

# Isopencu Gabriela Olimpia

## Lecturer

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### Contact information

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### Education and training

Dates	<b>2011</b>
Title of qualification awarded	Postdoctoral
Principal subjects/occupational skills covered	Organizing the national interest postdoctoral school of " <b>Applied biotechnologies</b> " with impact in Romanian bioeconomy, POSDRU /89/1.5/S/52432 Project ( <b>SPD-BIOTECH</b> ) Advanced research in the biotechnology field concerning the antioxidant and antimicrobial activity of some active principles obtained from autochthon herbs. Occupational skills: - newest experimental procedure in microbiological activity research; - different methods to identify the antioxidant activity of active substances; - capacity to use CG/MS apparatus.
Name and type of organisation providing education and training	USAMV Cluj Napoca (University of Agricultural Sciences and Vet Medicine), Teaching and research
Level in national or international classification	Teaching and research, type A
Dates	<b>2011</b>
Title of qualification awarded	Project Manager, code COR: 241919
Principal subjects/occupational skills covered	- Establishing the project scope/aims; Establishing the requirements for integrated management of project activities and milestones planning project; Management costs and the use of operational resources for the project; Realization of the acquisitions procedures for project; Risk management; Project team management; Communication management at project level; Project Quality Management; - Consolidation of theoretical concepts, practical and organizational skills in management area; - Graduated with a score of 9.
Name and type of organisation providing education and training	Min. Muncii, CNFPA, Min. Educatiei, Schultz Consulting
Level in national or international classification	Administrative

Dates	<b>1999- 2008</b>
Title of qualification awarded	Chemical Engineering Doctorate (PhD)
Principal subjects/occupational skills covered	In the Engineering Sciences. The subject of the Phd Thesis: "The powdery biomaterials drying using intensification techniques".
Name and type of organisation providing education and training	Politehnica University of Bucharest, Teaching and research
Level in national or international classification	Teaching and research, type A

## Professional experience

Dates	<b>2008-present</b>
Occupation or position held	Lecturer
Main activities and responsibilities	Teaching courses, seminars, project in chemical and biochemical engineering field (dynamic processes, heat and mass transfer, intensification operations, biotechnologies, microbiology). Research in the intensification process field and biotechnology.
Name and address of employer	Politehnica University of Bucharest, Splaiul Independentei St., No 313, 060043, Bucharest, Romania
Type of business or sector	Teaching and research, type A

## Academic and research interests

- Experience in theoretical design in dynamics, heat and mass transfer and process intensification for chemical and biochemical unit operations.
- Transport phenomena;
- Intensifying procedures of the unitary processes and operations in chemical and biochemical industry (fluidization, utilization of sounds and mechanical oscillations);
- Dynamics and heat transfer of heterogeneous solid – fluid systems;
- Drying of the materials (agricultural, food, pharmaceuticals);
- Separation operations of the heterogeneous solid - fluid systems: filtration, sedimentation;
- Dynamic modeling of biochemical reactors – stirring phenomena;
- Antioxidant and antimicrobial activity of active principles of herbs;
- Extraction of the active substances from different herbs;
- Environmental protection.

## Teaching activity

*Se completeaza conform indicatiilor din tabel*

<i>Ciclu studii (Master/licenta)</i>	<i>Denumire specializare</i>	<i>Cod disciplina din planul de invatamant</i>	<i>Titlu disciplina</i>	<i>Tip activitate (curs/proiect/laborator etc)</i>
<i>Licenta</i>	<i>Ingineria si Informatica Proceselor Chimice si Biochimice (CASM)</i>	<i>UPB.11.S.06.O.517</i>	<i>Operatii Hidrodinamice</i>	<i>Curs/laborator</i>
<i>Licenta</i>	<i>- Ingineria Produselor Alimentare (CASM, ISB)</i> <i>- Ingineria Sistemelor Biotehnice si Ecologice (ISB)</i> <i>- Ingineria Dezvoltarii Rurale Durabile (ISB)</i>	<i>UPB.11.S.05.O.201</i>	<i>Biotehnologii</i>	<i>Curs/laborator/seminar</i>
<i>Licenta</i>	<i>- Ingineria si Informatica Proceselor Chimice si Biochimice (CASM)</i>	<i>UPB.11.S.06.O.516</i>	<i>Microbiologie</i>	<i>Curs/laborator</i>

	- <i>Chimie Alimentara si Tehnologii Biochimice (CASM)</i>	UPB.11S.06.O.415		
<i>Licenta</i>	<i>Ingineria si Informatica Proceselor Chimice si Biochimice (CASM)</i>	UPB.11.S.05.O.504	<i>Procese Hidrodinamice</i>	<i>Laborator</i>
<i>Licenta</i>	<i>Ingineria Produselor Alimentare (CASM, ISB)</i>	UPB.11.T.03.O.204/ UPB.11.T.04.O.211	<i>Operatii Unitare</i>	<i>Laborator/proiect</i>
<i>Licenta</i>	<i>Ingineria si Informatica Proceselor Chimice si Biochimice (CASM)</i>	UPB.11.S.08.O.515	Proiectarea instalațiilor chimice și biochimice Curgerea fluidelor in sisteme multifazice	<i>Proiect</i>
<i>Master</i>	<i>Ingineria Proceselor Chimice</i>	UPB.11.S.09.O.202	Procedee de separare avansata	<i>Curs/laborator/seminar</i>
<i>Master</i>	<i>Ingineria Proceselor Chimice</i>	UPB.11.S.11.O.201		<i>Laborator/proiect</i>

### Publication (selective):

#### Articles (eventual cu link-uri care lucrarile publicate on-line)

1. **Isopencu Gabriela**, Ferdes, M., *Aspects regarding the influence of concentration of components with antifungal activity from some essential oils*, Revista de Chimie, 63, nr 2, p 205-211, **2012**
2. Mardaru, A., Jinescu, C., Prisecaru, T., **Isopencu Gabriela**, Mares, M., *Evaluation of flow field in a column with stirring using CFD analysis*, Revista de Chimie, 63, nr 8, p 825-830, **2012**

#### Research projects ( eventual cu link-uri care paginile web daca exista)

1. Spume ceramice din nanocompozite polimerice, destinate depoluarii fluxurilor gazoase din centralele termice , CNMP – parteneriat, 2008-2011.
2. Fenomene de transfer la termoprosesarea in strat strapuns a biomaterialelor cu mentinerea proprietatilor biochimice, Grant CNCSIS, nr. UPB: CH 45-06-14, 2006-2008

#### Project manager

3. Studiul proceselor de transfer la uscarea nutrietilor alimentari prin procedee intensive, nr UPB 48-01-25, Faza 2001, 2002, Cod CNCSIS 191, Ministerul Educatiei si Cercetarii, 2001, 2002.