

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. Lanyi, **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. Lanyi, 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

2025

1. David, F., Salamon, P., Bodor, Z., Miklossy, I., Orban, C., Albert, B., Relationship between physical condition and academic performance in rural Romanian schoolchildren. *Sportis: Revista Técnico-Científica del Deporte Escolar, Educación Física y Psicomotricidad*, 2025, 11(1), 10.

2024

Csató-Kovács, E., Salamon, P., Fikó-László, S., Kovács, K., Koka, A., András-Korodi, M., Antal, E., Brumă, E., Tórsók, B., Gudor, S., Miklóssy, I., Orbán, K. C., Albert, C., Bálint, E. É., Albert, B., Development of a Mammalian Cell Line for Stable Production of Anti-PD-1. Antibodies, 2024, 13(4), 82. <https://doi.org/10.3390/antib13040082>

2023

1. Hunor Pál Fodor, Hunor Dávid, Attila Czont, Ildikó Miklóssy, Kálmán-Csongor Orbán, Gyöngyi Tar, Abony Fodor, Zita Kovács, Beáta Albert and Pál Salamon, Enhanced Gait Recovery in Chronic Post-COVID-19 Stroke: The Role of Combined Physical Rehabilitation, *Reports* 2023, Volume 6, Issue 4, 51

2022

2. Laura Nagy, Péter Urbán, Lilla Makszin, Viktor Sándor, Anikó Kilár, Hajnalka Ábrahám, Beáta Albert, Béla Kocsis, Ferenc Kilár, *The effect of mutation in lipopolysaccharide biosynthesis on bacterial fitness*, *Cells*, 2022, 11, 3249. <https://doi.org/10.3390/cells11203249>
3. Pál Salamon, Csongor K. Orbán, Katalin Molnár-Nagy, Zita Kovács, Klára Váncsa, Emese Bálint, Ildikó Miklóssy, Beáta Albert, Gyöngyi Tar, and Szabolcs Lányi, *Study of native SMAC protein production in the pUbiq expression system: molecular cloning, biosynthesis and molecular modelling*, *Electronic Journal of Biotechnology*, Manuscript number: EJBT-D-21-00069R2, 2022

2021

4. Szövérfi János, Orbán Kálmán-Csongor, **Albert Beáta**, Nagy Katalin, Salamon Pál, Lányi Szabolcs, In vitro study of the CCMV capsid protein: cloning, expression, and purification, *UPB Sci. Bull, Series B*, Vol. 83, Iss.1, 2021

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*, 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.
5. Eva Laslo, Lorand Mathe, Szabolcs Lányi, Beáta Ábrahám, Rozália Veronika Salamon, Kinga Tókos, *Effects of lactic acid bacteria inoculation on mountain grass and alfalfa silage fermentation characteristics.*, Environmental Engineering & Management Journal (EEMJ), Vol 18, Issue 3, 2019. IF 1,18

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/subbchem. (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

5. 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)
6. 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)
7. 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)
8. Fazakas A., Bodor Zs., Kovacs E., Laslo E., Lanyi Sz., **B. Abraham**, *Isolation of succinic acid producing Escherichia coli from animal faeces*, Studia Universitatis "Babeş Bolyai", Seria Chemia , 2014, acceptat, (IF: 0.231; EF: 0.000525; AI: 0.0113)
9. 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)
10. 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

11. 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)
12. 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
13. 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

14. 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)

15. 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)
16. 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)
17. 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)
18. **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.
19. 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.
20. Miklóssy, I., Orbán, K.Cs., Bálint, E., **Ábrahám, B.**, Lányi, Sz., *Contributions to redesigning 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. Harai (Molnos), É., Szilveszter, Sz., **Ábrahám, B.**, Nagy, I., Lányi, Sz., Munteanu, O. *Biohydrogen production with photosynthetic bacteria*. Studia Universitatis Babes-Bolyai Seria Chemia, Vol. 54, Special Issue 2, pp 61-68, 2010, (I.F.=0.231; EF: 0.000525; AI: 0.0113)
7. Gálicza, J., Orbán, K.Cs., Kilar, 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)
8. 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)
9. 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 Chemia, Vol. 55 Special Issue, pp 119-133, 2010, (I.F.=0.231; EF: 0.00005; AI: 0.0113)
10. 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 specific 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

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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

1. **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..
2. 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.

3. Kovács, E., Iuhász, A., Szabó, M., Szilágyi, L., **Ábrahám, B.**, Lányi, Sz., *Efficient re-folding of the recombinant human glucocorticoid-induced TNF-related receptor ligand produced in E. coli as inclusion bodies*, UPB Scientific Bulletin Series B: Chemistry and Materials Science, 74, 1 15-20, **2012**, Indexat în: SCOPUS, ELSEVIER SCIENCES'S BIBLIOGRAPHIC DATABASES, CAMBRIDGE SCIENTIFIC ABSTRACTS, etc.

2011

1. Benedek, T., Máthé, I., Tancsics, A., Márialigeti, K., **Albert, B.**, Lányi, Sz. *Intrinsic bioremediability of petroleum hydrocarbon contaminated sites in Romania: diversity of bacterial community, catechol dioxygenase and alkane-monooxygenase genes*. Scientific Bulletin Series B: Chemistry And Materials Science, 73, 4 51–62, **2011**, Indexat în: SCOPUS, ELSEVIER SCIENCES'S BIBLIOGRAPHIC DATABASES, CAMBRIDGE SCIENTIFIC ABSTRACTS, etc.
2. Laslo, É., György É., Máthé, I., Mara Gy., Tamás É., **Ábrahám, B.**, Lányi, Sz.,: *Replacement of the traditional fertilizer with microbial technology: isolation and characterization of beneficial nitrogen fixing rhizobacteria* Scientific Bulletin Series B: Chemistry And Materials Science, 73, 1, p. 109-114, ISSN 1454-233, **2011**, Indexat în: SCOPUS, ELSEVIER SCIENCES'S BIBLIOGRAPHIC DATABASES, CAMBRIDGE SCIENTIFIC ABSTRACTS, etc.

2010

1. **Ábrahám, B.**, Miklóssy, I., Kovács, E., Tamás, É., Mészáros, I., Szilveszter, Sz., Brezeanu, A., Lányi, Sz., *Genetic Analysis of Pinus sylvestris L. and Pinus sylvestris forma turfosa L. Using RAPD Markers*, Notulae Scientia Biologicae, ISSN 2067-3205, Vol. 2, Nr. 1, p129-132, **2010.**, Indexat în Elton B Stephens Company (EBSCO), Centre for Agriculture and Biosciences International (CABI), ProQuest-CSA (Cambridge Scientific Abstracts), Index Copernicus, etc.
2. Both, E., György, É., Kibédi Szabó, CS. Z., Tamás, É., **Ábrahám, B.**, Miklóssy, I., Lányi, Sz. *Acid and bile tolerance, adhesion to epithelial cells of probiotic microorganisms*, University Politehnica of Bucharest, Scientific Bulletin Series B: Chemistry and Materials Science, 72(2), ISSN 1454-233, 2010, Indexat în: SCOPUS, ELSEVIER SCIENCES'S BIBLIOGRAPHIC DATABASES, CAMBRIDGE SCIENTIFIC ABSTRACTS, etc
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V. Turcin, P. Ion, P. Pencioiu, L. Szabolcs, **B. Abraham**, V. Nikolic, V. Anca, L. Flore, A. Toma, E. Magureanu, *Procedeu si instalatie de procesare termica a laptelui*, Brevet de inventie Nr. 125073

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	Funcția	Perioada
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CEEX/, <i>Optimizarea moleculara a unei enzime centrale din calea metabolica a conversiei xilozei. Reactor optimizat pentru transformarea enzimatica a xilozei rezultate din deseurile celulozice</i> ” 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 – ICEMECOS”</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> Nr. Contract: 40/01.08.2006	Membru	2006-2009
Programul 4 PNCDI2/ <i>Interactiibio / non-bio implicate în design-ul tesuturilor tari – INTESTA</i> Nr. Contract: 41-059/14.09.2007	Membru	2007-2010
Programul 4 PNCDI2/ <i>Sistem Informatic Integrat, Bazat Pe Inteligenta Artificiala, Pentru Examinarea Cererilor De Brevet De Inventie – EXAMBREV</i> Nr. Contract: 11-076/18.09.2007	Membru	2007-2010
Programul 4 PNCDI2/ <i>Cercetari interdisciplinare privind valorificarea energetica a subproduselor din industria laptelui VESPIL</i> Nr. Contract: 31-096/2007	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 Si Experimentarea Unui Sistem Performant De Transfer A Oxigenului In Reactoare Biologice Aerate – TEOFIT <i>Nr. Contract: 21/21.09.2007</i>	Responsabil de proiect	2007-2010
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
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>	Membru	2008-2011
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>	Membru	2007-2010

Programul 4 PNCDI2/ Inoculanti Microbieni Pentru Sisteme De Agricultura Durabila – MIMOSA <i>Nr. Contract: 31-048/14.09.2007</i>	Membru	2007-2010
Programul 4 PNCDI2/ Procedeu de obtinere de bioetanol din deseuri Agroalimentare Tratate cu Enzime Termostabile Recombinate, Obținute prin Expresie Heterologa Extracelulara – Bio-DesEnEx <i>Nr. Contract: 62-090/01.10.2008</i>	Director de proiect	2008-2011
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>	Membru	2008-2011
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Programul PNCDI2/ Synthesis of some C4, C5 carboxylic acid building block chemicals from renewable biomass resources-BIOBUILD <i>Nr. Contract: 31/2012</i>	Responsabil de proiect	2012-2015
Programul Operational Sectorial Axa 2.1.1./Bio-preparate microbiene pentru creșterea calitatii furajelor insilozate-SILOPREP <i>Nr. Contract 565/09.09.2013</i>	Director de proiect	2013-2015

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