

EU-funded Projects (2007 - 2013)

7th Framework Programme (incl. ERC) and Other Funding Lines

Collaborative Projects

Cooperation - ICT

1. **Cooperation - ICT: CHIMONO**, Nano Optics for Molecules on Chips (Prof. Arno Rauschenbeutel, 2008 -2011), JGU as partner
2. **Cooperation - ICT: SPARK II**, Spatial temporal patterns for action-oriented perception in roving robots II: an insect brain computational Model (Prof. Roland Strauss, 2008 – 2011), JGU as partner
3. **Cooperation - ICT: NAME-QUAM**, Nanodesigning of Atomic and MolEcular QuAntum Matter (Prof. Immanuel Bloch, 2009 – 2011), JGU as partner
4. **Cooperation - ICT: AQUTE**, Atomic Quantum Technologies Integrating Project (Prof. Ferdinand Schmidt-Kaler, 2010 - 2013), JGU as partner
5. **Cooperation - ICT: VERE**, Virtual Embodiment and Robotic ReEmbodiment (Prof. Thomas Metzinger, 2010 – 2015), JGU as partner
6. **Cooperation - ICT (FET Open): DIAMANT**, Diamond-Based atomic nano-technologies (Prof. Ferdinand Schmidt-Kaler, 2011 – 2013), JGU as partner

7. **Cooperation - ICT: MAGWIRE**, Magnetic Nanowires for High Density Nonvolatile Memories (Prof. Mathias Kläui, 2011 – 2013), JGU as partner
8. **Cooperation - ICT: EMICAB**, Embodied Motion Intelligence for Cognitive, Autonomous robots (Prof. Roland Strauss, 2011 – 2014), JGU as partner
9. **CIP - ICT-PSP: TISP**, Technology and Innovation for Smart Publishing (Prof. Christoph Bläsi, 2013 – 2015), JGU as partner
10. **COOP - ICT: SIQS**, Simulators and Interfaces with Quantum Systems (Prof. Ferdinand Schmidt-Kaler, 2013 – 2016), JGU as partner
11. **COOP - ICT-FET Proactive: MoQuas**, Molecular Quantum Systems (Prof. Mathias Kläui, 2013 – 2016), JGU as partner
12. **FET Open: EQuaM**, Emulators of Quantum Frustrated Magnetism (Prof. Ferdinand Schmidt-Kaler, 2013 – 2016), JGU as partner
13. **COOP - ICT-FET Proactive: PAMS**, Planar Atomic and Molecular Scale Devices (Prof. Angelika Kühnle, 2013 – 2017), JGU as partner
14. **COOP - ICT-FET-Xtrack: InSpin**, Insulator Spintronics (Prof. Mathias Kläui, 2014 – 2017), JGU as partner

Cooperation - NMP

15. **Cooperation - NMP: EMBEK1**, Development and analysis of polymer based multi-functional bactericidal materials (Prof. Hagen Thieme, 2008 – 2011), JGU / UMC as partner
16. **Cooperation - NMP: LEMSUPER**, Light element molecular superconductivity: an interdisciplinary approach (Prof. Claudia Felser, 2011 – 2014), JGU as partner
17. **Cooperation - NMP: IFOX**, Interfacing Oxides (Prof. Mathias Kläui, 2011 – 2015), JGU as partner

Cooperation - Health

18. **Cooperation - Health: GENINCA**, Mechanisms and markers of GENomic Instability in gastrointestinal pre-cancerous lesions and Cancer as targets for novel therapeutic and prevention strategies and for improved tumor diagnosis and monitoring (Prof. Markus Neurath, 2008 - 2010), JGU / UMC as project partner
19. **Cooperation - Health: PEPChipOmics**, High-Density Peptide Micro-Arrays and Parallel On-line Detection of Peptide-Ligand Interactions (Prof. Hansjörg Schild, 2008 – 2011), JGU / UMC as partner
20. **Cooperation - Health: IBDASE**, Mucosal protease and their inhibitors in inflammatory bowel disease: From etiopathogenetic insight to innovative therapy (Dr. Christoph Becker-Pauly, 2008 – 2011), JGU as partner
21. **Cooperation - Health: TREATRUSH**, Fighting blindness of Usher syndrome: diagnosis, pathogenesis and retinal treatment (Prof. Uwe Wolf- rum, 2010 – 2014), JGU as partner
22. **Cooperation - Health: SYSCILIA**, A systems biology approach to dissect cilia function and its disruption in human genetic disease (Prof. Uwe Wolfrum, 2010 – 2015), JGU as partner

Cooperation SSH

23. **Cooperation - SSH: ELDIA**, European Language Diversity for All (Prof. Anneli Sarhima, 2010 – 2013), JGU as coordinator

Capacities

24. **Capacities - Research Infrastructures: SYNTHESYS**, Synthesis of Systematic Resources (Prof. Joachim Burger, 2009 - 2013), JGU as partner

25. **Capacities - Research Infrastructures: HadronPhysics2**, Hadron Physics 2: Study of Strongly Interacting Matter Arends (Dr. Ralf Böhm, 2009 – 2011), JGU as partner
26. **Capacities - Research Infrastructures: ENSAR**, European Nuclear Science and Applications Research (Prof. Klaus Wendt, 2010 – 2014), JGU as partner
27. **Capacities – Research Infrastructures: AIDA**, Advanced European Infrastructures for Detectors and Accelerators (Prof. Stefan Tapprogge, 2011 – 2015), JGU as partner
28. **Capacities – Research Infrastructures: HadronPhysics3**, Study of Strongly interacting Matter (Dr. Ralf Böhm / Prof. Hans-Jürgen Arends, 2012 - 2014), JGU as partner
29. **Capacities – Research Infrastructures: EuCARD-2**, Enhanced European Coordination for Accelerator Research & Development (Prof. Kurt Aulenbacher, 2013 – 2017) JGU as partner
30. **Capacities - Science-In-Society: NERRI**, Neuro-Enhancement: Responsible Research and Innovation (Prof. Elisabeth Hildt, 2013 – 2016), JGU as partner

Innovative Medicines Initiative

31. **IMI: OrBiTo**, Oral Biopharmaceutical Tools (Prof. Peter Langguth, 2012 - 2017), JGU as partner

Marie Curie Actions

Initial Training Networks (ITN)

1. **ITN: BIOMINTEC**, Biomineralization: Understanding of basic mechanisms for the design of novel strategies in nanobiotechnology (Dr. Heinz C.

- Schröder, 2008-2012), JGU / UMC as coordinator (early termination of participation)
2. ITN: **LeChe**, Lactase persistence and the cultural history of Europe (Prof. Joachim Burger, 2008 – 2012), JGU as partner
 3. ITN: **TOPOMOD**, Sculpting the Earth's topography: insights from modelling deep-surface processes (Prof. Boris Kaus, 2011 – 2014), JGU as partner
 4. ITN: **FliACT**, Systems neuroscience of Drosophila: from genes to circuits to behaviour (Prof. Roland Strauss, 2012 – 2015), JGU as partner
 5. ITN: **BEAN**, Bridging the European and Anatolian Neolithic: demography, migration, and lifestyle at the advent of civilisation (Prof. Joachim Burger, 2012 – 2016), JGU as coordinator
 6. ITN: **ACRITAS**, Actuation and characterisation at the single bond limit (Prof. Angelika Kühnle, 2012 – 2016), JGU as partner
 7. ITN: **TRACE'N'TREAT**, Molecular technology for nuclear imaging and radionuclide therapy (Prof. Frank Rösch, 2012 – 2016), JGU as partner
 8. ITN: **Qtea**, Quantum sensor technologies and applications (Prof. Patrick Windpassinger, 2013 – 2016), JGU as partner
 9. ITN: **ARAMACC**, Annually-resolved archives of marine climate change - development of molluscan sclerochronology for marine environmental monitoring and climatology (Prof. Bernd Reinhard Schöne, 2013 – 2017), JGU as partner
 10. ITN: **WALL**, Controlling domain wall dynamics for functional devices (Prof. Mathias Kläui, 2013 – 2017), JGU as partner
 11. ITN: **VERTIGO**, Volcanic ash: field, laboratory and numerical investigations of processes during its lifecycle (Prof. Jonathan Castro, 2014 – 2017), JGU as partner

Innovative Research and Staff Exchange Scheme (IRSES)

12. **IRSES: CUTE**, Crystalline Undulator: Theory and Experiment (Dr. Werner Lauth, 2011 – 2015), JGU as partner

Individual Fellowships (IF)

13. **IF: ADDRESSING**, Ultracold quantum gases in optical lattices with single site addressability (Dr. Jacob Friis Sherson / Prof. Stefan Kuhr, 2008 – 2010), JGU as coordinator
14. **IF: CIKME**, Circulating Knowledge, Making Europe. Cultural and scientific communication between Rome and the Holy Roman Empire during the Thirty Years War (Dr. Sabina Brevaglieri / Prof. Matthias Schnettger, 2011 – 2013), JGU as coordinator
15. **IF: Hyp BETA DEC**, Standard and non-standard hyperon beta decays (Dr. Jorge Martin Camalich / Prof. Mark Vanderhaeghen, 2013 – 2016), JGU as coordinator
16. **IF: BESIII-XYZ**, Understanding the Nature of Exotic Hadrons – Charmonium Spectroscopy at BESIII (Dr. Zhiqing Liu / Prof. Achim G. Denig, 2014 – 2016), JGU as coordinator

Researchers Night

17. **Researchers Night: HACS**, Hot and Cool Science-Researchers night 2007 in Mainz (Prof. Wolfgang Tremel), JGU as coordinator

Career Integration Grants

18. **Career Integration Grant: MULTILEX**, Multilingual Lexicon Extraction from Comparable Corpora (Prof. Silvia Hansen-Schirra, 2014 – 2018), JGU as coordinator
19. **Career Integration Grant: SupraBioMat**, Supramolecular Biomedical Materials (Prof. Pol Besenius, 2015 – 2016), JGU as coordinator

ERC Grants

Starting Grants (StG)

1. **StG: MASPIC**, Spin Currents in Magnetic Nanostructures (Prof. Mathias Kläui, 2011 – 2014), JGU as coordinator
2. **StG: ADNABIOARC**, From the earliest modern humans to the onset of farming (45,000-4,500 BP): the role of climate, life-style, health, migration and selection in shaping European population history (Prof. Joachim Burger, 2011 – 2014), JGU as partner
3. **StG: SingleSens**, Single Molecules as Sensors (Prof. Carsten Sönnichsen, 2011 – 2015), JGU as coordinator
4. **StG: MODEL**, Mechanics of Deformation of the Earth's Lithosphere (Prof. Boris Kaus, 2011 – 2015), JGU as coordinator
5. **StG: HYQS**, Hybrid atom-ion Quantum Systems (Dr. Rene Gerritsma, 2013 – 2018), JGU as coordinator (-2015)

Advanced Grants

6. **AdG: ILM**, Islamic Law Materialised (Prof. Johannes Pahlitzsch, 2011 – 2013), JGU as partner
7. **AdG: EFT4LHC**, Effective Field Theory for the Large Hadron Collider (Prof. Matthias Neubert, 2012 – 2016), JGU as coordinator
8. **AdG: IDEA Heusler!**, Inverse Design on an Atomic scale: Multifunctional Heusler compounds (Prof. Claudia Felser, 2012 – 2017), JGU as partner
9. **AdG: CodeX**, Decoding Domesticated DNA in Archaeological Bone and Manuscripts (Prof. Joachim Burger, 2012 – 2016), JGU as partner
10. **AdG: LiverFibrosisImaging**, Quantitative Imaging of Liver Fibrosis and Fibrogenesis (Prof. Tobias Ross / Prof. Frank Rösch, 2012 – 2017), JGU as partner

11. **AdG: EXCATRO**, In-situ experiments on the chemical composition of high altitude aerosols and clouds in the tropical upper troposphere and lower stratosphere (Prof. Stephan Borrmann, 2013 – 2018), JGU as coordinator

Synergy Grants

12. **ERC Syn: SC2**, Spin-charge conversion and spin caloritronics at hybrid organic-inorganic interfaces (Prof. Jairo Sinova, 2014 – 2020), JGU as partner

Other EU Programmes (selection)

Long Life Learning / ERASMUS

1. **LLL – Grundtvig: INtheMIC**, Internationalisation and Mobility in the students Curricula (Prof. Regine Egetenmeyer, 2010 – 2012), JGU as Partner
2. **LLP – Erasmus: MERGE**, Mobility and Employability research for Generation Erasmus (Dr. Ala Al-Hamaraneh, 2011 – 2014), JGU as partner
3. **LLP – Erasmus: EGPS**, European graduate Placement Scheme (Dr. Sascha Hofmann, 2012 – 2015), JGU as partner
4. **LLP – Jean Monnet: EXT-POL**, The EU and its external policy, with emphasis on EU-US and EU-BRICS relations (Prof. Arne Niemann, 2012 – 2016), JGU as partner
5. **LLP – GRUNDTVIG: FEFI**, Formal Education for Female Inmates (Dr. Gisela Zwigart-Hayer, 2013 – 2015), JGU as partner
6. **LLP – Jean Monnet: EURUTN**, EU-Russia relations: developing a transnational perspective (Prof. Arne Niemann, 2013 – 2015), JGU as partner
7. **ERASMUS Intensive Programme: Media&TV**, Media & TV student's training (Prof. Karl N. Renner, 2013), JGU as coordinator

HERA

8. **HERA: MusMig**, Music Migrations in the Early Modern Age: The Meeting of the European East, West and South (Jun. Prof. Gesa zur Nieden, 2013 – 2016), JGU as partner

ERA-Networks

9. **ERANET NanoSci-E+: NOIs**, Nanofibre Optical Interfaces for Ions, Atoms and Molecules (Prof. Arno Rauschenbeutel, 2009 – 2012), JGU as partner
10. **ERA-NET CHIST-ERA: R-ION**, (Prof. Ferdinand Schmidt-Kaler / Prof. Jochen Walz, 2011 – 2014), JGU as partner

EURATOM

11. **Euratom - Fission-2007: Child-Med-Rad**, Prospective cohort studies of children with substantial medical diagnostic exposure (Prof. Maria Blettner / Gaël P. Hammer, 2008 – 2009), JGU / UMC as partner
12. **Euratom - Fission-2013: CHANDA**, Solving Challenges in Nuclear Data (Dr. Klaus Eberhardt, 2013 – 2017), JGU as partner

EFRE

13. **EFRE: Technologiescouting in RLP** (Dr. Wolfgang Stille, 2010 – 2012), JGU as coordinator

COST

14. **COST: Biological oxidation reactions - mechanism and design of new catalysts** (Prof. Heinz Decker, 2010 – 2015), JGU as partner
15. **COST: ME-HAD**, European Network on Microvesicles and Exosomes in Health and Disease (Dr. Eva-Maria Krämer-Albers, 2012 – 2017), JGU as partner

16. COST: **The String Theory Universe** (Jun.-Prof. Dr. Gabriele Honecker, 2012 – 2017), JGU as partner

Other

17. NEWFELPRO / COFUND: **FemtoBias**, Femtosecond collective response of density waves and superconductors under external bias (Prof. Jure Demsar, 2014 – 2016), JGU as partner

18. Training in conference: **EMCI-Rumänisch** (Prof. Dörte Andres, 2007-2008), JGU as coordinator

19. MLP / Mutual learning on social inclusion and social protection: **Mutual learning on financial inclusion** (Werner Sanio, 2015 – 2009), JGU as partner

20. Europäischer Integrationsfonds (EIF): **Chorpädagogik als Sozialarbeit (Modellprojekt)** (Prof. Joshard Daus, 2010), JGU as coordinator