Dr. biochem. Mihaela DONI (BADEA), Scientific Researcher grade I

1. Education:

Institution	Period	Degrees or diplomas
University of Bucharest	1996 - 2001	Ph.D. in Chemical Sciences
University of Bucharest, Faculty of Chemistry	1987 - 1992	M.Sc. in Technological Biochemistry

2. Professional experience:

Institution	Period	Position
ICECHIM Bucharest, Romania	2015 - present	Senior Scientist I
ICECHIM Bucharest, Romania	2005 - 2015	Senior Scientist II
'Tor Vergata' University, Rome, Italy	2001 – 2002	PostDoc 'Marie Curie' Fellow
'Tor Vergata' University, Rome, Italy	2003 - 2004	PostDoc Researcher
ICECHIM Bucharest, Romania	1992 - 2001	Scientific Researcher

3. Relevant experience (including managerial experience) in national/international programmes/ projects:

Programme/Project	Position	Period
Programm: POS.CCE, Operation 2.2.1. Developing of the INCDCP-ICECHIM infrastructure for the increasing of research, technological development and innovation competitiveness in the agro-bio-economy field - AGRI-FLUX	Member of the Management commitee	2014 - 2015
PN2Programm, Project IDEAS, *Peroxynitrite: Relevance for Food Safety and Novel Electrochemical Detection*	Project manager	2014 - 2016
PN 2Programm, Partnership Project, Fast methods for toxins monitoring during the food processing for safety improvement (SAFE FOOD)	Project manager	2007 - 2010
Program PN 2, Proiect Capacitati, Biotechnology and Bioanalysis Laboratory	Project manager	2007 - 2009
Program CEEX Biotech, Innovative systems for fast evaluation of the substances with toxic potential in beverage and food	Project manager	2006 - 2008
Program PN 1, Proiect Biotech, Optical and electrochemical biosensors for biotechnological products fast control and/or screening	Project manager	2004 - 2006
Leonardo da Vinci Pilot Project 2002-RO/02/B/F/141004, Training module for environamental pollution control	ICECHIM Responsible	2003 - 2005
Program FP5, contract no. HPMF-CT-2000-000725, Flow-through and flow injection analysis using electropolymerized enzyme electrodes for food and environmental quality control	Grant Responsible	2001 - 2002 (18 months

4. Other relevant information:

- **Expertise** in biotechnology, **enzymology**, (bio)sensors, flow bioanalysis, **antioxidants**, (bio)materials, chemiluminescence
- over ***40 papers (33 ISI)***; ***Hirsch index = 9***; (co)-author of ***10 books/ book chapters***; over ***200 works presented*** at international conferences**.**
- ***Patents: 2 OSIM, 1 EPO, 1WIPO; Patent applications: 1 EPO*** and ***11 OSIM***
- ***Manager of 5 PNCDI projects*** and of ***1 FP grant***; ***Responsible*** of ***1 PNCDI project, 1 Leonardo da Vinci pilot project***; ***Member*** in the ***Management committee*** of ***1 POS CCE project; research team member of 4 European projects*** and ***over 25 national projects***
- ***Evaluator*** *for* ***NATO projects; EU evaluator*** for Marie Curie projects; ***National evaluator*** for various RD projects (CNCSIS, CEEX, PN I, PN II and PN III); ***Reviewer for:*** *Biosensors & Bioelectronics* (Elsevier); *Analytica Chimica Acta* (Elsevier); *Meat Science* (Elsevier), *Toxicological and Environmental Chemistry* (Taylor & Francis); *Luminescence* (Wiley),*Journal of Food Composition and Analysis* (Elsevier); *Nitric Oxide* (Elsevier).

5. Selection of relevant papers/patents for the project:

- **M. Badea**, A. Curulli, G. Palleschi, *Oxidase enzyme immobilisation through electropolymerised films to assemble biosensors for batch and flow injection analysis*, Biosensors & Bioelectronics, 18, 689 – 698 **(2003)**
- A.F. Danet, **M. Badea Doni** "*Flow Injection Analysis. Industrial Applications" by*, In: Reedijk, J. (Ed.) Elsevier Reference Module in Chemistry, Molecular Sciences and Chemical Engineering. Waltham, MA: Elsevier **(2013)** doi:10.1016/B978-0-12-409547-2.00149-9
- A.F. Danet, **M. Badea – Doni**, *Chapter 32: 'Determination of Lipid Oxidation by Chemiluminescence Reagents'* in: **'**Flow Injection Analysis of Food Additives', pp. 623-638, CRC Press, Francis & Taylor Group, Editors: Claudia Ruiz-Capillas, Leo M. L. Nollet **(2015)** ISBN 9781482218190
- Raut, I., Oancea, F., Şesan, T. E., Jecu, L., Arsene, M. L., **Doni, M.B**., Vasilescu, G., Trichoderma asperellum Td36–Versatile strain for treatment of high residue agricultural systems and nutraceutical crops. Journal of Biotechnology, 208, S62 **(2015)**
- Nicolae Gh., Oancea F., Rusen R., **Doni M**., Raut I., Calin M., Jecu M.L., 2012, Strain of Pseudoxanthomonas mexicana and controlled release composition based on it, European patent awarded as EP 2738267/10.02.**2016**.