alumnus Ahmed Debez
CBBC, Tunis, Tunisia
Ghazi Jawad Al Jabri
ICBA, Dubai, UAE

16:30 Transfer to Hotel

18:30 Meeting in the Hotel Lobby and Transfer to Restaurant

19:00 – 21:00 Dinner at Restaurant Beiti, Alsterdorfer Str. 76, 22299 Hamburg

Tuesday, 5 July 2022

08:45 Meeting in the Hotel Lobby and Transfer to Venue
Venue: Gut Karlshöhe, Karlshöhe 60D, 22175 Hamburg

10:00 – 11:00 **Some Approaches to Improve Agricultural Yields and Create new Productive Systems for Poor-resources Countries**

Chedly Abdelly
The National Agency for the Advancement of Scientific Research (ANPR), Tunis, Tunisia

11:00 – 11:30 Coffee Break

11:30 – 12:30 **Vertical Farming – A Future Concept in Food Production?**

Sebastian Eichelsbacher
Technical University of Munich, Germany

12:30 – 13:30 **Vertical Farming – Smart Production of Plant Raw Materials**

Sabine Wittmann
University of Applied Sciences Weihenstephan-Triesdorf, Germany

13:30 – 14:30 Lunch

14:30 – 15:30 **Presentation of prototype**
Building your own Vertical Farm: Potentials of DIY Solutions for Private and None-commercial Use

Gaia Di Martino, Svenja Zadow & Sebastian Graber
Helmut Schmidt University, Hamburg, Germany

15:30 – 17:30 **Tour at Gut Karlshöhe**
Visit of Vertical Farms and Introduction to the Farm Robot

17:30 Transfer to Hotel

Wednesday, 6 July 2022

- 08:45 **Meeting in the Hotel Lobby and Transfer to Venue**
Venue: Gut Karlshöhe, Karlshöhe 60D, 22175 Hamburg
- 10:00 – 11:00 **Vertical Farming in Sudan: Prospects and Challenges**
AGYA Member Tilal Abdelhalim
Biotechnology and Biosafety Research Center, Khartoum, Sudan
AGYA Member Amro Babiker Eltayeb
King Saud University, Riyadh, Saudi Arabia
- 11:00 – 11:30 **Coffee Break**
- 11:30 – 12:15 **Sustainable Vertical Farming: Opportunities and Challenges**
AGYA Alumnus Ahmad Sakhrieh
American University of Ras Al-Khaima, UAE
- 12:15 – 13:00 **Importance of Vertical Farming in Marginal Environment, Specifically Desert Areas like UAE**
Asma Ali Juma Alsuwaidi
The Executive Office of Her Highness Sheikha Jawaher Bint Muhammad Al Qasimi Thati Academy, Sharjah, UAE
- 13:00 – 14:00 **Lunch**
- 14:00 – 14:45 **Importance of the Innovative Agricultural Tools for the Tunisian Farmers**
Marwa Hassine
National Agronomic Institute of Tunisia, Tunis, Tunisia
- 14:45 – 15:30 **Conclusion and Discussion of Policy Recommendations**
Moderated by AGYA Alumna Henda Mahmoudi
ICBA, Dubai, UAE
Andje Stamer
Hamburger Klimaschutzstiftung, Germany
- 15:30 **Transfer to City Center**
- 16:30 – 18:30 **Scientific Tour through Hamburg**
- 18:30 **Dinner at Restaurant Panthera Rodizio Hamburg Hafen, Ditmar-Koel-Straße 3, 20459 Hamburg**

Thursday, 7 July 2022

Departure Day

Hotel

Holiday Inn Hamburg - City Nord
Kapstadtring 2a
22297 Hamburg, Germany

Venue

Gut Karlshöhe
Karlshöhe 60D
22175 Hamburg

Online Participation

Kindly contact Dominik Ceballos Contreras at:
ceballos-contreras(at)bbaw.de
to receive further details on the online participation.

Photography during the AGYA Workshop

Kindly note that we will take photos during the workshop. The images and any reproductions or adaptations can be used in print and digital media formats including print publications, websites, e-marketing, posters, advertising, film, and social media. If you do not wish to be photographed, please inform the event organisers.