Within the research network Europe-Japan, research groups of the University of Bonn cooperate with partners of UK, Japan and Spain, to develop new magnetic nanoparticles and to test them in biomedical applications.

### Structure and partners of the network

![Graph showing the structure and partners of the network]

### Strategy

The DFG-Research Unit 917, University of Bonn, successfully investigated magnetic nanoparticles for application in gene- and cell-based therapies. In 2015, the Bonn Group established the Research Network Europe-Japan aiming for the development of new multimodal magnetic nanoparticles and biomedical applications together with international cooperation partners.

### Activities

- Regular international workshops for scientists and PhD students of the network in partner countries
- Research stays of the PhD students in the respective partner laboratories
- Strategic meetings of the leading scientists in partner countries
- Participation of all partners in relevant international conferences to present the research results of the network to public

### Aims of the project

- Fostering the international and research-specific cooperation between the particular partner countries
- Establishment and extension of an attractive network for the education of young scientists (PhD students, PostDocs) in the area of nanomaterials and gene therapy
- Regular scientific exchange of PhD students and scientists between the different areas of expertise within the network
- Recruitment of excellent young scientists and integration into the existing network
- Strengthen the visibility and attractiveness of the University of Bonn as an international research university

### Contact

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**Legend Japan (JPN):**  
JAIST: Japan Advanced Institute of Science and Technology  
UT: University of Tokyo  
USP: The University of Shiga Prefecture School of Engineering

**Legend Germany (GER):**  
UBonn: Universität Bonn  
TUM: Technische Universität München  
LMU: Ludwig-Maximilians-Universität München  
PTB: Physikalisch-Technische Bundesanstalt

**Legend UK (UK):**  
UCL: University College London  
Phys: Physics and Astronomy Department, UCL  
ChemEng: Chemical Engineering Department, UCL  
IBME: Institute for Biomedical Engineering, UCL

**Legend Spain (ESP):**  
ICMA: Institute of Materials Science  
ICMM: Institute of Materials Science of Madrid  
iMdea: Institute of Materials Science of Madrid  
UPV: University of the Basque Country

**Legend Japan (JPN):**  
JAIST: Japan Advanced Institute of Science and Technology  
UT: University of Tokyo  
USP: The University of Shiga Prefecture School of Engineering

**Legend Germany (GER):**  
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TUM: Technische Universität München  
LMU: Ludwig-Maximilians-Universität München  
PTB: Physikalisch-Technische Bundesanstalt

**Legend UK (UK):**  
UCL: University College London  
Phys: Physics and Astronomy Department, UCL  
ChemEng: Chemical Engineering Department, UCL  
IBME: Institute for Biomedical Engineering, UCL

**Legend Spain (ESP):**  
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UPV: University of the Basque Country

Quelle: Shinya Maenosono, JAIST, Nomi, Japan