**NEW HORIZONS IN MEDICAL IMAGING AND CELL THERAPY**

*International symposium*

**Warsaw, Poland 21st of April, 2016**

Venue – Main Hall of Mossakowski Medical Research Centre PAS, Warsaw, 5, Pawinskiego str

8:45 Welcome

9:00-11:00 **Session I: “Medical Imaging”**

Chairpersons: **Pawel Grieb** (*MMRC, Warsaw, Poland*)

**Jesus Ruiz-Cabello** (*Spanish National Cardiovascular Research Centre, Madrid, Spain*)

9:00-9:30 **Michal Fiedorowicz** (*MMRC, Warsaw, Poland*)

Quantification of anterograde axonal transport in optic nerves by manganese enhanced magnetic resonance imaging (MEMRI)

9:30-10:00 **Jesus Ruiz-Cabello** (*Spanish National Cardiovascular Research Centre, Madrid, Spain*)

New horizons in cardiovascular and pulmonary molecular and cellular imaging

10:00-10:30 **Piotr Bogorodzki** (*MMRC, Warsaw & Warsaw University of Technology*)

Our experience with hyperpolarized 13C glucose and 1H water as potential markers for MRI

10:30-11:00 **Miroslaw Janowski** (*JHU, Baltimore, USA & MMRC, Warsaw, Poland*)

Dynamic susceptibility contrast MRI for predicting and monitoring of intra-arterial delivery of therapeutic agents

11:00-11:30 *Coffee break*

11:30-13:00 **Session II: “Stem cells and biomaterials”**

Chairpersons: **Barbara Lukomska** (*MMRC, Warsaw, Poland*)

**Miguel Oliveira** (*University of Minho, Guimaraes, Portugal*)

**11:30-12:00 Piotr Walczak** (*JHU, Baltimore, USA & UWM, Olsztyn, Poland*):

White matter as a target for cell-based therapy of neurological disorders

**12:00-12:30 Miguel Oliveira** (*University of Minho, Guimaraes, Portugal*)

Smart hydrogels and nanoparticles in cell and tissue engineering applications: past, present and future

**12:30-13:00 Terje Svendsen** (*FMC Biopolymer, Sandvika, Norway*)

Brown seaweed – a valuable resource from the sea. Commercial and future use of alginate

13:45 Concluding remarks