

## PROGRAM IDEI\_PROIECTE DE CERCETARE EXPLORATORIE\_COMPETITIA 2011

## CHIMIE

| NR. CRT. | COD PROIECT              | NUME DIRECTOR   | PRENUME DIRECTOR | INSTITUTIE   | TITLU  | BUGET APROBAT AN 2013 |
|----------|--------------------------|-----------------|------------------|--|--|-----------------------|
| 1        | PN-II-ID-PCE-2011-3-0255 | Apetrei         | Constantin       | UNIVERSITATEA „DUNAREA DE JOS” DIN GALATI  | Development of an electronic system based on electrochemical sensors and biosensors for the control of biogenic amines                         | 209,274.59            |
| 2        | PN-II-ID-PCE-2011-3-0286 | Bala            | Camelia          | Universitatea din Bucuresti  | BIOFUNCTIONALIZED INTERFACES AS SMART BIOSENSORS FOR FAST IDENTIFICATION OF PHARMACEUTICAL AND METABOLITES IN WASTE WATER                      | 225,745.43            |
| 3        | PN-II-ID-PCE-2011-3-0032 | Bogdan          | Mircea           | Institutul National de Cercetare-Dezvoltare pentru Tehnologii Izotopice si Moleculare, Cluj-Napoca | Biologand - macromolecule intermolecular interactions as probed by spectroscopic and microcalorimetric techniques                              | 219,793.65            |
| 4        | PN-II-ID-PCE-2011-3-0510 | Calderon Moreno | Jose             | Institutul de Chimie Fizica "Ilie Murgulescu"  | Rapid, innovative, soft-solution advanced processing of a new bioalloy surface for the improvement of its interactions with human fluids       | 216,715.61            |
| 5        | PN-II-ID-PCE-2011-3-0187 | Dan             | Rosu             | Institutul de Chimie Macromoleculara Petru Poni Iasi   | Advanced research related to the behavior of multi-component polymer systems under simulated environmental factors action                      | 203,170.88            |
| 6        | PN-II-ID-PCE-2011-3-0382 | Elisa           | Mihail           | Institutul National de Cercetare Dezvoltare pentru Optoelectronica INOE 2000                       | Quantum confinement effect of CdS/CdSe quantum dots in phosphor aluminosilicate matrix as a promising new temperature sensing material         | 225,745.43            |
| 7        | PN-II-ID-PCE-2011-3-0328 | Ionita          | Elena Gabriela   | Institutul de Chimie Fizica "Ilie Murgulescu" al Academiei Romane                                  | Exploring gels containing cyclodextrins by EPR spectroscopy: structure, properties, applications   | 212,200.70            |
| 8        | PN-II-ID-PCE-2011-3-0304 | Lazarescu       | Valentina        | Institutul de Chimie Fizica Ilie Murgulescu al Academiei Romane                                    | Molecular control over single-crystalline GaAs(hkl) surface electronic properties by using bio-thiols  | 295,275.02            |
| 9        | PN-II-ID-PCE-2011-3-0271 | Lupu            | Stelian          | Universitatea POLITEHNICA din Bucuresti  | Electrochemical micro-biosensors based on electrodes and their arrays modified with composite materials  | 148,991.98            |
| 10       | PN-II-ID-PCE-2011-3-0152 | MEDVEDOVICI     | ANDREI VALENTIN  | UNIVERSITATEA DIN BUCURESTI  | Large volume injection of mobile phase immiscible diluents in HPLC   | 244,933.79            |
| 11       | PN-II-ID-PCE-2011-3-0355 | Sandulescu      | Robert           | Universitatea de Medicina si Farmacie "Iuliu Hatieganu" Cluj-Napoca                                | AMPEROMETRIC IMMUNOSENSOR FOR OVARIAN AND UTERINE CANCER BIOMARKERS  | 225,745.43            |
| 12       | PN-II-ID-PCE-2011-3-0366 | SARBU           | COSTEL           | UNIVERSITATEA BABES-BOLYAI   | Comprehensive evaluation of redox activity and lipophilicity for biogenic amines and related compounds   | 225,745.43            |
| 13       | PN-II-ID-PCE-2011-3-0272 | Spataru         | Nicolae          | Institutul de Chimie Fizica Ilie Murgulescu al Academiei Romane                                    | Interactional and functional effects of the substrate on the electrochemical behavior of micro and nanostructured metallic and oxidic deposits | 196,398.52            |
| 14       | PN-II-ID-PCE-2011-3-0922 | Staicu          | Angela           | Institutul National de Cercetare-Dezvoltare pentru Fizica Laserilor, Plasmei si Radiatiei          | Light triggering of drug carrier systems for targeted delivery and controlled release  | 212,200.70            |

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| 15       | PN-II-ID-PCE-2011-3-0853 | TOMOAIACOTISEL | MARIA            | Universitatea Babes-Bolyai          | MULTIFUNCTIONAL NANOSTRUCTURES FORMED OF GOLD OR SILVER NANOPARTICLES AND DIFFERENT BIOMOLECULES WITH MEDICAL APPLICATIONS Acronym: NANOMED          | 169,309.07            |
| 16       | PN-II-ID-PCE-2011-3-1067 | Ungureanu      | Eleonora-Mihaela | UNIVERSITATEA POLITEHNICA BUCURESTI | The project entitled MODIFIED ELECTRODES FOR ANALYTICAL APPLICATIONS aims the development of new materials for electrochemical sensors. This project | 180,596.34            |
| TOTAL    |                          |                |                  |                                     |  | 3,411,842.53          |