

## PHASE 1 2016

### Activities

#### **Activity 1** Design of the *in vitro* preclinical study

- Design of the *in vitro* preclinical study
- Design of the project-dedicated biobank and of the associated database

**Activity 2** Experimentation in the *in vitro* preclinical study for nanosystems and their components – Preliminary *in vitro* study on normal and tumor cell lines

**Activity 3** Dissemination – Project promotion through the project-dedicated web page, communications at scientific events and meetings of the implementation team.

## RESULTS

### Patents

Patent request submitted at OSIM (A00922/28.11.2016: „Tetrapyrrolic Compound for theranostic applications and procedure for fabrication”, authors: Rica Boscencu, Gina Manda, Radu Petre Socoteanu, Mihail Eugen Hinescu, Natalia Radulea, Neagoe Ionela, Luis Felipe Vieira Ferreira.

### Project promotion

- Project promotion through presentation at COST Actions:
  - COST CA15107 MutiComp “Multi-Functional Nano-Carbon Composite Materials”, 19-20.10.2016 Crete, Greece;
  - COST BM1203 EU-ROS “The European Network on Oxidative Stress and Redox Biology Research”, 07-10.11.2016 in Eilat, Israel

### Oral presentations:

Gina Manda. The promise of nanomaterials for photodynamic therapy in cancer. COST Action CA15107, 19-20.10.2016, Crete, Greece

Gina Manda. The NANOTHER project. COST Action BM1203, 07-10.11.2016, Eilat, Israel.

### Collaboration:

- Italian Institute of Technology, Prof. Silvia Giordani - carbon nanoparticles as alternative to iron oxide nanoparticles for nanoPDT
- EU-ROS consortium – implementation of the latest redox biology concepts and tools for PDT in solid tumors (Prof. Paul Winyard)
- Partners meeting organized in 24.11.2016 at Partner 2 „Victor Babes” National Institute of Pathology.

### Communications:

**Annual Conference of “Victor Babes” Institute and the 9<sup>th</sup> National Symposium of Pathology, 24-26.11.2016, INCD “Victor Babes”, Bucharest.**

- Laurențiu Iliuță Anghelache, Bogdan Gabriel Marinescu, Gheorghita Isvoranu, Maria Comănescu, Valentin Nicorescu, Maria Crivineanu, Ionela Neagoe, Gina Manda. Preliminary *in vivo* study regarding tissue toxicity of iron oxide superparamagnetic nanoparticles in tumor-bearing mice (poster).