

**Project title :**

BIOANALYTICAL SYSTEM SYSTEM FOR PESTICIDES DETECTION IN COMPLEX FOOD MATRIX

**Acronym : SCREENFOOD****Thematic areas :** Agriculture, food safety and security**Contracting Authority :** CNMP**Coordinator :****UNIVERSITY OF BUCHAREST****Project Director :** profesor dr. Camelia BALA**Parteners :**

1. UNIVERSITY OIL AND GAS PLOIESTI
2. POLITEHNICAL UNIVERSITY OF BUCHAREST

**Abstract :**

The interdisciplinary project SCREENFOOD aims to develop bioanalytical systems for detection of pesticide residues in complex food matrices, by combining the expertise of partners in the development and application of techniques of analytical chemistry, analytical biochemistry, biosensors, synthesis and characterization of carbon nanotubes, electronics and technology achievement sensors. Checking pesticide residues in foods, especially those intended for infants, represents a major burden for public health insurance. Common methods for detection of pesticides in food, gas chromatography and / or high performance liquid chromatography is laborious, requiring more time for an analysis, high purity solvents, specialized personnel and equipment with high cost and price analysis does not allow in the field. Bioanalytical systems proposed in the project integrates elements of recognition enzymatic, amperometric sensors obtained by screen printing, easily manipulated accomplished with new material - carbon nanotubes, which will allow rapid detection of pesticide residues in food directly from the sample.

<b>Project duration :</b>	36 months
<b>Start date :</b>	18/09/2007
<b>End date :</b>	18/09/2010