Canbioprot
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Administrative details

- Project title: Implementing proteomics technologies for the discovery of novel cancer biomarkers / CANBIOPROT
- Project No. ID 685 / Cod SMIS-CSNR 12644/152/11.06.2010
- Funding agency: NASR, Structural funds, POS-CCE 2.1.2
- Duration: 36 month, June 2010-June 2013
- Total value: 5,271,786 lei;
  - FEDR – 4,051,728 lei.
  - State budget – 829,872 lei
Partner: INCD Victor Babes

- Beneficiary: INCD Victor Babes
- Project director: Stefan N. Constantinescu, Ludwig Institute, Burussells, Be

Objectives

- Increasing skills and capabilities in proteomics, focusing in method development and implementation of proteomics methods aiming at the discovery, validation and application of novel biomarkers in cancer diagnostics
- Focus on major killers:
  - Glioblastoma
  - Cervical cancer
  - Pancreatic cancer
Methodological background

- Standardization of pre-analytical and analytical procedures
- Proteomics technologies involved:
  - Mass spectrometry (SELDI-TOF, LC-MS)
  - 2D Electrophoresis + 2D – DIGE
  - Multiplex – xMAP
  - Protein arrays
- Bioinformatics and biostatistics tools
Achievements so far:

- Human resources: 5 position for doctoral and post-doctoral fellows in the project
- Development of infrastructure
- Partnership with Biomics Center – St. George University – London
- Identification of sets potential diagnostic biomarkers for Glioblastoma, PDAC and cervical cancers (under validation), up to identification of several individual candidates
- 1 BOOK and 1 book chapter
- 3 publications in high impact journals
- 4 Submissions under evaluation
- 3 patent applications

Acquisition of research equipment

xCellingence

2D-DIGE
Books:


Scientific articles


- Maria Linda Cruceru, Ana-Maria Enciu, Adrian Claudiu Popa, Monica Neagu, Radu Albulescu, Cristiana Pistol Tanase, Stefan N. Constantinescu, Signal Transduction Signature in Glioblastoma: Multiplex Analysis and Real Time Cell Assays, Current molecular Medicine, 2013, in press

- Tanase Cristiana, Codrici Elena, Popescu Ionela Daniela, Cruceru Maria Linda, Enciu Ana Maria, Albulescu Radu, Ciobotaru Vasile, Arsene Dorel, ANGIIOGENIC MARKERS: MOLECULAR TARGETS IN PITUITARY ADENOMA,Personalized Medicine,2013,in press

- Radu Albulescu, Elena Codrici, Ionela Daniela Popescu, Simona Mihai, Laura Georgiana Necula, Daniel Petrescu, Mihaela Teodoru, Cristiana Pistol Tanase, Cytokine Patterns in Brain Tumour Progression, Mediators of Inflammation, 2013 in press
Scientific articles


Thank you for your attention!