

## Dr. Ing. Malina Desliu-Avram

Cercetator Stiintific grd. III in Chimie

### Studii

Universitatea Politehnica din Bucuresti, Facultatea de “Chimie Aplicata si Stiinta Materialelor”, Doctorat in " Inginerie Chimica " (2009 – aprilie 2015);

Universitatea Politehnica din Bucuresti, Facultatea de “Chimie Aplicata si Stiinta Materialelor”, Masterat in " Separari si Purificari Avansate " (2008 – februarie 2010);

Universitatea Bioterra Bucuresti, Facultatea de „Management Agroturistic”, Masterat in „Management performant in alimentatie publica, agroturism si protectia consumatorului” (2008 – februarie 2010);

Universitatea Politehnica din Bucuresti, Facultatea de “Chimie Aplicata si Stiinta Materialelor”, Inginer Diplomat in ” Chimie Alimentara ” (2003 - 2008).

Universitatea Politehnica din Bucuresti, Program postuniversitar de formare si dezvoltare profesionala continua: “Eco-economie si dezvoltare durabila” (iunie 2013).

**Domenii de expertiza:** chimie; bioresurse regenerabile; cercetari teoretice si aplicative privind extractia principiilor active din materiale vegetale prin tehnici moderne si conventionale; experienta in proiecte nationale si internationale ca membru in echipa de cercetare; elaborare articole si lucrari stiintifice de specialitate.

### Domenii de cercetare

- Valorificarea materiilor prime provenite din resurse naturale (extractii din plante, fertilizanti din surse naturale, polioli vegetali, valorificare sub-produse, purificari etc.);
- Recuperarea si procesarea subproduselor din sectorul agro-industrial, pentru obtinerea de noi bioproduse cu valoare agaugata.

### Activitate

- Autor/co-author la 11 articole publicate in reviste ISI/non-ISI;
- Co-author la 6 cereri de brevet de inventii si 1 brevet;
- Participarea la mai mult de 27 comunicari stiintifice la conferinte nationale si internationale;
- Participarea la mai mult de 28 proiecte de C&D, dintre care cele mai importante sunt:

| Program/Proiect   | Functia    | Perioada  |
|---|------------|-----------|
| PNCDI3 Proiect EUREKA 92/2016, Noi bauturi functionale pe baza de fructe cu impact asupra sanatatii consumatorilor  | Cercetator | 2016-2019 |
| PTE 57/2016, Dezvoltarea unei noi tehnologii pentru imbogatirea oului de consum in carotenoide si microelemente, aliment cu siguranta maxima asupra sanatatii umane   | Cercetator | 2016-2018 |
| Proiect 2-PTE, Fertilizanti foliari avansati pentru cultura legumelor   | Cercetator | 2016-2018 |
| Contract nr. 156/2014, Produse ecologice pe baza de diatomita si uleiuri esentiale pentru diminuarea reziduurilor si contaminantilor din lantul alimentar   | Cercetator | 2014-2017 |
| PNCDI2 EUREKA Proiect 335E/2013, Whey lactose bioconversion in high-added value products using cheap renewable substrate  | Cercetator | 2013-2016 |
| Contract de cercetare nr. 1755/2013, Studii si cercetari privind optimizarea functionarii digestoarelor de biogaz - ecologizarea si valorificarea unor produse secundare si deseuri rezultate din activitatea de productie de pe platforma beneficiarului | Cercetator | 2013-2016 |
| ERA-NET Manunet, Contract nr. RO7-057, Fertilizers with   | Cercetator | 2012-     |

|  |            |           |
|--|------------|-----------|
| slow/controlled release of active compounds, prepared by microencapsulation in environmental friendly polymeric structures |            | 2015      |
| PNCDI2- Program inovare, Produs functional aglutenic pe baza de apa minerala medicinala                                    | Cercetator | 2012-2013 |
| PNCDI2- Program inovare, Bautura fortifianta pe baza de zer pentru sustinerea efortului sportiv                            | Cercetator | 2012      |
| Contract direct nr. 1706 PIB/2009, Tehnologie de micropilot privind obtinerea poliolor din uleiuri vegetale                | Cercetator | 2009      |

#### **Membru al asociatiilor profesionale**

- Membru al Societatii de Chimie din Romania (SChR);
- Membru al Societatii de Inginerie Chimica din Romania (SICR).

#### **Publicatii (lista selectiva)**

1. M. Popescu, M. Deșliu Avram, F. Oancea, C. Lupu, C. P. Cornea, “Bioassisted azeotropic Soxhlet extraction of mustard oilseeds”, in Journal of Biotechnology, Supp. 2017; **vol. 256**, pp. S101, ISSN 0168-1656.
2. M. Stroescu, A. Stoica, O. C. Parvulescu, M. Avram, T. Dobre, “A shrinking core model for seeds oil extraction with particularization to Camelina oil separation”, in Chemical Engineering Research and Design, **vol. 97**, May 2015, pp. 1-8, ISSN 0263-8762.
3. C. Rovinaru, D. Pasarin, M. Desliu, “Adaptation of a non-conventional yeast strain which metabolise lactose by establishment of culture media composition based on whey”, in Romania by ”Lucian Blaga” University of Sibiu, May 2015, pp. 26-34, ISSN 1843-0694.
4. M. Avram, M. Stroescu, A. Stoica-Guzun, O. Floarea, “Optimisation of the oil extraction from Camelina (*Camelina sativa*) seeds using response surface methodology”, in Rev. Chim., **vol. 66**, no. 3, Mar. 2015, pp. 417-421, ISSN 0034-7752.
5. M. Avram, A. Stoica, T. Dobre, M. Stroescu, “Extraction of vegetable oils from ground seeds by percolation techniques”, in U.P.B. Sci. Bull., Series B, **vol. 76**, no. 2, 2014, pp. 13-22, ISSN 1454-2331.
6. D. Pasarin, C. Rovinaru, Gh. Raceanu, M. Avram, “Soluble fibres-rich beverage with natural improved flavors for a healthy lifestyle”, in Romania by ”Lucian Blaga” University of Sibiu, May 2014, pp. 140-147, ISSN 1843-0694.
7. C. Rovinaru, D. Pasarin, M. Avram, Gh. Raceanu, “Role of organoleptics in consumer acceptance of a new dairy beverage”, in Romania by ”Lucian Blaga” University of Sibiu, May 2014, pp. 156-164, ISSN 1843-0694.
8. 24<sup>th</sup> Congress of Chemists and Technologists of Macedonia with international participation, 11-14 September 2016 in Ohrid, Macedonia, Malina Desliu-Avram, Marius Ghiurea, Stefan-Ovidiu Dima, Radu-Claudiu Fierascu, Fanica Bacalum, Adrian Radu, Florin Oancea, “Analytical investigation of bioactive compounds present in extractis from grass biomass”.
9. 8<sup>th</sup> European Exhibition of Creativity and Innovation – EUROINVENT, 19-21 mai 2016, Iasi, Romania. Diploma and silver medal, Popescu Mariana, Oancea Florin, Desliu-Avram Malina, “Ecological product for the stored grain protection and process for obtaining the same”.
10. 8<sup>th</sup> European Exhibition of Creativity and Innovation – EUROINVENT, 19-21 mai 2016, Iasi, Romania. Diploma and silver medal, Mariana Popescu, Florin Oancea, Elena Radu, Malina Desliu-Avram, „Microencapsulation of plant protection bioproducts in saponifiable vegetable matrix”.
11. 18<sup>th</sup> Romanian International Conference on Chemistry and Chemical Engineering, RICCCE XVIII, September 4-7, 2013, Sinaia, Malina Avram, Gheorghe Raceanu, Marta Stroescu, Anicuta Stoica, Tanase Dobre, Octavian Floarea, “Use of fixed bed percolation at oil separation from grinded rapeseed”.