

# Leibniz Competition 2021 – Funded projects



## Leibniz Programme for Women Professors

### **Dehumanization Online: Measurements and Consequences**

Institute	Leibniz Institute for the Social Sciences (GESIS)
Section	B
Cooperating University	RWTH Aachen
Project leader	Claudia Wagner

### **Integrated cropping systems analysis: methods and models for climate risk and adaptation assessments**

Institute	Leibniz Centre for Agricultural Landscape Research (ZALF)
Section	E
Cooperating University	BTU Cottbus-Senftenberg
Project leader	Heidi Webber

### **Navigating the digital everyday life: Elderly participants' use of mundane technologies in and for social interaction**

Institute	Leibniz Institute for the German Language (IDS)
Section	A
Cooperating University	Universität Mannheim
Project leader	Florence Oloff

### **ImmunoPROteasomes in LUNG health and disease**

Institute	Research Center Borstel - Leibniz Lung Center (FZB)
Section	C
Cooperating University	Christian-Albrechts-Universität zu Kiel
Project leader	Silke Meiners

### **A Framework for Knowledge Graphs based on Semantic Integration, Representation, and Curation of Scientific Data to enable Trustable and Interpretable Knowledge Exploration and Discovery**

Institute	TIB – Leibniz Information Centre for Science and Technology
Section	D
Cooperating University	Leibniz Universität Hannover
Project leader	Maria Vidal

### **Leibniz Professorship for Empirical Environmental Economics at the University of Mannheim**

Institute	ZEW – Leibniz Centre for European Economic Research
Section	B
Cooperating University	Universität Mannheim
Project leader	Katherine von Graevenitz

## **Behavioural Insights Research Center on Preventive Health**

Institute	BNITM - Bernhard Nocht Institute for Tropical Medicine
Section	C
Cooperating University	Universität Erfurt
Leitung	Cornelia Betsch

## **Leibniz Transfer**

### **Economic Insights: Transfer and Capacity Building (BSE Insights)**

Institute	WZB Berlin Social Science Center
Section	B
Cooperating partners	DIW Berlin – Deutsches Institut für Wirtschaftsforschung; European School of Management and Technology (ESMT), Berlin; Freie Universität Berlin; Hertie School, Berlin; Humboldt-Universität zu Berlin; Technische Universität Berlin; Universität Potsdam; University College London
Project leader	Dorothea Kübler

### **Digital Materialities. Virtual and analogue forms of exhibiting museum artefacts**

Institute	German Maritime Museum – Leibniz Institute for Maritime History (DSM)
Section	A
Cooperating partners	Universität Bremen; Leibniz-Institut für Wissensmedien (IWM)
Project leader	Ruth Schilling

### **Selective depletion of plasma cells secreting pathogenic autoantibodies in chronic autoimmune diseases - a potentially curative therapeutic approach**

Institute	German Rheumatism Research Centre Berlin (DRFZ)
Section	C
Cooperating partners	Charité – Universitätsmedizin Berlin; Leibniz-Forschungsinstitut für Molekulare Pharmakologie (FMP)
Project leader	Falk Hiepe

## **Leibniz Junior Research Groups**

### **Cosmic Choreographies: Studying Systems of Satellite Galaxies and Their Phase-Space Correlations**

Institute	Leibniz Institute for Astrophysics Potsdam (AIP)
Section	D
Project leader	Marcel Pawlowski

### **Hybrid swarm evolution of native and invasive Phoxinus spp. to the river Sieg, Germany**

Institute	Zoological Research Museum Alexander Koenig - Leibniz Institute for Animal Biodiversity (ZFMK)
Section	C
Project leader	Madlen Stange

## **2D Heterostructures for fermionic and bosonic topological phases**

Institute	Leibniz Institute for Solid State and Materials Research Dresden (IFW)
Section	D
Project leader	Louis Veyrat

**Broad Adaptations to Brain Connectivity due to Maternal Influences on Neurocircuits caused by Diet**

Institute	German Institute of Human Nutrition Potsdam-Rehbruecke (DIfE)
Section	C
Project leader	Rachel Lippert

**Neuropathology of Lassa fever NEULA**

Institute	Bernhard Nocht Institute for Tropical Medicine (BNITM)
Section	C
Project leader	Till Omansen

**Probabilistic Methods for Dynamic Communication Networks**

Institute	Weierstrass Institute for Applied Analysis and Stochastics (WIAS)
Section	D
Project leader	Benedikt Jahnel

**Leibniz Collaborative Excellence**

**Ion Selectivity and Conduction Mechanism of Cation Channels Investigated by Molecular Dynamics Simulations and Solid-State NMR Spectroscopy**

Institute	Leibniz-Forschungsinstitut für Molekulare Pharmakologie (FMP)
Section	C
Cooperating partners	Max-Planck-Institut für biophysikalische Chemie, Göttingen
Project leader	Adam Lange

**Supporting Climate Protection - From Renewable Hydrogen and Aerobic CO<sub>2</sub> to Methanol**

Institute	Leibniz Institute for Catalysis e. V. at the University of Rostock (LIKAT)
Section	D
Cooperating partners	Leibniz-Institut für Plasmaforschung und Technologie (INP); Leibniz-Institut für Werkstofforientierte Technologien (IWT); Hochschule Stralsund; APEX Energy Teterow GmbH
Project leader	Matthias Beller

**Light-driven molecular machines in active materials**

Institute	INM – Leibniz Institute for New Materials
Section	D

Cooperating partners	DWI - Leibniz-Institut für Interaktive Materialien; University of Strasbourg
Project leader	Aránzazu del Campo Bécares

**Defect-engineering in graphene via focused ion beam for tailored van der Waals epitaxy of h-BN**

Institute	Paul Drude Institute for Solid State Electronics (PDI)
Section	D
Cooperating partners	Ferdinand-Braun-Institut, Leibniz-Institut für Höchstfrequenztechnik; Helmholtz-Zentrum Dresden-Rossendorf; Physikalisch-Technische Bundesanstalt
Project leader	J. Marcelo Lopes

**Beyond Species: Predicting biodiversity change by integrating genetic diversity into ecological niche models**

Institute	Museum für Naturkunde - Leibniz Institute for Evolution and Biodiversity Science (MfN)
Section	C
Cooperating partners	Humboldt-Universität zu Berlin; Universität Potsdam; Istanbul Technical University; Yerevan State University; Tel-Aviv University
Project leader	Frieder Mayer

**Digitale Kartenwerkstatt Altes Reich: historische Räume neu modellieren und visualisieren**

Institute	Leibniz Institute of European History Mainz (IEG)
Section	A
Cooperating partners	Leibniz-Institut für Länderkunde (IfL); Leibniz-Institut für Ost- und Südosteuropaforschung (IOS); Johannes Gutenberg-Universität Mainz; École des hautes études en sciences sociales
Project leader	Johannes Paulmann

**Predicting the future from signatures of the past: using living sediment archives and ancient DNA to understand responses of marine primary producers to environmental changes**

Institute	Leibniz Institute for Baltic Sea Research (IOW)
Section	E
Cooperating partners	Senckenberg Gesellschaft für Naturforschung (SGN); Universität Konstanz; Universität Hamburg; Lund University; University of Gothenburg; Michigan State University; Södertörn University; University of Helsinki; Helsinki Commission HELCOM
Project leader	Anke Kremp

**China in Africa: Exploring the Economic and Social Consequences**

Institute	Kiel Institute for the World Economy (IfW)
Section	B
Cooperating partners	Georg-August-Universität Göttingen; University of Hong Kong; Addis Ababa University; University of Ghana; Zambia Institute for Policy Analysis and Research (ZIPAR); Ahmadu Bello University, Zaria
Project leader	Rainer Thiele

**Functional architecture of the nucleus of malaria parasites**

Institute	Bernhard Nocht Institute for Tropical Medicine (BNITM)
Section	C
Cooperating partners	Radboud University Nijmegen
Project leader	Tobias Spielmann

**Distributional effects of macroeconomic policies in Europe**

Institute	German Institute for Economic Research Berlin (DIW Berlin)
Section	B
Cooperating partners	Leibniz-Institut für Wirtschaftsforschung Halle (IWH); Rheinische Friedrich-Wilhelms-Universität Bonn; Eberhard Karls Universität Tübingen
Project leader	Alexander Kriwoluzky

**Learning Progression Analytics - Analyzing Learning for Individualized Competence development in mathematics and science Education**

Institute	Leibniz Institute for Science and Mathematics Education at the University of Kiel (IPN)
Section	A
Cooperating partners	Leibniz-Institut für Wissensmedien (IWM); DIPF   Leibniz-Institut für Bildungsforschung und Bildungsinformation; Ruhr-Universität Bochum; Carnegie Mellon University; University College London
Project leader	Knut Neumann