

## RESULTS OF THE RESEARCH WORKS COMPETITION FOR YOUNG SCIENTISTS

### Category "Young scientists"

- 1<sup>st</sup> place      **Zhanneta Galyautdinova** (State Research Center - Burnasyan Federal Medical Biophysical Center of Federal Medical Biological Agency)  
"DETERMINATION OF EFFECTIVE SPECTRUM OF MEDICAL LINEAR ELECTRON ACCELERATORS FROM DEPTH DOSE DISTRIBUTIONS"
- 2<sup>nd</sup> place      **Galina Nifontova** (MEPHI)  
"CYTOTOXICITY OF POLYELECTROLYTE MICROCAPSULES ENCODED WITH SEMICONDUCTOR NANOCRYSTALS"
- 3<sup>d</sup> place      **Victor Krivenkov** (MEPHI)  
"LASER IRRADIATION AS A TOOL TO CONTROL THE RESONANCE ENERGY TRANSFER IN BACTERIORHODOPSIN-QUANTUM DOT BIO-NANO HYBRID MATERIAL"
- 3<sup>d</sup> place      **Alexey Mikhailov** ("STC Amplituda" LLC)  
"EQUIPMENT FOR RADIOPHARMACEUTICALS QUALITY CONTROL"

### Category "PhD students"

- 1<sup>st</sup> place      **Anna Sharonova** (National Research Tomsk Polytechnic University)  
"THE METHODS OF SUBSTRATE FUNCTIONALISATION WITH AGNPS"
- 2<sup>nd</sup> place      **Margarita Shavman** (A.N. Bakoulev Scientific Center for Cardiovascular Surgery)  
"DYNAMIC <sup>13</sup>N-AMMONIA STRESS-PET/CT POSSIBILITIES IN THE DETECTION OF FUNCTIONAL SIGNIFICANCE CORONARY ARTERY STENOSES USING ABSOLUTE VALUES OF A MYOCARDIAL BLOOD FLOW AND CORONARY FLOW RESERVE"
- 3<sup>d</sup> place      **Mariia Zvaigzne** (MEPHI)  
"FINE-TUNING OF SILICA COATING PROCEDURE FOR PREPARATION OF BIOCOMPATIBLE AND BRIGHT PbS/SiO<sub>2</sub> QDS"

### Category "Students"

- 1<sup>st</sup> place      **Daria Mokrova** (Shemyakin-Ovchinnikov Institute of Bioorganic Chemistry, RAS)  
"DESIGN OF RADIOMETRIC POLYMER NANOBIO THERMOMETER BASED ON QUANTUM DOTS"
- 2<sup>nd</sup> place      **Pavel Molodov** (National Research Tomsk Polytechnic University)  
"MODERNIZATION OF IRT-T RESEARCH REACTOR FOR BNCT APPLICATIONS"
- 3<sup>d</sup> place      **Kotlyarova Yulia** (Obninsk Institute for Nuclear Power Engineering MEPHI)  
"ELECTROPHYSIOLOGICAL PARAMETERS OF SINUS NODE FUNCTION IN PATIENTS WITH PAROXYSMAL TACHYARRHYTHMIAS"
- 3<sup>d</sup> place      **Tulyakova Elvira** (Obninsk Institute for Nuclear Power Engineering MEPHI)  
"BACTERIA CARRIAGE OF PATHOGENIC AND ANTIBIOTIC RESISTANT STAPHYLOCOCCUS AMONG HEALTHY CHILDREN OF EARLY CHILDHOOD AND PRESCHOOL AGE"