

## Leibniz Transfer

### Micro-scale resonators for nuclear and electron spin resonance spectroscopies

Institute	Leibniz Institute for Solid State and Materials Research Dresden (IFW)
Section	D
Cooperating partners	NMR Service GmbH
Project leader	Prof. Dr. Bernd Büchner

### Heritage Conservation Center Ruhr - Transferring knowledge about historic material's complexity for a sustainable future

Institute	Deutsches Bergbau-Museum Bochum – Leibniz Research Museum for Geo-resources (DBM)
Section	A
Cooperating partners	Technische Hochschule Georg Agricola; Stiftung Zollverein
Project leader	Prof. Dr. Stefan Brüggerhoff

### Transferring the Nuremberg topographical and temporal model into the public

Institute	FIZ Karlsruhe – Leibniz Institute for Information Infrastructure
Section	D
Cooperating partners	Universität Greifswald
Project leader	Matthias Razum

## Leibniz Junior Research Groups

### Urban human-nature resonance for sustainability transformation

Institute	Leibniz Institute of Ecological Urban and Regional Development (IOER)
Section	B
Candidate	Dr. Martina Artmann

### Contentious Mobilities: rethinking mobility transitions through a decolonial lens

Institute	Leibniz Institute for Regional Geography (IfL)
Section	B
Candidate	Dr. Wladimir Sgibnev

### Numerics for innovative semiconductor devices

Institute	Weierstrass Institute for Applied Analysis and Stochastics (WIAS)
Section	D
Candidate	Dr. Patricio Farrell

## Leibniz Collaborative Excellence

### A risk index for health effects of mineral dust and associated microbes

Institute	Leibniz Institute for Tropospheric Research (TROPOS)
Section	E
Cooperating partners	Leibniz-Institut DSMZ-Deutsche Sammlung von Mikroorganismen und Zellkulturen GmbH; IUF – Leibniz-Institut für umweltmedizinische Forschung gGmbH; Forschungszentrum Borstel – Leibniz Lungenzentrum; University of Cape Verde
Project leader	Dr. Khanneh Wadinga Fomba

### FOur dimensional Research applying Modelling and Observations for the Sea and Atmosphere

Institute	Leibniz Institute of Atmospheric Physics at the Rostock University (IAP)
Section	D
Cooperating partners	Leibniz-Institut für Ostseeforschung Warnemünde; Tromsø University; Stockholm University; Utah State University Logan; Colorado Research Association, Boulder; Global Atmospheric Technologies and Science, Boulder
Project leader	Prof. Dr. Franz-Josef Lübken

### Language and social action across Europe: Rules and norms in informal interaction

Institute	Leibniz Institute for the German Language (IDS)
Section	A
Cooperating partners	University of California; University of Helsinki; University of Basel; University of Bydgoszcz
Project leader	Dr. Jörg Zinken

### The Short Life of Soviet Yiddish Literature

Institute	Leibniz Institute for Jewish History and Culture – Simon Dubnow (DI)
Section	A
Cooperating partners	Leibniz-Zentrum für Literatur- und Kulturforschung; Universität Regensburg; Leibniz-Institut für Geschichte und Kultur des östlichen Europa; Leibniz-Institut für Deutsche Sprache; European University at St. Petersburg
Project leader	Prof. Dr. Yfaat Weiss

### Contested Waterway. Governance and Ecology on the Lower Danube, 1800-2018

Institute	Leibniz Institute for East and Southeast European Studies (IOS)
Section	A
Cooperating partners	Leibniz-Institut für Geschichte und Kultur des östlichen Europa; Center for Advanced Study Sofia; New Europe College Bukarest; Central European History Budapest; Slovenian Academy of Sciences; Rmanian Academy of Science
Project leader	Dr. Luminita Gatejel

### **Design and Control of Patterned Large-Area Molecule-Surface Interfaces for Multiple-State Data Storage Technologies**

Institute	Leibniz Institute of Surface Engineering (IOM)
Section	D
Cooperating partners	TU Dresden
Project leader	Prof. Dr. Bernd Abel

### **Ex vivo expansion of functional human HSCs to improve therapies of age-associated diseases**

Institute	Leibniz Institute on Aging - Fritz Lipmann Institute (FLI)
Section	C
Cooperating partners	Universitätsklinikum Jena; Leibniz Institut für Polymerforschung; Deutsches Krebsforschungszentrum
Project leader	Prof. Dr. Claudia Waskow

### **Defective microtubuli in the pathogenesis of neurological phenotypes in patients with nucleotide excision repair (NER) syndromes**

Institute	IUF – Leibniz Research Institute for Environmental Medicine
Section	C
Cooperating partners	Heinrich-Heine-Universität Düsseldorf
Project leader	Prof. Dr. Jean Krutmann

### **Perceptions of Inequalities and Justice in Europe**

Institute	The Socio-Economic Panel (SOEP)
Section	B
Cooperating partners	Helmut-Schmidt-Universität Hamburg; Universität Konstanz; Universität Wien; Radboud University; New York University; Max-Planck-Institut für Sozialrecht und Sozialpolitik; Ludwig-Maximilians-Universität München
Project leader	Dr. Sandra Bohmann

### **Urban Authenticity: Creating, contesting, and visualizing the built heritage in European cities since the 1970s**

Institute	Leibniz Institute for Research on Society and Space (IRS)
Section	B
Cooperating partners	Zentrum für Zeithistorische Forschung Potsdam e.V.; Institut für Zeitgeschichte, München; Herder-Institut für historische Ostmitteleuropaforschung – Institut der Leibniz-Gemeinschaft; Brandenburgischer Museumsverband; Leibniz-Institut für Raumbezogene Sozialforschung
Project leader	Prof. Dr. Christoph Bernhardt

### **Regional Inequality in Germany: Assessment, Drivers and Consequences**

Institute	ZEW – Leibniz Centre for European Economic Research
Section	B
Cooperating partners	Deutsches Institut für Wirtschaftsforschung e.V.; Akademie für Raumforschung und Landesplanung; Universität Hamburg; Universität Bochum; University of Bristol

Project leader	Prof. Dr. Sebastian Siegloch
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### **Identification and modulation of new immune targets in juvenile idiopathic arthritis (JIA)**

Institute	German Rheumatism Research Centre Berlin (DRFZ)
Section	C
Cooperating partners	Charité - Universitätsmedizin Berlin; Fraunhofer Institute for Cell Therapy and Immunology
Project leader	Prof. Dr. Chiara Romagnani

### **Neurophysiological mechanisms of primate interactions in dynamic sensorimotor settings**

Institute	German Primate Center – Leibniz Institute for Primate Research (DPZ)
Section	C
Cooperating partners	European Neuroscience Institute; Universitätsmedizin Göttingen; Georg-August-Universität Göttingen; Max Planck Institute for Dynamics and Self Organization
Project leader	Prof. Dr. Stefan Treue

### **On-chip Laser-written Photonic Circuits for Classical and Quantum Applications**

Institute	Max-Born-Institute for Nonlinear Optics and Short Pulse Spectroscopy (MBI)
Section	D
Cooperating partners	Fraunhofer-Institut für Zuverlässigkeit und Mikrointegration; Humboldt Universität zu Berlin
Project leader	Dr. Alexandre Mermillod-Blondin

### **The Historicity of Democracy in the Arab and Muslim Worlds**

Institute	Leibniz-Zentrum Moderner Orient (ZMO)
Section	A
Cooperating partners	Leibniz-Zentrum für Zeithistorische Forschung Potsdam; Leibniz-Institut für Europäische Geschichte
Project leader	Dr. Nora Lafi

### **Multiscale Modeling and Engineering Simulation of Next Generation Multifunctional Microstructures for Handling Applications**

Institute	INM – Leibniz Institute for New Materials
Section	D
Cooperating partners	University of California Santa Barbara and Leibniz Chair at INM; Universität des Saarlandes; Harvard University; ESPCI Paris; Cambridge University
Project leader	Prof. Dr. Eduard Arzt

### **Digital Approaches for the Synthesis of Poorly Accessible Biodiversity Information**

Institute	Leibniz-Institute DSMZ – German Collection of Microorganisms and Cell Cultures
Section	C

Cooperating partners	Leibniz-Informationszentrum Technik und Naturwissenschaften Universitätsbibliothek; ZB MED Informationszentrum Lebenswissenschaften
Project leader	Prof. Dr. Jörg Overmann

### **Understanding the “Anthropocene”: human alteration of ecosystems in our deep history**

Institute	Römisch-Germanisches Zentralmuseum - Leibniz Research Institute for Archaeology (RGZM)
Section	A
Cooperating partners	Leiden University; Universität Mainz; Universität Potsdam; Landesamt für Denkmalpflege und Archäologie Sachsen-Anhalt, Landesmuseum für Vorgeschichte
Project leader	Prof. Dr. Sabine Gaudzinski-Windheuser

### **Calcium control of brain function: Role of the synaptic endoplasmic reticulum (ER) and its association with other membranes**

Institute	Leibniz-Forschungsinstitut für Molekulare Pharmakologie (FMP)
Section	C
Cooperating partners	Leibniz-Institut für Neurobiologie; Universität Mainz
Project leader	Prof. Dr. Volker Haucke

### **Digital Formative Assessment (DiFA) - Unfolding its full potential by combining psychometrics with learning analytics**

Institute	DIPF   Leibniz Institute for Research and Information in Education
Section	A
Cooperating partners	Leibniz-Institut für Bildungsverläufe e.V.; Goethe-Universität Frankfurt am Main
Project leader	Prof. Dr. Frank Goldhammer

### **Climate Enhanced Tomato breeding Capturing Heat-resilience Using integrative Phenotyping**

Institute	Leibniz Institute of Vegetable and Ornamental Crops (IGZ)
Section	E
Cooperating partners	Leibniz-Institut für Pflanzengenetik und Kulturpflanzenforschung; Leibniz-Institut für Pflanzenbiochemie
Project leader	Prof. Dr. Philip A. Wigge