





# TRENDS IN NUTRITION EPIDEMIOLOGY 22 – 26 August 2022

### **Course Lecturers**

ID	<b>Prof Dr Ina Danquah</b> Climate Change, Nutrition and Health, Heidelberg Institute of Global Health (HIGH)	AH	<b>PD Dr Antje Hebestreit</b> Epidemiological Methods & Etiological Research, Leibniz Institute for Prevention Research and Epidemiology (BIPS)
UN	<b>Prof Ute Nöthlings</b> Nutrition Epidemiology, University of Bonn	MBS	<b>Prof Matthias B Schulze</b> Molecular Epidemiology, German Institute of Human Nutrition Potsdam-Rehbruecke (DIfE)
GМ	<b>Prof Gertraud Maskarinec</b> University of Hawaii Cancer Center, University of Hawaii at Mãnoa	мн	<b>Prof Michelle Holdsworth</b> Institute of Research for Sustainable Development (IRD)
BR	<b>Prof Britta Renner</b> Psychological Assessment and Health Psychology, University of Konstanz	НОК	<b>Dr Hibbah Osei-Kwasi</b> Clinical Sciences and Nutrition, University of Chester
SaS	<b>Dr Sabrina Schlesinger</b> Institute for Biometry and Epidemiology, German Diabetes Center (DDZ)	LS	<b>PD Dr Lukas Schwingshackl</b> Institute for Evidence in Medicine (Cochrane Germany), University Hospital Freiburg
ТК	<b>Prof Dr Tilmann Kühn</b> School of Biological Sciences, Queen's University Belfast	TB	<b>Prof Till Bärnighausen</b> Quasi-Experimental Study Designs, Heidelberg Institute of Global Health (HIGH)

## Representatives of Nutrition Research Clusters

UN	<b>Prof Ute Nöthlings</b> Diet Body Brain – Cluster Bonn	MBS	<b>Prof Matthias B Schulze</b> NutriAct – Cluster Potsdam
ВН	<b>Dr Betty Hebecker</b> NutriCard – Cluster Jena	JM	<b>Dr Juliane Menzel</b> Novel studies on novel foods Berlin







## Objectives of the course and the science fair

The **course** "**Nutrition Epidemiology**" aims to provide participants with basic understanding of nutrition epidemiology with a focus on low- and middle-income countries.

More specifically, this course will:

- Familiarize participants with common and novel dietary assessment methods,
- Guide participants on the modelling of dietary behaviour,
- Introduce the Dietary Determinants of Nutrition and Eating (DONE) framework,
- Present concepts for evidence-based public health nutrition, and
- Give an overview of recent study designs to investigate diet-diseaserelationships.

The science fair "Trends in Nutrition Research" aims to provide participants with an overview of recent trends in the field of basic and applied nutrition research in Germany.

More specifically, this science fair will:

- Show key trends and opportunities in nutrition science,
- Familiarize participants with the current scope and activities in Germany, and
- Establish contacts and potential partnerships between participants, stakeholders and researchers.

#### Assessment of the course

The course will be assessed as:

40% oral presentation / participation

60% individual and group assignments in practical sessions / group work







Monday, 22 August 2022			
	ID / UN /AH		
Day 1	Introduction and Dietary Assessment Methods		
	Lecture, Group Work		
		I	
09:00 - 10:30	Nutrition Epidemiology: Introduction	ID	
10:30 - 11:00	Coffee Break		
11:00 – 12:30	Science Fair: Diet Body Brain – Nutrition Research Cluster	UN	
12:30 - 13.30	Lunch		
13:30 - 15:00	Dietary Assessment Methods, Focusing on Digital Devices	UN	
15:00 - 15:30	Coffee Break		
15:30 – 17:00	Dietary Assessment Methods, Focusing on Children	AH	
Session Objec	ctives		
<ul> <li>Introducing essential concepts of nutrition epidemiology in public health</li> <li>Familiarizing participants with common and novel dietary assessment methods</li> <li>Science fair: Introduction to Nutrition Research Cluster #1</li> <li>Networking</li> </ul>			
Key Readings			
• The list of key readings and further recommended literature will be provided closer to the course begin.			

• http://www.diet-body-brain.de/home.html







Tuesday, 23 August 2022			
	MBS / ID / SK		
Day 2	Modelling Nutritional Exposure		
	Lecture, Group Work, Science Fair		
09:00 - 10:30	Dietary Pattern Analysis and Construction	MBS	
10:30 - 11:00	Coffee Break		
11:00 – 12:30	Science fair: NutriAct – Nutrition Research Cluster	MBS	
12:30 - 13:30	Lunch		
13:30 - 15:00	Sustainable Dietary Patterns	ID	
15:00 – 15:30	Coffee Break		
15:30 – 17:00	A priori dietary patterns and disease	GM	
Session Object	ctives		
<ul> <li>Modelling dietary habits as exposure</li> <li>Derivation of complex dietary patterns</li> <li>Science fair: Introduction to Nutrition Research Cluster #2</li> <li>Networking</li> </ul>			
Key Readings			
<ul> <li>The list of key readings and further recommended literature will be provided closer to the course begin.</li> <li>www.nutriact.de</li> </ul>			







Wednesday, 24 August 2022			
	BR / BH / MH / HOK		
Day 3	Determinants of Nutrition and Eating (DONE)		
	Lecture, Group Work, Science Fair		
09:00 - 10:30	"Why we eat what we eat: Implicit and explicit influences"	BR	
10:30 - 11:00	Coffee Break		
11:00 – 12:30	Science fair: NutriCARD – Nutrition Research Cluster	BH	
12:30 - 13:30	Lunch		
13:30 - 15:00	Analysing food systems as determinants of diets	MH	
15:00 - 15:30	Coffee Break		
15:30 – 17:00	Mixed methods to identify determinants of diets	HOK	
Session Object	ctives		
<ul> <li>Introduction to quantitative, qualitative and mixed methods for the identification of dietary determinants</li> <li>Science fair: Introduction to Nutrition Research Cluster #3</li> <li>Networking</li> </ul>			
Key Readings			
<ul> <li>The list of key readings and further recommended literature will be provided closer to the course begin.</li> <li>https://www.nutricard.de/</li> </ul>			







Thursday, 25 August 2022			
	SaS / JM / LS		
Day 4	Evidence-based public health nutrition		
	Lecture, Group Work, Science Fair		
09:00 – 10:30	Systematic reviews and meta-analysis	SaS	
10:30 - 11:00	Coffee Break		
11:00 – 12:30	Science Fair: Novel studies on novel foods	M	
12:30 - 13:30	Lunch		
13:30 – 15:00	Improving the trustworthiness of findings from nutrition evidence syntheses: risk of bias and rating of uncertainty	LS	
15:00 – 15:30	Coffee Break		
15:30 – open	15:30 – open Tour through the historic city of Heidelberg and joined dinner		
Session Objecti	ves		
<ul> <li>Present concepts and methods for evidence-based public health nutrition</li> <li>Science fair: Introduction to Nutrition Research Cluster #4</li> <li>Networking</li> </ul>			
Key Readings			
<ul> <li>The list of key readings and further recommended literature will be provided closer to the course begin.</li> <li>https://www.bfr.bund.de/de/edkar.html</li> </ul>			







Friday, 26 August 2022			
	TK / TB / ID		
Day 5	Investigating diet-disease-relationships		
	Lecture, Group Work, Feedback		
09:00 - 10:30	Big data in nutrition epidemiology	TK	
10:30 - 11:00	Coffee Break		
11:00 - 12:30	Quasi-experimental study designs for causal inference	TB	
12:30 - 13:30	Lunch		
13:30 - 15:00	Group presentations: Your project	ID	
15:00 - 15:30	Coffee Break		
15:30 – 17:00	Wrap-up and feedback session	ID	
Session Objectives			
<ul> <li>Give an overview of recent study designs to investigate diet-disease-relationships</li> <li>Advance individual projects through feedback by the group</li> <li>Course oveluation</li> </ul>			

Course evaluation