BARBARA BŁASIAK

Affiliation:

Institute of Nuclear Physics
Polish Academy of Sciences
Magnetic Resonance Imaging Department
Krakow, Poland

Education:

Dec 2018	Habilitation, Polish Academy of Sciences, Institute of Nuclear Physics
Feb 2011	PhD in Physics, Polish Academy of Sciences, Institute of Nuclear Physics

Postions and work experience:

2019-present	Professor, Institute of Nuclear Physics, Polish Academy of Sciences (IFJ/PAN)
2019-2012	Adiunkt, Magnetic Resonance and Spectroscopy Department, IFJ/PAN
2013-18	Multiple visits to the University of Calgary: molecular MR imaging of glioma, targeted nanoparticles, RF coils.
2011	Research Assistant, Magnetic Resonance and Spectroscopy Department, Polish Academy of Sciences, Institute of Nuclear Physics, Krakow, Poland.
2012	Visiting scientist, Institute for Biodiagnostics (West), National Research Council of Canada, Calgary and Winnipeg, Canada: molecular MR imaging using targeted contrast agents, RF coils for MRI construction and testing
2005-2006	M.Sc. Work at the Polish Academy of Sciences, Institute of Nuclear Physics, MR Imaging Department, Krakow, Poland. Design and construction of double frequency rf coils for ^{1}H and ^{31}P

Major research projects:

1. Investigation of magnetic properties of the core/shell superparamagnetic nanoparticles. Calgary, Canada, 2012-16.
2. MRI sequence optimization for molecular imaging. Krakow, Poland, Calgary, Canada, 2010-2015.
3. Vascular endothelium in civilization diseases: from basic research to an innovative endothelium drug. Krakow, Jagiellonian Centre for Experimental Therapeutics (JECT), Poland, 2011-2012.
4. Development of a molecular imaging program for CNS neoplasms. Canadian Institute of Health Research. University of Calgary, Canada. 2007-2010.
5. Rf coil design for high field MRI. Calgary, Institute for Biodiagnostics, National Research Council of Canada, 2007-2009.
6. Optimization of the low field MRI system. Krakow, Poland and Winnipeg, Canada 2004-2010.
7. Application of localized MR spectroscopy to brain pathology using animal models. Polish Academy of Sciences, Institute of Nuclear Physics, MR Imaging Department, Krakow, Poland, 2004-2006.