



Adobe Stock/Meoww, Generative AI



Adobe Stock/Dmitry, generative AI

### BMFZ MEETING 2024

# Climate Change: Consequences and Possible Solutions

## November 25/26, 2024

Climate change is one if not the grand challenge of the 21st century. Consequently, extreme weather events, such as droughts, wildfires, and extreme rainfall, are becoming more severe and more frequent than scientists previously expected. This presents a major challenge to crop production, food security, and biodiversity, threatening the foundations of human civilization and the environment. During this conference we will not only discuss biological solutions to mitigate climate change but also consequences of climate change for our health and daily life.

Program Committee: Jörg Distler, Lutz Schmitt, Andreas Weber, Andreas Reichert | Organization: Cornelia Höner



HHU/Sigurd Steimplitz

#### Event location

Haus der Universität  
Schadowplatz 14  
40212 Düsseldorf

#### Registration

[bmfz.hhu.de/meeting2024](https://bmfz.hhu.de/meeting2024)  
(no registration fee)



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Biologisch-Medizinisches Forschungszentrum (BMFZ)  
(Centre for Biological and Medical Research)  
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Ministry of Culture and Science  
of the State  
North Rhine-Westphalia



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# NOVEMBER 25, 2024

**13:00** Welcome

Lutz Schmitt, Andreas Weber, *Düsseldorf*

## SESSION I — Chair: Lutz Schmitt, Düsseldorf

**13:15** Forests and climate change mitigation – challenges, opportunities, and risks

Henrik Hartmann, *Institute for Forest Protection Julius Kühn Institute (JKI) – Federal Research Centre for Cultivated Plants, Quedlinburg*

**14:00** The importance of agricultural soils for CO<sub>2</sub> reduction

Nina Siebers, *Institute of Bio- and Geosciences (IBG) Research Center Jülich*

**14:45** Coffee Break

## SESSION II — Chair: Andreas Weber, Düsseldorf

**15:15** How bioeconomy contributes to achieving the sustainable development goals

Dirk Holtmann, *Karlsruhe Institute of Technology (KIT) Institute for Bio- and Food Technology Electrobiotechnology*

**16:00** Carbon sequestration and resource conservation in construction: health implications and future directions

Elham Fini, *Global Institute of Sustainability and Innovation, School of Sustainable Engineering and the Built Environment, Arizona State University, USA*

**16:45** Carbon sequestration towards plant biomass

Markus Pauly, *Institute for Plant Cell Biology and Biotechnology, HHU Düsseldorf*

**17:00** Public Lecture

Die Revolution aus dem Mikrokosmos: Wie wir uns eine nachhaltige Welt brauen

Martin Reich, *Öko-Progressives Netzwerk, Gatersleben*

**19:00** Speakers' Dinner



# Program

# NOVEMBER 26, 2024

## SESSION III — Chair: Jörg Distler, Düsseldorf

**09:15** The scary but still fixable threat of climate change

Camilo and Asryelle Mora, *Department of Geography and Environment, Manoa, Hawaii, USA*

## AWARD CEREMONIES 2024

**10:05** Ulrich Hadding Award  
Egon Nettersheim Award

Guido Reifenberger, *Vice Dean of the Medical Faculty, Düsseldorf*

**10:45** Coffee Break

## SESSION IV — Chair: Barbara Hoffmann, Düsseldorf

**11:15** Heatwaves and heartbeats: the health risks of climate change

Ana Zenclussen, *Helmholtz Centre for Environmental Research, Environmental Immunology, Leipzig*

## KEYNOTE LECTURE

**12:00** Climate crisis paralysis: accelerating global action for health resilience in a changing world

Claudia Traidl-Hoffmann, *Environmental Medicine, Augsburg*

**12:50** Closing remarks

Jörg Distler, Lutz Schmitt, *Düsseldorf*

**13:00** Lunch

→ Please register by November 20, 2024: [bmfz.hhu.de/meeting2024](https://bmfz.hhu.de/meeting2024)

