

Lista de lucrări în domeniul de știință definit de disciplinele din postul scos la concurs

NUMELE ȘI PRENUMELE: Kovács Erika

I. LISTA PUBLICAȚIILOR RELEVANTE

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 (2010): 81-88. IF: 0.231

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 (2009): 83-92. IF: 0.089

Pálfi M., **Kovács E.**, Miklóssy I., Szilágyi L., Ábrahám B., Lányi Sz., Engineered Green Fluorescent Protein as a Potential Metal Sensor, *Studia Universitatis Babes Bolyai Seria Chemica*, 54, Special Issue 2 (2009): 35-44. IF: 0.089

II. LISTA COMPLETĂ DE PUBLICAȚII, CREAȚII, INVENȚII

A. Teza de doctorat.

Expresia heterologă și purificarea proteinei GITRL, un potențial marker tumoral

Conducătorul tezei: Prof. Dr.Ing. Lányi Szabolcs

Universitatea Politehnica din București

C. Lucrări științifice publicate

C1. Lucrări științifice publicate în reviste cotate ISI

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 (2010): 81-88. IF: 0.231

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 (2009): 83-92. IF: 0.089

Pálfi M., **Kovács E.**, Miklóssy I., Szilágyi L., Ábrahám B., Lányi Sz., Engineered Green Fluorescent Protein as a Potential Metal Sensor, *Studia Universitatis Babes Bolyai Seria Chemica*, 54, Special Issue 2 (2009): 35-44. IF: 0.089

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

Kovács E., Iuhasz A., Szabó M., Szilágyi L., Ábrahám B., Lányi Sz., Efficient refolding of the recombinant human glucocorticoid-induced TNF-related receptor ligand produced in E. coli as inclusion bodies, UNIVERSITY POLITEHNICA OF BUCHAREST, SCIENTIFIC BULLETIN SERIES B: CHEMISTRY AND MATERIALS SCIENCE, 74, 1 (2012): 15-20.

Pálfi M., Kovács E., Szilágyi L., Miklóssy I., Ábrahám B., Lányi Sz., Fluorescence quenching analysis of histidine-tagged enhanced green fluorescent protein, *UNIVERSITY POLITEHNICA OF BUCHAREST, SCIENTIFIC BULLETIN SERIES B: CHEMISTRY AND MATERIALS SCIENCE*, 72, 2 (2010): 45-52. ISSN 1454-233[Ulrich S International Periodicals Directory, Scopus, Cambridge Scientific Abstracts]

C4. Lucrări științifice publicate în reviste din țară, recunoscute CNCSIS (altele decât cele din baze de date internaționale).

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*, 2, 1 (2010): 129-132.

Kovács E., Szabó M., Szilágyi L., Miklóssy I., Ábrahám B., Lányi Sz., A humán GITRL heterológ expressziója bakteriális rendszerben, *TECHNICAL REVIEW*, 52 (2010): 21-27.

Szabó M., Kovács E., Szilágyi L., Miklóssy Ildikó, Ábrahám Beáta, Lányi Sz., Zöld fluoreszcens fehérje irányított mutagenézise és a mutáció hatásának vizsgálata, *TECHNICAL REVIEW*, 52 (2010): 44-50.

C5. Lucrări științifice publicate în reviste, altele decât cele menționate anterior

Pálfi M., Kovács E., Szilágyi L., Miklóssy I., Ábrahám B., Lányi Sz., Egy „világító” fehérje alkalmazási lehetőségei a környezeti biomonitoringban, *Csiki Székely Múzeum Évkönyve*, (2010): 517-522.

C6. Lucrări științifice publicate în volumele manifestărilor științifice

Albert Cs., Kovács E., Lányi Sz., Csapó J., Salamon Sz., Csapó J., A mikrohullámú pasztörözés hatása a tej összetételére II. B1-, B2-, B6-, B12- és C-vitamin-, hasznosítható lizin-, lizinoalanin-, hidroximetil-furfurol-tartalom, XIV.th INTERNATIONAL CONFERENCE OF CHEMISTRY, 2008 nov. 13-15, *XIV.th INTERNATIONAL CONFERENCE OF CHEMISTRY*, 2008, 35-38.

Gálicza J., Szép, S., András Cs., Ábrahám B., Miklóssy I., Kovács E., Lányi Sz., Lignocellulóz tartalmú hulladékokból származó xilóz biokonverziója biokémiai szintézisekhez szükséges nyersanyagokká, XIV.th INTERNATIONAL CONFERENCE OF CHEMISTRY, 2008 nov. 13-15, *XIV.th INTERNATIONAL CONFERENCE OF CHEMISTRY*, 2008, 54-61.

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

1. Programul 4 PNCDI2/ Elucidarea mecanismului de Reglare Fină a Răspunsului Imun în Patologia Neoplazică și Inflamatorie Umană în vederea Elaborării unor Terapii Inovative – ERIC, 2008-2011, membru
2. Programul 4 PNCDI2/ Procedeu de obtinere de bioetanol din deseuri Agroalimentare Tratate cu Enzime Termostabile Recombinante, Obținute prin Expresie Heterologă Extracelulară – Bio-DesEnEx, 2008-2011, membru

3. Programul 4 PNCDI2/ Reproiectarea Specificității Enzimatică prin Evoluție Dirijată. Elaborarea unei Serin-Proteaze Specifice pentru Clivarea C-terminală a Fosfotirozinei. PHOSPHOTYRASE, 2008-2011, membru
4. Programul 4 PNCDI2/Sistem Bioinformatic Bazat pe Inteligența Artificială pentru Monitorizarea Sistemului Imunitar în Corelație cu Procesele Metabolice din Organismul Uman –MONIMUN, 2008-2011, membru
5. Programul 4 PNCDI2/ Tehnologii pentru producerea de alimente cu conținut optim de seleniu – TOPAS, 2007-2010, membru
6. Programul 4 PNCDI2/ Inoculanți microbieni pentru sisteme de agricultură durabilă – MIMOSA, 2007-2010, membru

K. Alte realizări semnificative.

Participări la conferințe naționale și internaționale

Fazakas (Iuhász) A., Bodor Zs., **Kovács E.**, Lányi Sz., Ábrahám B., Screening of best glycerol utilizing *Escherichia coli* strains for succinate production, XVIII.th INTERNATIONAL CONFERENCE OF CHEMISTRY, Băile Felix, 22-25 nov. 2012.

Ábrahám B., Orbán K. Cs., **Kovács E.**, Szilágyi L., Lányi Sz. Dima R., Heterologous expression of Photobacterium halotolerans pullulanase in *Escherichia coli*, XVIII.th INTERNATIONAL CONFERENCE OF CHEMISTRY, Băile Felix, 22-25 nov. 2012.

Orbán K. Cs., Ábrahám B., Crognale S., **Kovács E.**, Lányi Sz., Identification and isolation of new amylase from halophilic *Photobacterium sp.*, 7th Chemical Engineering Conference for Collaborative Research for Eastern European Countries, Corfu, Grecia, 27 apr. – 1 may 2012

Kovács E., Iuhász A., Szilágyi L., Pálfi M., Petres J., Lányi Sz., Ábrahám B., Construction of an expression vector for periplasmic secretion of human GITRL, XVII.th INTERNATIONAL CONFERENCE OF CHEMISTRY, Cluj Napoca, 3-6 nov. 2011.

Kovács E., Szabó M., Szilágyi L., Ábrahám B., Lányi Sz., Efficient refolding of the recombinant human glucocorticoid-induced TNF receptor-related ligand produced in *E. coli* as inclusion bodies, 17th ROMANIAN INTERNATIONAL CONFERENCE ON CHEMISTRY AND CHEMICAL ENGINEERING, Sinaia, 7-10 sept. 2011.

Szabó P. M., **Kovács E.**, Petres J., Miklóssy I., Ábrahám, B., Lányi, Sz., Analysis of fluorescent proteins' metal sensitivity, 17TH ROMANIAN INTERNATIONAL CONFERENCE ON CHEMISTRY AND CHEMICAL ENGINEERING, Sinaia, 7-10 sept. 2011.

Szabó P. M., **Kovács E.**, Szilágyi L., Miklóssy I., Ábrahám B., Lányi Sz., Possible application of metal sensitive red fluorescent proteins in environmental monitoring, 6th. INTERNATIONAL CONFERENCE ENVIRONMENTAL ENGINEERING AND MANAGEMENT, Balatonalmády, Hungary, 1-4 sept. 2011.

Kovács E., Szabó M., Szilágyi L., Miklóssy I., Ábrahám B., Lányi Sz., Biosynthesis of the extracellular domain of human GITRL, 4th EUROPEAN CONFERENCE ON CHEMISTRY FOR LIFE SCIENCES, Budapest, Hungary, 31 aug – 3 sept. 2011.

Kovács E., Pálfi M., Miklóssy I., Szilágyi L., Ábrahám B., Lányi Sz., Purification and cleaving of the human GITRL expressed as fusion protein, XVI.th INTERNATIONAL CONFERENCE OF CHEMISTRY, Cluj Napoca, 11-14 nov. 2010.

Pálfi M., **Kovács E.**, Szilágyi L., Miklóssy I., Ábrahám B., Lányi Sz., Characterization of GFP mutants, XVI.th INTERNATIONAL CONFERENCE OF CHEMISTRY, Cluj Napoca, 11-14 nov. 2010.

Kovács E., Pálfi M., Szilágyi L., Ábrahám B., Miklóssy I., Lányi Sz., Expression of the extracellular region of human GITRL as fusion protein, CHEMICAL ENGINEERING DAYS'10, Veszprém, Hungary, 27-29 apr. 2010.

Pálfi M., **Kovács E.**, Szilágyi L., Miklóssy I., Ábrahám B., Lányi Sz., Obtaining and characterization of metal binding green fluorescent protein mutants, CHEMICAL ENGINEERING DAYS'10, Veszprém, Hungary, 27-29 apr. 2010.

Kovács E., Pálfi M., Bálint E., Szilágyi L., Miklóssy I., Ábrahám B., Lányi Sz., Comparison of the human GITRL production in diverse bacterial expression system, CONFERINȚA ZILELE ȘTIINȚEI, ASOCIAȚIA MUZEULUI ARDELEAN, Cluj Napoca, 20 nov. 2010.

Pálfi M., **Kovács E.**, Miklóssy I., Ábrahám B., Lányi Sz., The modified GFP can serve as a receptor and reporter molecule in the same time?, CONFERINȚA ZILELE ȘTIINȚEI, ASOCIAȚIA MUZEULUI ARDELEAN, Cluj Napoca, 20 nov. 2010.

Kovács E., Pálfi M., Miklóssy I., Szilágyi L., Ábrahám B., Lányi Sz., Construction of an Expression Vector for the GITRL 15TH INTERNATIONAL CONFERENCE OF CHEMISTRY, Târgu Mureș, 12-15 nov. 2009

Bodor Zs., **Kovács E.**, Miklóssy I., Ábrahám B., Bálint E.-É., Orbán K. Cs., Tamás É., Szilveszter Sz., Lányi Sz., Heterologous expression of alpha-amylase in *Pichia pastoris*, 15TH INTERNATIONAL CONFERENCE OF CHEMISTRY, Târgu Mureș, 12-15 nov. 2009.

Ábrahám B., Miklóssy I., Pálfi M., **Kovács E.**, Lányi Sz., Heterologous expression of pullulanase from *Fervidobacter pennivorans* in *E. coli*, 16TH ROMANIAN INTERNATIONAL CONFERENCE ON CHEMISTRY AND CHEMICAL ENGINEERING, Sinaia, 9-12 sept. 2009.

Pálfi M., *Kovács E.*, Szilágyi L., Miklóssy I., Ábrahám B., Lányi Sz., Fluorescence quenching analysis of histidine-tagged enhanced green fluorescent protein, 16TH ROMANIAN INTERNATIONAL CONFERENCE ON CHEMISTRY AND CHEMICAL ENGINEERING, Sinaia, 9-12 sept. 2009.

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Semnătura,

