

Curriculum vitae

Nume/Prenume Albert (Ábrahám) Beáta
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Funcția și locul de muncă (universitatea, facultatea, catedra) Profesor universitar, Universitatea Sapientia, Facultatea de Stiinte Economice, Socio-Umane și Inginerești Miercurea Ciuc, Departamentul de Bioinginerie

Educație și formare. Diplome obținute

Institutia	Perioada	Titlul obtinut
Universitatea Politehnică Bucuresti, Facultatea de Chimie Aplicată si Stiinta Materialelor	2007-2012	Doctor în Inginerie chimică
Institutul de Biologie al Academiei Române	2002- 2009	Doctor în Biologie
Universitatea Babeș Bolyai, Facultatea de Biologie-Geologie, Specializarea Ecologie si protectia mediului	1995-1999	Licențiat în biologie

Experiența profesională

Funcția	Perioada	Instituitia
Profesor universitar	2014- prezent	Universitatea Sapientia, Facultatea de Stiinte Economice, Socio-Umane și Inginerești Miercurea Ciuc, Departamentul de Bioinginerie
Conferentiar universitar	2010-2014	Universitatea Sapientia, Facultatea de Stiinte Miercurea Ciuc, Departamentul de Bioinginerie
Sef lucrări	2007- 2010	Universitatea Sapientia, Facultatea de Stiinte Miercurea Ciuc, Departamentul de Bioinginerie
Asistent universitar	2004-2007	Universitatea Sapientia, Facultatea de Stiinte Miercurea Ciuc, Departamentul de Stiinte Tehnice si ale Naturii
Preparator	2002-2004	Universitatea Sapientia, Facultatea de Stiinte Miercurea Ciuc, Departamentul de Stiinte Tehnice si ale Naturii

Alte funcții deținute (nedidactice)

Biolog	2020- prezent	Spitalul Județean de Urgență Miercurea Ciuc, Laboratorul de Biologie Moleculară
Inspector de specialitate	2000-2002	Agenția de Protecția Mediului, Jud. Harghita

Limbi străine cunoscute

***Nivel vorbit/scriș:* Engleză**

Activitatea didactică (cursuri, seminarii, lucrări practice conduse)

Disciplina	Perioada		
	Curs	Lucrări practice	Proiecte
Biochimie I. (BSc)	2005- prezent	2002-2009	
Biochimie II (BSc)	2006-2015	2002-2009	
Biochimie si enzimologie (BSc)	2011-2015		
Nutritia umana (BSc)	2011-2014		
Bazele moleculare ale geneticii si a ingineriei genetice (BSc)	2011- prezent		
Influenta mediului asupra alimentatiei (MSc)	2013-2014		

Activitatea de cercetare

Granturi, proiecte de cercetare	Functia	Perioada	Volumul finantării
Programul PNCDI2/Ingineria metabolică la Escherichia coli pentru obținerea 1,4-butandiolului din glucoză și glicerină și conversia catalitică a acestuia la compuși cu valoare adăugată-METABCHEM 528/06.10.2014	Director de proiect	2014-2016	1.250.000 R ON
Programul PNCDI2/Controlul funcțiilor celulelor dendritice cu semnale anti-inflamatoare și de moarte celulară-DC-FANS 615/12.11.2014	Cercetător	2014-2016	1.250.000 R ON
Programul Operational Sectorial Axa 2.1.1./Biopreparate microbiene pentru creșterea calitatii furajelor insilozate-SILOPREP <i>Nr. Contract 565/09.09.2013</i>	Director de proiect	2013-2015	4.739.000 RON

<p>Programul PNCDI2/ Synthesis of some C4, C5 carboxylic acid building block chemicals from renewable biomass resources-BIOBUILD Nr. Contract: 31/2012</p>	Responsabil de proiect	2012-2015	800.000 RON
<p>Programul 4 PNCDI2/ Procedeu de obtinere de bioetanol din deseuri Agroalimentare Tratate cu Enzime Termostabile Recombinate, Obtinute prin Expresie Heterologa Extracelulara – Bio-DesEnEx Nr. Contract: 62-090/01.10.2008</p>	Director de proiect	2008-2011	800.000 RON
<p>Programul 4 PNCDI2/ Cercetari interdisciplinare privind valorificarea energetica a subproduselor din industria laptelui VESPIL Nr. Contract: 31-096/2007</p>	Responsabil de proiect	2007-2010	150.000 RON
<p>Programul 5 INOVARE/ Tehnologie si echipament pentru pasteurizarea laptelui si a smantanii in camp de microunde – MICROPAST Nr. Contract: 88/25.09.2007</p>	Responsabil de proiect	2007-2010	110.000 RON
<p>Programul 5 INOVARE/ Tehnologii inovative de fabricare a produselor lactate functionale in conditii de siguranta alimentara – INOVATEC Nr. Contract: 89/25.09.2007</p>	Responsabil de proiect	2007-2010	151.572 RON
<p>Programul 5 INOVARE/ Cresterea competitivitatii produselor lactate simbiotice fabricate la SC Lactis SRL- Odorheiu Secuiesc prin imbunatatirea calitatii laptelui materie prima si optimizarea si dezvoltarea activitatii de marketing – SINBIOMARK Nr. Contract: 98/28.09.2007</p>	Responsabil de proiect	2007-2010	225.000 RON
<p>Programul 5 INOVARE/ Aplicarea tehnologiilor de preepurare a apelor uzate in reseaua de canalizare – ATARC Nr. Contract: 25/24.09.2007</p>	Responsabil de proiect	2007-2010	91.140 RON
<p>Programul 5 INOVARE/ Conceperea, realizarea si experimentarea unui sistem performant de transfer a oxigenului În reactoare biologice aerate – TEOFIT Nr. Contract: 21/21.09.2007</p>	Responsabil de proiect	2007-2010	113.735 RON

Programul 5 INOVARE/ Sistem informatic de monitorizare si control a statiilor de epurare a apelor uzate prin utilizarea sistemelor distribuite multi-agent si a unor algoritmi avansati de reglare automata – AICSYS <i>Nr. Contract: 30/24.09.2007</i>	Responsabil de proiect	2007-2010	72.700 RON
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Lista de lucrări

NUMELE ȘI PRENUMELE: Albert (Ábrahám) Beáta

I. LISTA COMPLETĂ DE PUBLICAȚII, CREAȚII, INVENȚII

A. Tezele de doctorat.

Evolutia turbăriilor din județul Harghita, 2009, Conducător științific: Dr. Aurelia Brezeanu, Institutul de Biologie al Academiei Române, calificativ: foarte bine

Procedeu de obtinere a bioetanolului din deseuri agroalimentare tratate cu enzime termostabile recombinante, obtinuta prin expresie heterologa extracelulara, 2012, Conducător științific: Dr. Lányi Szabolcs, Universitatea Politehnica București, Facultatea de Chimie Aplicată și Știința Materialelor, calificativ: foarte bine

B. Cărți publicate

B1. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate, la edituri recunoscute

Éva Laslo, Éva György, **Beáta Ábrahám** and Gyöngyvér Mara, *Plant-Microbe Interactions in Agro-Ecological Perspectives, Volume 1: Fundamental Mechanisms, Methods and Functions*, Springer Singapore, 2017, 978-981-10-5813-4, 10.1007/978-981-10-5813-4: Bacterial Strains with Nutrient Mobilisation Ability from Ciuc Mountains (Transylvania Region, Romania)

B2. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în țară, la edituri recunoscute CNCSIS.

B. Abraham, *Evolutia turbăriilor din județul Harghita*, Editura Scientia, 2009, Cluj Napoca, ISBN 978-973-1970-30-1

V. Turcin, I. Bârsan, I. Păună, L. Pușcaș, V. Anca, A. Toma, L. Flore, E. Măgureanu, E. Istrate, M. Vasiliu, I. F. Hăntilă, Sz. Lányi, **B. Abraham** et. al, *Instalație și tehnologii de pasteurizare cu microunde a laptelui și a smântânii*, Editura Printech, 2008, București

B3. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate la alte edituri sau pe plan local.

B6. Capitole de cărți publicate în țară

Sz. Lányi, F. D. Irimie, **B. Abraham**, *Impactul câmpurilor electromagnetice de natură antropică asupra ecosistemelor, Capitol III. P. 107-118*, Editura Printech, 2007, București, ISBN: 978-973-718-912-7

C. Lucrări științifice publicate

C1. Lucrări științifice publicate în reviste cotate ISI

2020

1. Bodor Zs., Fazakas A., Kovács E., Lányi Sz., Albert B., *Using genome-scale model to predict the metabolic engineering impact on Echerichia coli metabolism during succinic acid production optimization*, Romanian Biotechnological Letters (25)3, 1666-1676, ISSN: 1224 - 5984, 2020.

2019

1. Deutch Nagy L., Urbán P., Szebeni H., Albert B., Kocsis B., Kilár F., *Closantel az a potential lipopolysaccharide biosynthesis inhibitor in Shigella sonnei 4303*, Babes-Bolyai, Seria Chemia, ISSN 1224-7154
2. Nagy K., Kovács Z., Salamon P., Orbán Cs., Lányi Sz., Albert B., *Enhanced heterologous expression in E. coli*, Babes-Bolyai, Seria Chemia, ISSN: 1224-7154, 2, 2019
3. Bodor Zs., Lányi Sz., Albert B., Bodor K., Nechifor E., Miklóssy I., *Model driven analysis of the biosynthesis of 1,4-butanediol from renewable feedstocks in Escherichia coli*, Revista de Chimie, ISSN: 2537-5733, 353, 2019.
4. Nagy K., Orbán Cs K., , Albert B., Lányi Sz., *Biosynthesis BIR3 domain of inhibitor of apoptosis proteins*, U.P.B. Sci. Bull., Series B, Vol. 81, Iss. 4, 2019 ISSN 1454-2331, 2019.

2018

1. Both E., Bodor Zs., Albert B., *Effect of microencapsulation on viability and survival in simulated gut conditions of probiotic bacteria*, Romanian Biotechnological Letters, ISSN:1224- 5984, 6, 2018.

2017

1. Pál Salamon, Ildikó Miklóssy, Beáta Albert, Mónika Korodi, Katalin Nagy, Ildikó Bakos, Szabolcs Lányi, Csongor Orbán, *Heterologous expression and purification of recombinant proapoptotic human protein SMAC/diablo with EGFP as fusion partner*, Babes-Bolyai, Seria Chemia, ISSN 1224-7154 LXII,2, 333-34, DOI:10.24193/subchem. (2017)

2. Miklóssy I. Bodor, Z., Sinkler, R., Orbán, K. C., Lányi, S., Albert, B. , *In silico and in vivo stability analysis of a heterologous biosynthetic pathway for 1,4-butanediol production in metabolically engineered E. coli*. Journal of Biomolecular Structure and Dynamics, (2017), <http://dx.doi.org/10.1080/07391102.2016.1198721>

2015

1. Péterffy (Petres), J., Szabó, M., Szilágyi, L., Lányi, Sz., Ábrahám, B.: *Fluorescence of a Histidine-Modified Enhanced Green Fluorescent Protein (EGFP) Effectively Quenched by Copper(II) Ions. Part II. Molecular Determinants*, Journal of Fluorescence, **2015**, (IF: 1.67)
2. Benedek, K., Bálint, J., Salamon, R.V., Kovács, E., Ábrahám, B., Fazakas, CS., Loxdale, H.D., Balog, A.: *Chemotype of tansy (Tanacetum vulgare L.) determines aphid genotype and its associated predator system*, Biological Journal of the Linnean Society, 114, p. 709-719, **2015**, (IF:2.535).
3. Domokos Erzsébet, Biro-Janka Bela, Kovacs Erika, Abraham Beata, Balog Adalbert, *Genetic variability of the green peach aphid (Myzus persicae) populations in different host plant*, North Western Journal of Zoology **11**:(2) pp. 369-371. (2015)
4. Laslo Éva, Mara Gyöngyvér, Funkenhauzer Bernadett, Dobri Emőke, Salamon Rozália Veronika, Lányi Szabolcs, Ábrahám Beáta, *Isolation and screening of lactic acid bacteria from naturally fermented sources with high biotechnological potential*, Babes-Bolyai, Seria Chemia, ISSN 1224-7154 **60**:(4) pp. 95-106. (2015)

2014

1. Bodor, Zs., Fazakas (Iuhasz), A., Kovács, E., Lányi, Sz., Albert, B.: *Biotechnological production of succinic acid from glycerol; the role of co-substrates*, Studia Universitatis Babes-Bolyai, Seria Chemia, ISSN 1224-7154, 55, Iss. 2, **2014**, pp.33-35. (IF:0.089)
2. Bodor, Zs., Fazakas (Iuhasz), A., Kovács, E., Lányi, Sz., Albert, B.: *Systems biology and metabolic engineering for obtaining E. coli mutants capable to produce succinate from renewable resources*, Romanian Biotechnological Letter, ISSN 1224-5984, 19, Nr. 4, **2014**, pp.9625-9636. (IF:0.363)
3. Bodor, Zs., Fazakas (Iuhasz), A., Kovács, E., Lányi, Sz., Albert, B.: *Systems biology in biochemistry and sustainable biotechnology: succinic acid from renewable resources by Escherichia coli*, Revista de Chimie, in curs de publicare. (IF: 0.538)
4. Fazakas A., Bodor Zs., Kovacs E., Laslo E., Lanyi Sz., **B. Abraham**, *Isolation of succinic acid producing Escherichia coli from animal faeces*, Studia Universitatis "Babes Bolyai", Seria Chemia , 2014, acceptat, (IF: 0.231; EF: 0.000525; AI: 0.0113)
5. Gyenge, B. Ráduly, S. Crognale, Sz. Lányi, **B. Ábrahám**: *Cultivating conditions optimization of the anaerobic digestion of corn ethanol distillery residuals using response surface methodology*, Central European Journal of Chemistry, 2014, acceptat, (IF 1.16)

8. Gyenge, L., Ráduly, B., Crognale, S., Stazi, S. R., Lányi, Sz., Ábrahám, B.: Evaluation of two different inocula for biogas production from corn bioethanol by-products. *Environmental Engineering and Management Journal*, ISSN 1582-9596, 2014, (IF: 1.117)

2013

1. Szilveszter, Sz., Raduly, B., **Ábrahám, B.** Lányi Szabolcs, *In Situ Imaging of Biopolymers and Extracellular Enzymes in Activated Sludge Flocs of a Municipal Wastewater Treatment Plant*, *J Chem Technol Biot, JCTB-12-0545*, 2013, Jun 4. (IF: 2.168, SRI: 1.63; EF: 0.010492; AI: 0.52)
2. Kovács E., Szilágyi L., Koncz G., Lányi Sz., Ábrahám B., Enhanced in vitro refolding of soluble human Glucocorticoid-Induced TNF Receptor- Related Ligand, 2013, *Appl Biochem Biotechnol.* 2013 Jun;170 (4):819-30 IF: 1,93
3. Bálint, E.É., Petres, J., Szilágyi, L., Orbán, K.Cs., **Ábrahám, B.**, *Fluorescence of a histidine-modified Enhanced Green Fluorescent Protein (EGFP) effectively quenched by copper(II) ions.* *Journal of Fluorescence*, ISSN 1573-4994, 2013, (IF: 2.107 , SRI: 1.373; EF: 0.006613; AI: 0.6153)

2012

1. Laslo, É., György, É., Mara, Gy., Tamás, É., **Ábrahám, B.**, Lányi, Sz.: *Screening of plant growth promoting rhizobacteria as potential microbial inoculants*, *Crop Protection* 40, p.43-48, ISSN: 0261-2194, 2012, (IF:1.402, SRI:1.39; EF: 0.008022; AI: 0.46)
2. Gálicza, J., Vargová, A., Sándor, V., Orbán, K.Cs., András, Cs.D., **Ábrahám, B.**, Lányi, Sz., Kilár, F., *Preparation and investigation of bioactive transferrin-iron complexes formed with different synergistic anions*, *The Protein Journal*, 31, 27–34, ISSN 1572-3887, 2012, (IF: 1.038, EF: 0.001445; AI: 0.27)
3. Szabó (Pálfi), M., Petres, J., Szilágyi, L., Miklóssy, I., **Ábrahám, B.**, Lányi, Sz.: *Possible application of metal sensitive re fluorescent proteins in environmental monitoring.* *Environmental Engineering and Management Journal*, 11 (1), 193-198, 2012, (IF: 1; EF: 0.000525; AI: 0.0665)
4. Szilveszter, Sz., Raduly, B., Bucs, Sz., **Ábrahám, B.**, Lányi, Sz., Robescu, N., *Activated Sludge Floc Characterization by Confocal Laser Scanning Microscopy*, *EEMJ*, 11 (3): 669-674, 2012 (I.F: 1; EF: 0.000525; AI: 0.0665)
5. **Ábrahám, B.**, Orbán, K.Cs., András, Cs.D., Salamon, R., Dima, R., Lányi, Sz. *Methanol concentration determination in Pichia fermentation systems. Cheap, online alcohol sensor*, *Studia Universitatis Babes Bolyai Seria Chemia*, ISSN 1224-7154, 2012, (IF: 0.231; EF: 0.000525; AI: 0.0113), acceptat.
6. Szabó (Pálfi), M., Bálint, E., Miklóssy, I., Szilágyi, L., **Ábrahám, B.**, Lányi, Sz.: *Comparative study of green fluorescent protein mutants*, *Studia Universitatis Babes-Bolyai Chemia*, ISSN 1224-7154, 2012 (IF: 0.231, EF: 0.000525; AI: 0.0113), acceptat.

7. Miklóssy, I., Orbán, K.Cs., Bálint, E., **Ábrahám, B.**, Lányi, Sz., *Contributions to re-designing specificity of the ancestral proteinase stemzyme-IDP- β* , *Studia Universitatis Babes-Bolyai Chemia*, ISSN 1224-7154, 2012 (IF: 0.231, EF: 0.000525; AI: 0.0113), acceptat.

2010

1. Andras, CD; Csajagi, C; Orban, CK; Albert, C; **Abraham, B**; Miklossy, I, *A possible explanation of the germicide effect of carbon dioxide in supercritical state based on molecular-biological evidence*. *Medical Hypotheses*, ISSN 0306-9877, 74 (2), pp. 325-329, 2010, (IF: 1.150; EF: 0.0127; AI: 0.3208)
2. Szilveszter, S; Ráduly, B; **Ábrahám, B.**, Lányi, Sz., Niculae, *Mathematical models for domestic biological wastewater treatment process*, *Environmental Engineering and Management Journal*, 9, 5, 629-636, 2010 (IF:1; EF: 0.000525; AI: 0.0113)
3. Bálint, E., Miklóssy, I., **Ábrahám, B.**, Szilágyi, L., Lányi, Sz., *Heterologous expression of Granzyme H in Escherichia coli*. *Studia Universitatis Babes-Bolyai Chemia*, ISSN 1224-7154, (Special Issue): p. 5-9, 2010, (IF: 0.231, EF: 0.000525; AI: 0.0113)
4. Bodor, Zs., Orbán, K.Cs., Miklóssy, I., Juhász K., **Ábrahám, B.**, Lányi, Sz., *Heterologous expression of Bacillus Licheniformis α -amylase in Pichia pastoris*, *Studia Universitatis "Babeş Bolyai"*, *Seria Chemica*, 55, Special Issue 9-22, 2010 (I.F.=0.231, EF: 0.000525; AI: 0.0113)
5. Both, E., György É., **Ábrahám, B.**, Miklóssy, I., Lányi, Sz., *Selection of lactic acid bacteria isolated from traditionally manufactured cheeses*, *Studia Universitatis "Babeş Bolyai"*, *Seria Chemica*, Special Issue 23-30, 2010 (I.F.=0.231; EF: 0.000525; AI: 0.0113)
6. Gálicza, J., Orbán, K.Cs., Kilár, F., Miklóssy, I., **Ábrahám, B.**, Lányi, Sz. *Preparation and modelling of the structure of transferrin-Fe³⁺-aziridine-carboxylate complex*, *Studia Universitatis "Babeş Bolyai"*, *Seria Chemica*, Special Issue 45-52, ISSN 1224-7154, 2010, (I.F.=0.231; EF: 0.000525; AI: 0.0113)
7. Kovács, E., Szabó, M., Miklóssy, I., Szilágyi, L., **Ábrahám, B.**, Lányi, Sz., *Purification and cleaving of the human GITRL expressed as fusion protein*, *Studia Universitatis Babes Bolyai Seria Chemica*, 55, Special Issue 81-88. , 2010, (IF: 0.231; EF: 0.000525; AI: 0.0113)
8. Szilveszter, Sz., Ráduly, B., Miklóssy, I., **Ábrahám, B.**, Lányi, Sz., Robescu N.D., *Lab scale sequencing batch reactor (sbr) construction and characterization for dynamic modeling with activated sludge model (ASM)*. *Studia Universitatis Babes-Bolyai Seria Chemica*, Vol. 55 Special Issue, pp 119-133, 2010, (I.F.=0.231; EF: 0.00005; AI: 0.0113)
9. György, É., Mara, Gy., Máthé, I., Laslo, É., Márialigeti, K., **Albert, B.**, Oancea, F., Lányi, Sz.: *Characterization and diversity of the nitrogen fixing microbiota from a spe-*

cific grassland habitat in the Ciuc Mountains, Roumanian Biotechnological Letters, 15, 4, p. 5474-5481, ISSN 1224-5984, 2010 (I.F.=0.219; EF: 0.000164; AI: 0.0333).

2009

1. Both, E., Kibédi Szabó, Cs. Z., György, É., Tamás, É., Miklóssy, I., **Ábrahám, B.**, Lányi, Sz., *Verification of Probiotic Bacterial Properties: Tolerance to Digestive Juices and Adhesion to Epithelial Cells of Lactobacillus acidophilus La-5 and Lactobacillus casei 01*, Studia Universitatis “Babeş Bolyai”, Seria Chemica, Special Issue 2 , p. 27, ISSN 1224-7154, 2009 (IF: 0.089; EF: 0.000525; AI: 0.0665)
2. Harai Molnos, É., Szilveszter, Sz., **Ábrahám, B.**, Nagy, I., Lányi, Sz., Muntean, O., *Biohydrogen Production with Photosynthetic Bacteria*, Studia Universitatis “Babeş Bolyai”, Seria Chemica, Special Issue 2, p. 61, ISSN 1224-7154, 2009, (IF: 0.089, EF: 0.000525; AI: 0.0113)
3. Kapás, Á., **Ábrahám, B.**, András, C. D., Lányi, Sz., Dobre, T. G. *Obtaining and Identification of Bioactive Compounds from Ligularia sibirica (L.) Cass*, Studia Universitatis “Babeş Bolyai”, Seria Chemica, Special Issue 2, p. 21, ISSN 1224-7154, 2009 (IF: 0.089; EF: 0.000525; AI: 0.0113)
4. Kovács, E., Pálfi, M., Miklóssy, I., Szilágyi, L., **Ábrahám, B.**, Lányi, Sz., *Construction of an Expression Vector for the GITRL Protein*, Studia Universitatis Babes Bolyai Seria Chemica, 54, Special Issue 2 : 83-92, 2009 (IF: 0.089; EF: 0.000525; AI: 0.0113)
5. Laslo, É., György É., Mara, G., Tamás É., Máthé, I., **Ábrahám, B.**, Lányi, Sz., *Applied Microbial Technology: Solubilization of Inorganic Phosphate and Producing Siderophore by Isolated Nitrogen Fixing Bacteria*, Studia Universitatis “Babeş Bolyai”, Seria Chemica, Special Issue 2, p. 53, ISSN 1224-7154, 2009 (IF: 0.089; EF: 0.000525; AI: 0.0113)
6. Miklóssy, I., Szilágyi, L., **Ábrahám, B.**, Szilveszter, Sz., Lányi, Sz. *Obtention of the Ancestral Proteinase Stemzyme-IDP- β by Heterologous Expression*, Studia Universitatis “Babeş Bolyai”, Seria Chemica, Special Issue 2, p. 11, ISSN 1224-7154, 2009 (IF: 0.089; EF: 0.000525; AI: 0.0113)
7. Pálfi, M., Kovács, E., Miklóssy, I., Szilágyi, L., **Ábrahám, B.**, Lányi, Sz., *Engineered Green Fluorescent Protein as a Potential Metal Sensor*, Studia Universitatis “Babeş Bolyai”, Seria Chemica, 54, Special Issue 2 35-44., 2009 (IF: 0.089; EF: 0.000525; AI: 0.0113)
8. Szilveszter, Sz., Ráduly, B., Miklóssy, I., **Ábrahám, B.**, Lányi, Sz., D. R. Nicolae, *Enzymatic Activity Studies of Biological Wastewater Treatment*, Studia Universitatis “Babeş Bolyai”, Seria Chemica, Special Issue 2, p. 113, ISSN 1224-7154, 2009 (IF: 0.089; EF: 0.000525; AI: 0.0113)

9. Tamás É., Mara, G., Laslo, É., György É., **Ábrahám, B.**, Lányi, Sz., *Analysis of Biofilm Production, Swarming and Swimming Motility of Pseudomonas Strains*, Studia Universitatis "Babeş Bolyai", Seria Chemica, Special Issue 2, p. 45, ISSN 1224-7154, 2009 (IF: 0.089; EF: 0.000525; AI: 0.0113)

2003

1. A. Văcaru, **B. Albert**, G. Petrăreanu, Sz. Lányi, Ş. Szedlacsek, *Optimisation of the heterologues expression and preliminary characterization of the catalytic domain of protein tyrosine phosphatase PTP-BL*, Rom. J. Biochem, 40, 71-76, 2003

C2. Lucrări științifice publicate în reviste indexate în baze de date internaționale (indicați și baza de date).

2013

1. Bodor, Zs., Fazakas (Iuhasz) A., Lányi Sz., **B. Abraham**, *In silico modelling and metabolic engineering of Escherichia coli to succinic acid*, UPB Scientific Bulletin Series B: Chemistry and Materials Science, ISSN 1454-2331, acceptat, **2013**, Indexat în: SCOPUS, ELSEVIER SCIENCES'S BIBLIOGRAPHIC DATABASES, CAMBRIDGE SCIENTIFIC ABSTRACTS,

2012

2. **Ábrahám, B.**, Orbán, K.Cs., Dima, R., Lányi, Sz., *Heterologous expression of pullulanase from Fervidobacterium pennivorans in E. coli*, UPB Scientific Bulletin Series B: Chemistry and Materials Science, ISSN 1454-2331, acceptat, **2012**, Indexat în: SCOPUS, ELSEVIER SCIENCES'S BIBLIOGRAPHIC DATABASES, CAMBRIDGE SCIENTIFIC ABSTRACTS, etc..
3. Bálint, E., Szilágyi, L., Miklóssy, I., Lányi, Sz., **Ábrahám, B.**, *Design of secretion vector constructs for Granzyme H expression*. UPB Scientific Bulletin Series B: Chemistry and Materials Science, ISSN 1454-2331, 74(1). **2012**, Indexat în: SCOPUS, ELSEVIER SCIENCES'S BIBLIOGRAPHIC DATABASES, CAMBRIDGE SCIENTIFIC ABSTRACTS, etc.
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Oancea Florin, Dinu Sorina, Popescu Ana, Mathe Istvan, **Beata Abraham**, Lanyi Szabolcs, *Tulpina de Paenibacillus graminis care favorizeaza nodularea plantelor leguminoase*, Brevet de inventie Nr. 125651

Oancea Florin, Constantinescu Florica, Dinu Sorina, Siciua Oana, Gyongyver Mara, **Beata Abraham**, Lanyi Szabolcs, *Procedeu de tratare a solului cu microorganisme bio/agroinoculante*, Brevet de inventie, Nr. 125670

Oancea Florin, Siciua Oana, Dinu Sorina, Gyorgy Eva, **Beata Abraham**, Lanyi Szabolcs, *Procedeu de izolare a bacteriilor fixatoare de azot in simbioza din nodozitatile plantelor leguminoase*, Brevet de inventie, Nr. 125669

G. Contracte de cercetare (menționați calitatea de director sau membru)

Proiecte de cercetare, granturi	Functia	Perioada
CEEX/ „Optimizarea moleculara a unei enzimei centrale din calea metabolica a conversiei xilozei.Reactor optimizat pentru transformarea enzimatica a xilozei rezultate din deseurile celulozice” OMEXIL Nr. Contract: 1/06.10.2005	Membru	2005-2008
CEEX/ <i>Retea integrata de cercetare pentru constituirea unei platforme tehnologice de biomateriale avansate, compatibila EuMaT – ADVABIOMAT</i> Nr. Contract: 54/20.07.2007	Membru	2006-2009
CEEX/ <i>Diagnoză și predicție inteligentă și activă a construcțiilor cu structura de rezistență în mediul înconjurător complex poluat – DIRECTOR</i> Nr. Contract: 136/02.10.2006	Membru	2006-2009
CEEX/ <i>“Impactul câmpurilor electromagnetice de natură antropică asupra ecosistemelor – ICEME-COS”</i> Nr. Contract: X2C37/04.10.2006	Membru	2006-2009
CEEX/ <i>Cercetari teoretice si experimentale asupra sistemelor expert de exploatare optima a proceselor tehnologice de epurare a apelor uzate din statiile de epurare orasenesti si industriale – SCAPEAU</i> Nr. Contract: 147/2006	Membru	2006-2009

CEEX/ <i>“Cercetari privind creșterea siguranței alimentare prin utilizarea unor procese neconvenționale de tratare termică a unor produse alimentare lichide”- SIGMA</i> <i>Nr. Contract: 40/01.08.2006</i>	Membru	2006-2009
Programul 4 PNCDI2/ Interactiibio / non-bio implicate in design-ul tesuturilor tari – INTESTA <i>Nr. Contract: 41-059/14.09.2007</i>	Membru	2007-2010
Programul 4 PNCDI2/ Sistem Informatic Integrat, Bazat Pe Inteligenta Artificiala, Pentru Examinarea Cererilor De Brevet De Inventie – EXAMBREV <i>Nr. Contract: 11-076/18.09.2007</i>	Membru	2007-2010
Programul 4 PNCDI2/Cercetari interdisciplinare privind valorificarea energetica a subproduselor din industria laptelui VESPIL <i>Nr. Contract: 31-096/2007</i>	Responsabil de proiect	2007-2010
Programul 5 INOVARE/ Tehnologie Si Echipament Pentru Pasteurizarea Laptelui Si A Smantanii In Camp De Microunde – MICROPAST <i>Nr. Contract: 88/25.09.2007</i>	Responsabil de proiect	2007-2010
Programul 5 INOVARE/ Tehnologii Inovative De Fabricare A Produselor Lactate Functionale In Conditii De Siguranta Alimentara – INOVATEC <i>Nr. Contract: 89/25.09.2007</i>	Responsabil de proiect	2007-2010
Programul 5 INOVARE/ Cresterea Competitivitatii Produselor Lactate Simbiotice Fabricate La SC Lactis SRL- Odorheiu Secuiesc Prin Imbunatatirea Calitatii Laptelui Materie Prima Si Optimizarea Si Dezvoltarea Activitatii De Marketing – SINBIOMARK <i>Nr. Contract: 98/28.09.2007</i>	Responsabil de proiect	2007-2010
Programul 5 INOVARE/ Aplicarea Tehnologiilor De Preepurare A Apelor Uzate In Reteaua De Canalizare – ATARC <i>Nr. Contract: 25/24.09.2007</i>	Responsabil de proiect	2007-2010
Programul 5 INOVARE/ Conceperea, Realizarea Și Experimentarea Unui Sistem Performant De Transfer A Oxigenului În Reactoare Biologice Aerate – TE-OFIT <i>Nr. Contract: 21/21.09.2007</i>	Responsabil de proiect	2007-2010

<p>Programul 5 INOVARE/ Sistem Informatic De Monitorizare Si Control A Statiilor De Epurare A Apelor Uzate Prin Utilizarea Sistemelor Distribuite Multi-Agent Si A Unor Algoritmi Avansati De Reglare Automata – AICSYS <i>Nr. Contract: 30/24.09.2007</i></p>	Responsabil de proiect	2007-2010
<p>Programul 4 PNCDI2/Sistem Bioinformatic Bazat pe Inteligența Artificială pentru Monitorizarea Sistemului Imunitar în Corelație cu Procesele Metabolice din Organismul Uman –MONIMUN <i>Nr. Contract: 62-073/01.10.2008</i></p>	Membru	2008-2011
<p>Programul 4 PNCDI2/ Reproiectarea Specificității Enzimatică prin Evoluție Dirijată. Elaborarea unei Serin-Proteaze Specifice pentru Clivarea C-terminală a Fosfotirozinei. PHOSPHOTYRASE <i>Nr. Contract: 61-027/14.09.2007</i></p>	Membru	2007-2010
<p>Programul 4 PNCDI2/ Inoculanti Microbieni Pentru Sisteme De Agricultura Durabila – MIMOSA <i>Nr. Contract: 31-048/14.09.2007</i></p>	Membru	2007-2010
<p>Programul 4 PNCDI2/ Procedeu de obtinere de bioetanol din deseuri Agroalimentare Tratate cu Enzime Termostabile Recombinate, Obținute prin Expresie Heterologa Extracelulară – Bio-DesEnEx <i>Nr. Contract: 62-090/01.10.2008</i></p>	Director de proiect	2008-2011
<p>Programul 4 PNCDI2/ Elucidarea mecanismului de Reglare Fină a Răspunsului Imun în Patologia Neoplazică și Inflamatorie Umană în vederea Elaborării unor Terapii Inovative – ERIC <i>Nr. Contract: 42-147/01.10.2008</i></p>	Membru	2008-2011
<p>Programul Operational Sectorial Axa 2.1.1/ Bio-preparate microbiene pentru cresterea productivitatii si protectia culturilor agricole- BIOPREP <i>Nr. Contract: 169/16.06.2010</i></p>	Membru	2010-2012
<p>Programul PNCDI2/ Synthesis of some C4, C5 carboxylic acid building block chemicals from renewable biomass resources-BIOBUILD <i>Nr. Contract: 31/2012</i></p>	Responsabil de proiect	2012-2015
<p>Programul Operational Sectorial Axa 2.1.1./Bio-preparate microbiene pentru creșterea calitatii furajelor insilozate-SILOPREP <i>Nr. Contract 565/09.09.2013</i></p>	Director de proiect	2013-2015

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