

Curriculum vitae

Informații personale

Nume/Prenume	Both Emese
Adresa	Gârciu nr.171, com. Racu
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Funcția și locul de muncă (universitatea, facultatea, catedra) Sef lucrări, Universitatea „Sapientia” din municipiul Cluj-Napoca, Facultatea de Științe Economice, Socio-Umane și Inginerești, Departamentul de Bioinginerie

Educație și formare

Instituția	Perioada	Titlul obținut
Universitatea Politehnică București, Facultatea de Chimie Aplicată și Știința Materialelor, București	2008-2011	Doctor în inginerie chimică
Universitatea Sapientia, Ingineria produselor alimentare, Miercurea Ciuc	2003-2008	Inginer
Liceul Teoretic Márton Áron, Miercurea-Ciuc	1998-2003	Bacalaureat

Experiența profesională

Funcția	Perioada	Instituția
Şef lucrări	2016- prezent	Universitatea Sapientia, Facultatea de Științe, Catedra de Bioinginerie

Alte funcții deținute (nedidactice)

Asistent de cercetare	2011-2012 2008-2009	Universitatea Sapientia, Facultatea de Științe, Catedra de Bioinginerie
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Limbi străine cunoscute

Engleza: nivel intermediar/nivel autonom

Germana: nivel de bază/nivel de bază

Activitatea didactică (cursuri, seminarii, lucrări practice conduse)

Disciplina	Perioada		
	Curs	Lucrări practice	Proiecte
Biochimie I		2008, 2019-prezent	
Chimie generală		2016-2022	
Chimie organică		2016-prezent	
Chimia produselor naturale	2016-prezent	2011, 2016-prezent	
Bazele biochimice ale nutriției umane			2011
Biotehnologie alimentară		2012, 2019, 2023	

Domeniul de cercetare

Biotehnologie alimentara, microbiologie, chimie aplicata

Activitate de cercetare, granturi

1. TEHNOLOGII INOVATIVE DE CONSERVARE SI UTILIZARE A BACTERIILOR LACTICE PROBIOTICE CU PERFORMANTE BIOTEHNOLICOARE SUPERIOARE PENTRU CRESTEREA SIGURANTEI ALIMENTARE INCTEC- PNCDI II 61-001/ 2007 (2007-2010), cercetător
2. REPROIECTAREA SPECIFICITATII ENZIMATICE PRIN EVOLUTIE DIRIJATA: ELABORAREA UNEI SERIN PROTEAZE SPECIFICE PENTRU CLIVAREA C TERMINALA A FOSFOTIROZINEI- PHOSPHOTYRASE 61-027/2007 (2007-2010), cercetător
3. BIOPREPARATE MICROBIENE PENTRU CRESTEREA PRODUCTIVITATII SI PROTECTIA CULTURILOR AGRICOLE /BIOPREP (2009-2012), cercetător
4. Programul 4 PNCDI2/ BIOPREPARATE MICROBIENE PENTRU CRESTEREA PRODUCTIVITATII SI PROTECTIA CULTURILOR AGRICOLE MIMOSA (2007-2010), cercetător

Membru în organizații științifice și profesionale

Membru: Societatea Maghiară Tehnico-Ştiințifică din Transilvania – EMT

Membru în colective de redacție (de specialitate)

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 Chemia, Special Issue 2 , p. 27-33, ISSN 1224-7154, 2009. IF 0,244.
2. 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 Chemia, Special Issue p. 23-30, 2010. IF 0,244.
3. Both, E., Bodor, Zs., Albert, B., Effect of microencapsulation on viability and survival in simulated gut conditions of probiotic bacteria, Romanian Biotechnological Letters, 23/6, p.141400-141405, DOI 10.26327/RBL2018.227, 2018. IF 0,404.
4. 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), p. 37-44, ISSN 1454-233, 2010.
5. Both, E., Gyenge, L., Bodor, Zs., Ábrahám, B., Intensification of probiotic microorganisms viability by microencapsulation using ultrasonic atomizer, University Politehnica of Bucharest, Scientific Bulletin Series B: Chemistry and Materials Science, 74(1), p. 27-32, ISSN 1454-233, 2012.
6. Both, E., György, É., Ábrahám, B., Lányi, Sz., Beneficial effects of probiotic microorganisms. A review, Acta Universitatis Sapientiae, Alimentaria, 4, p. 44-58, ISSN 1844-7449, 2011.

7. Both, E., Probiotikus tulajdonsággal rendelkező tejsavbaktériumok antibakteriális hatása, Műszaki Szemle, 72, p.3-7, 2018.
8. Szulczer-Balog V., Salamon P., Both E., A probiotikus baktériumok antibiotikum rezisztenciája, Műszaki Szemle, 83, p. 41-44, 2023.

Referent științific

Citări Google Scholar:

1. Both E., Gyenge L., Bodor Zs., György É., Lányi Sz., Ábrahám B.: Intensification of probiotic microorganisms viability by microencapsulation using ultrasonic atomizer *in* UPB Scientific Bulletin, Series B: Chemistry and Materials Science 74/1, 2012

Citări:

1. D. Campos, F. Acevedo, E. Morales, J. Aravena, V. Amiard, M. Jorquera, N. Inostroza, M. Rubilar: Microencapsulation by spray drying of nitrogen-fixing bacteria associated with lupin nodules *in* World Journal of Microbiology and Biotechnology (Formerly MIRCEN Journal of Applied Microbiology and Biotechnology) 30(9) · May 2014.
2. Daniela C. Campos, Francisca Acevedo, Eduardo Morales, Javiera Aravena, Véronique Amiard, Milko A. Jorquera, Nitza G. Inostroza, Mónica Rubilar: Microencapsulation by spray drying of nitrogen-fixing bacteria associated with lupin nodules, World Journal of Microbiology and Biotechnology, Sept. 2014, Volume 30, Issue 9, pp 2371–2378
3. Kavita. R. Pandey, Suresh. R. NaikBabu. V. Vakil: Probiotics, prebiotics and synbiotics-a review, Journal of Food Science and Technology, Dec. 2015, Volume 52, Issue 12, pp 7577–7587
4. Bryshila Lupo Pasin, Carmen González Azón, Alicia Maestro Garriga: Microencapsulation in alginate for food. Technologies and applications, Revista Venezolana de Ciencia y Tecnología de Alimentos. 3 (1): 130-151. Enero-Junio, 2012
5. V. Jayalalitha: Microencapsulation of Probiotics to Prepare Functional Dairy Products, Probiotics in Sustainable Food Production: Current Status and Future Prospects - Probiotic Foods, 2013
6. J Jeżewska-Frąckowiak, K Seroczyńska, J. Banaszczyk, G. Jedrzejczak, A. Żylicz-Stachula, P. Mariusz Skowron: The promises and risks of probiotic *Bacillus* species, Acta Biochimica Polonica, 65/4, 2018

2. Both E., György É., Kibédi Sz. Cs., Tamás É., Miklóssy I., Ábrahám B., Lányi Sz.: Acid and bile tolerance, adhesion to epithelial cells of probiotic microorganisms *in* UPB Scientific Bulletin, Series B: Chemistry and Materials Science 72/2, 2010

Citări:

1. Elnaz Vaghef-Mehrabany, Aziz Homayouni Rad, Beitullah Alipour , Leila Vaghef-Mehrabany , Maryam Saghafi Asl: Formulation and Design of Probiotic Supplements for Rheumatoid Arthritis Patients, Mar 2018. doi: 10.15171/PS.2018.08
2. Beitullah Alipour, Aziz Homayouni-Rad Elnaz Vaghef-Mehrabany Sakineh Khatoun Sharif Leila Vaghef-Mehrabany Mohammad Asghari-Jafarabadi Mohammad Reza Nakhjavani Javad Mohtadi-Nia: Effects of Lactobacillus casei supplementation on disease activity and inflammatory cytokines in rheumatoid arthritis patients: a randomized double-blind clinical trial, Mar 2014. doi: 10.1111/1756-185X.12333
3. M.P. Arena, P. Russo, V. Capozzi, A. Rascon, G. Felis, G. Spano, D. Fiocco: Combinations of cereal β -glucans and probiotics can enhance the anti-inflammatory activity on host cells by a synergistic effect, May 2016. DOI: 10.1016/j.jff.2016.02.015
4. E. Vaghef-Mehrabany, A. Homayouni-Rad, B. Alipour, S. Alipour-Aliyi: Effects of Probiotic Supplementation on Oxidative Stress Indices in Women with Rheumatoid Arthritis: A Randomized Double-Blind Clinical Trial in Journal of the American College of Nutrition Apr. 2015
5. M. Abbas, A. Mahasneh: Functional Characteristics of Lactobacillus Strains Isolated from Camel's Milk, Jan 2015. DOI: 10.9734/BJMMR/2015/15287
6. M.P. Arena, G. Caggianiello, D. Fiocco, P. Russo, M. Torelli, G. Spano, V. Capozzi: Barley β -Glucans-Containing Food Enhances Probiotic Performances of Beneficial Bacteria in International Journal of Molecular Sciences 15(2):3025-39 · February 2014. DOI: 10.3390/ijms15023025 · Source: PubMed
7. E. Vaghef-Mehrabany, B. Alipour, A. Homayouni-Rad, S. Zavvari: Probiotic supplementation improves inflammatory status in patients with rheumatoid arthritis in Nutrition 30(4) · December 2013. DOI: 10.1016/j.nut.2013.09.007 · Source: PubMed
8. I. Frola, M. Pellegrino, G. Magnano, et. al: Histological examination of non-lactating bovine udders inoculated with Lactobacillus perolens CRL 1724 in Journal of Dairy Research 80(1):1-8 · November 2012. DOI: 10.1017/S0022029912000581 · Source: PubMed.

9. P. Balgir et al: In Vitro and In Vivo Survival and Colonic Adhesion of Pediococcus acidilactici MTCC5101 in Human Gut. September 2013. DOI: 10.1155/2013/583850 · Source: PubMed.
10. S. Ghaderian et al.: Probiotic Therapy, What is the most Effective Method for Host Protection Against Enteric Pathogen in Int J Enthric Pathol 1(2): 36-42, Nov 2013.
11. B. Alipour, A Homayouni, E. Vaghef-Mehrabany, S. Sharif, L. Vaghef-Mehrabany, M. Jafarabadi, M. Rakhjavani, J. Mohtadi-Nia: Effects of Lactobacillus casei supplementation on disease activity and inflammatory cytokines in rheumatoid arthritis patients: A randomized double-blind clinical trial in International Journal of Rheumatic Diseases 17(5) · March 2014. DOI: 10.1111/1756-185X.12333
12. M. Arena, P. Russo, V. Capozzi, G. Spano: Probiotic abilities of riboflavin-overproducing Lactobacillus strains: A novel promising application of probiotics in Applied Microbiology and Biotechnology 98(17) · June 2014. DOI: 10.1007/s00253-014-5837-x · Source: PubMed.
13. S. Rashid, S. Hassanshahian: Screening, Isolation and Identification of Lactic Acid Bacteria From a Traditional Dairy Product of Sabzevar, Iran in Int J Enthric Pathol 2(4) e18393, Nov 2014.
14. M. Junjua, N. Kechaou, F. Chain et al.: A large scale in vitro screening of Streptococcus thermophilus strains revealed strains with a high anti-inflammatory potential in LWT- Food Science and Technology 70 · February 2016. DOI: 10.1016/j.lwt.2016.02.006.
15. M. Pia Arena, P. Russo, V. Capozzi, D. Fiocco: Combinations of cereal β-glucans and probiotics can enhance the anti-inflammatory activity on host cells by a synergistic effect, May 2016 DOI 10.1016/j.jff.2016.02.015.
16. E. Vaghef-Mehrabany, L. Vaghef-Mehrabany, M. Asghari-Jafarabadi3, A. Homayouni-Rad, K. Issazadeh, B. Alipour: Effects of probiotic supplementation on lipid profile of women with rheumatoid arthritis: A randomized placebo-controlled clinical trial, in: Health Promotion Perspectives, 2017, 7(2), 95-101.
17. S.M.H. Ghaderian: Probiotic Therapy, What is the most Effective Method for Host Protection Against Enteric Pathogen, November 2013 DOI10.17795/ijep13289
18. Lavanya Ananthanarayananana, Aparna Dubhashi: Study of Probiotic Attributes of two isolates Bacillus aerius and Bacillus cereus, International Journal of Research Studies in Biosciences (IJRSB) Volume 4, Issue 4, April 2016.
19. Adel M. Mahasneh, Muna M. Abbas: Probiotics: The possible alternative to disease chemotherapy, Microbial Biotechnology, 2014.

20. Gongora HG.: Optimización de los procesos de ensilado a partir de residuos de la industria pesquera y evaluación de nuevas aplicaciones en la alimentación animal, oceandocs.org, 2013.
21. G Caggianiello: Polyphasic characterization of exopolysaccharides produced by Lactobacillus plantarum Lp90 strain, fair.unifg.it, 2015.
22. Murlidhar Meghwal, Megh R. Goyal: Application of Probiotic and Prebiotic for Human Health (Book Chapter) in Food Engineering Emerging Issues, Modeling, and Applications, 2016
23. AM Mahasneh, MM Abbas: Probiotics (Book Chapter) in Microbial Biotechnology: Progress and Trends, 2014.

3. Both, E., György, É., Ábrahám, B., Lányi, Sz.: Beneficial effects of probiotic microorganisms. A review, Acta Universitatis Sapientiae, Alimentaria, 4, p. 44-58, ISSN 1844-7449, 2011

Citări:

1. S.M.H. Ghaderian: Probiotic Therapy, What is the most Effective Method for Host Protection Against Enteric Pathogen, November 2013 DOI10.17795/ijep13289
2. Jawad Kadhim Isa, Seyed Hadi Razavi: The Use of Lactobacillus acidophilus and Bifidobacterium animalis ssp. Lactis BB12, as Probiotics to Reduce the Risk of Food Poisoning in Minced Meat, Applied Food Biotechnology, Vol. 5/3, 2018
3. K. Arsi, A. M. Donoghue, A. Woo-Ming, P. J. Blore, D. J. Donoghue: Intracloacal Inoculation, an Effective Screening Method for Determining the Efficacy of Probiotic Bacterial Isolates against Campylobacter Colonization in Broiler Chickens. Journal of Food Protection: January 2015, Vol. 78, No. 1, pp. 209-213, 2015
4. N. Hazarina: The impact of selenium-rich green and black tea water extracts on bone health in vitro, and in an animal model of osteoporosis: a thesis presented in partial fulfilment of the requirements for the degree of Doctor of Philosophy in Health Sciences at Massey University, Palmerston North, New Zealand, 2017

Mentorat studenți

Profesor consultant-XII. ETDK- Secția de Științe Agricole, 2019
XX. TDK, Miercurea Ciuc, 2023

Popularizare a științei

Membrul echipei de organizare „Nyílt Labor Ajtók” 2017, 2018;
Membru echipei de organizare „Laborkukac diákvetélkedő” 2017, 2018, 2023.
Membru echipei de organizare „Nyílt Napok” 2022, 2023.

22.11.2023

Both Emese