LISTA DE PUBLICAȚII

NUMELE ŞI PRENUMELE: Gyenge László

A. Teza de doctorat.

Titlul: Elaborarea unei tehnologii mezofile pentru producere de biogaz din borhotul de porumb.

Conducătorii: Prof. Dr. Lányi Szabolcs, Dr. Ráduly Botond.

Instituție: Universitatea Politehnica din București, Facultatea Chimie Aplicată și Știința Materialelor.

Calificativul obținut: Doctor in domeniul inginerie chimică.

B. Lucrări științifice publicate

1. Szép, S., Molnos, É., Salamon, R. V., & **Gyenge, L.** (2024) Általános élemiszeripari technológia, Iași, Editura Cermi, ISBN: 9789736674693
2. **Gyenge, L.**, Szép, S. (2026) Húsipari Technológia Terv (Proiect Tehnologic pentru Industria Cărnii), Sfântu Gheorghe, Editura T3, ISBN: 978-630-6755-08-0

C1. Lucrări științifice publicate în reviste cotate ISI

1. Szabó, R., Veres, E., Albert, C., Laslo, É., **Gyenge, L.** & Salamon, R. V. (2025). Study of Different Enrichment Methods with Blackcurrant Wine and Their Effects on Hard Cheese Properties. *Dairy*, *6*(6), 71. (IF: 3.1).
2. **Gyenge, L.**, Erdő, K., Albert, C., Laslo, É. & Salamon, R. V. (2024). The effects of soaking in salted blackcurrant wine on the properties of cheese. *Heliyon*, *10*(14). (IF: 3.4).
3. Seidel, C. M., Brethauer, S., **Gyenge, L**., Rudolf von Rohr, P. & Studer, M. H. (2019). Two-stage steam explosion pretreatment of softwood with 2-naphthol as carbocation scavenger. *Biotechnology for biofuels*, *12*(1), 37. (5-year IF: 6.343).
4. **Gyenge, L.**, Raduly, B., Crognale, S., Stazi, S. R., Lanyi, S. & Abraham, B. (2018). Biogas production from corn bioethanol whole stillage: evaluation of two different inocula. *Environmental Engineering & Management Journal (EEMJ)*, *17*(5). (IF: 1.334).
5. Ráduly, B., **Gyenge, L.**, Szilveszter, S., Kedves, A. & Crognale, S. (2016). Treatment of corn ethanol distillery wastewater using two-stage anaerobic digestion. *Water Science and Technology*, *74*(2), 431-437. (IF: 1.247).
6. **Gyenge, L.**, Ráduly, B., Crognale, S., Lányi, S. & Ábrahám, B. (2014). Cultivating conditions optimization of the anaerobic digestion of corn ethanol distillery residuals using response surface methodology. *Central European Journal of Chemistry*, *12*(8), 868-876. (IF: 1.329).

C2. Lucrări științifice publicate în reviste indexate în baze de date internaționale

1. **Gyenge, L.**, Ráduly, B., Barrera, R., Font, X., Lányi, S. & Ábrahám, B. (2013). Efficiency of biogas production from corn bioethanol by-products using different inocula. In *2013 4th International Youth Conference on Energy (IYCE)* (pp. 1-6). IEEE.
2. **Gyenge, L.**, Erdő, K., Albert, C., Laslo, É. & Salamon, R. V. Examination of the Properties of Cheese Soaked in Salted Blackcurrant Wine. *Available at SSRN 4551888*.

C3. Lucrări științifice publicate în reviste din țară, recunoscute CNCSIS (altele decât cele din baze de date internaționale).

1. **Gyenge, L.**, Crognale, S., Lányi, S., Abraham, B. & Ráduly, B. (2014). Anaerobic digestion of corn-DDGS: effect of pH-control, agitation and batch repetition. *UPB Buletin Stiintific, Series B: Chemistry and Materials Science*, *76*, 163-172. ISSN 1454-2331.

2. **Gyenge, L.**, Jakab, E., Kelemen, E., Ráduly, B., Lányi, S. & Ábrahám, B. (2014). "Testing of application of bactofugate (dairy by-product) in anaerobic digestion to generate biogas", in Technical Review, no. 63, 16-20. ISSN 1454-0746.

3. Both, E., **Gyenge, L.**, Bodor, Z., Gyorgy, E., Lanyi, S. & Abraham, B. (2012). Intensification of probiotic microorganisms viability by microencapsulation using ultrasonic atomizer. *UPB Buletin Stiintific, Series B: Chemistry and Materials Science*, *74*(1), 27-32. ISSN 1454-2331, 2012.

C4. Participări la conferințe naționale și internaționale

1. **Gyenge, L.,** Albert, Cs., András, Cs. D. , György, É., Laslo, É., Molnos, É., Szabó, R., Tamás, M., Veres, E. & Salamon, R.V.: "*Helyi erőforrásokra alapozott funkcionális sajttermékek fejlesztése feketeribizli-dúsítással a rövid ellátási lánc rendszerében*", I. Tudományos szakmai konferencia, Gödöllő, Hungary, 17-18 March, 2026.

2. András, Cs. D. , Szabó, R., **Gyenge, L.,** Albert, Cs., Molnos, É., Tamás, M., Laslo, É., György, É., Gombos, S. & Salamon, R.V.: "*Properties of hard cheese soaked and matured in blackcurrant wine*", 5th Foodconf Science, Technology & Innovation, Budapest, Hungary, 20-21 November, 2025.

3. **Gyenge, L.,** Szabó, R., Albert, Cs., Molnos, É., Tamás, M., Laslo, É., György, É., Gombos, S., András, Cs. D. & Salamon, R.V.: "*Investigation of the soaking of matured semi-hard cheeses in blackcurrant wine or in natural blackcurrant juice*", 2nd Debrecen Online Conference on Infectious Diseases in a One Health context (DOCIDOH), Debrecen, Hungary, 19 Iune, 2025.

4. Albert, Cs., András, Cs. D., **Gyenge, L.,** Laslo, É. & Salamon, R.V.: "*Whey Valorization for Alcoholic Fermentation*", 6th International Conference on Biosystems and Food Engineering, Budapest, Hungary, 6 Iune, 2025.

5. **Gyenge, L.,** Szabó, R., Veres, E., Albert, Cs., Laslo, É. & Salamon, R.V.: "*The effects of soaking in blackcurrant wine on the properties of cheese*", 30th International Conference on Chemistry, Cluj Napoca, Romania, 23-26 October, 2024.

6. **Gyenge, L.,** Szabó, R., Veres, E., Albert, Cs., Laslo, É. & Salamon, R.V.: "*The effects of soaking in blackcurrant wine on the properties of cheese*", Let's do research together!, Miercurea Ciuc, Romania, 19 Ianuary, 2024.

7. **Gyenge, L.**: "*A feketeribizli-borban áztatott és érlelt kemény sajtok tulajdonságainak vizsgálata*", Let's do research together!, Miercurea Ciuc, Romania, 19 Ianuary, 2024.

8. **Gyenge, L.**: "*Examination of the digestibility of the treated pre-fermented anaerobic sludge*", Let's do research together!, Miercurea Ciuc, Romania, 22 November, 2019.

9. **Gyenge, L.**: "*Analyzing of food products, the importance of traceability of food products*", Caption project conference, Miercurea Ciuc, Romania, 21 June, 2019.

10. **Gyenge, L.**: "*Examination of biochemical methane potential of the steam-exploded pre-fermented anaerobic sludge*", I. RING - Scientific Conference on Sustainable Raw Materials Management, Pécs, Hungary, 7-9 November, 2018.

11. Cazier, E. A. & **Gyenge, L.**: "*Improving methane production of cow manure by steam explosion*", Biogas Science 2018 - International Conference on Anaerobic Digestion, Torino, Italy, 17-19 September, 2018.

12. Szabó, T., Szabó, B., Tóthfalusi, F. & **Gyenge, L.**: "*Efficiency Improvement of a two phase biogas plant using steam explosion technology*", 21th International Conference on Chemistry, Sumuleu Ciuc, Romania, 23-27. September 2015.

13. **Gyenge, L.**, Ráduly, B., Barrena, R., Font, X., Lányi, Sz. & Ábrahám, B.: "*Anaerobic digestion of corn whole stillage with inocula deriving from different sources*", 19th International Conference on Chemistry, Baia Mare, Romania, 21-24. November, 2013.

14. **Gyenge, L.**, Ráduly, B., Crognale, S., Lányi, Sz. & Ábrahám, B., "*Cultural conditions optimization of the anaerobic digestion of corn ethanol distillery residuals using response surface methodology*", 18th International Conference on Chemistry and Chemical Engineering, Sinaia, Romania, 4-7 September, 2013.

15. **Gyenge, L.**, Ráduly, B., Barrena, R., Font, X., Lányi, Sz. & Ábrahám, B.: "*Efficiency of biogas production from corn bioethanol by-products using different inocula*", 4th International Youth Conference on Energy, Siófok, Hungary, 6-8 June, 2013.

16. **Gyenge, L.**, Ráduly, B., Crognale, S., Stazi, S.R., Lányi, Sz. & Ábrahám, B.: "*Evaluation of two different inocula for biogas production from whole corn stillage*", 18th International Conference on Chemistry, Băile Felix, Romania, 22-25. November, 2012.

17. Both, E., **Gyenge, L.**, György, É., Lányi, Sz. & Ábrahám, B.: "*Intensification of probiotic microorganisms viability by microencapsulation using ultrasonic atomizer*", 17th International Conference on Chemistry, Cluj Napoca, Romania, 3-6. November, 2011.

18. Both, E., **Gyenge, L.**, Bodor, Zs., György, É., Lányi, Sz. & Ábrahám, B.: "*Intensification of probiotic microorganisms viability by microencapsulation using ultrasonic atomizer*", 17th Romanian International Conference on Chemistry and Chemical Engineering, Sinaia, Romania, 7-10. September, 2011.

19. Belák, Á., Cenic, S., Marsi, B., **Gyenge, L.** & Maráz, A.: "*Physiological and biochemical characterisation of spoilage bacteria originated from chicken meat*", The 21st Internationla ICFMH Symposium - FoodMicro, Aberdeen, Scotland, 1-4. September, 2008;

20. Belák, Á., Cenic, S., Holczman, A.N., **Gyenge, L.** & Maráz, A.: "*Examination and characterization of chicken meat spoilage bacteria*", Hungalimentaria Science Conference, Budapest, Hungary 25-26. October, 2007.

21. Belák, Á., Cenic, S., Holczman, A.N., **Gyenge, L.** & Maráz, A.: "*Physiological and biochemical characterization of bacterias that cause deterioration of chicken meat*", Lippay János – Imre Ormos – Károly Vas Scientific Session, Budapest, Hungary, 7-8. November, 2007.

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

Denumirea cercetarea / proiectului	**Beneficiar**	**Finanțator**	**Validate**	**Perioada**	**Proiect no.**	**Volumul finanțării [RON]**
Obținerea unui aliment funcțional cu brânzeturi și coacăze negre	Universitatea Sapientia - Departamentul de Științe Alimentare	KPI	Membru	30.04.2025-	Nr. de înreg. IPC: 13/5/21.05.2025 Nr. de înreg. Univ. Sapientia: 244/3/21.05.2025	
Colaborare consultativă între Departamentul de Știința Alimentelor al Universității Sapientia și Batlas Holding - Sóskút Kft.	Universitatea Sapientia - Departamentul de Științe Alimentare	Batlas Holding - Sóskút Kft.	Membru	16.12.2021-	Codul de înregistrare al proiectului: 173/16.12.2021.	
Microbial Strategy to Enhance the Biogas Yield in Anaerobic Digestion of Manure	Bern University of Applied Sciences Berner Fachhochschule	Guvernul Elveției	Membru	2017-2017	S11501424-01	179 340
Cercul de cercetare al biogazului (Ungaria)	FIBAG Biogas kft	Guvernul Ungariei, Fondul European de Dezvoltare Regională	Director adjunct	2014-2017	GOP-1.3_.2-09-2010-0022	8 309 686

Denumirea cercetarea / proiectului	Beneficiar	Finanțator	Validate	Perioada	Proiect no.	Volumul finanțării [RON]
Fermentarea anaerobă fază separată a borhotului de porumb din industria bioetanolului	Universitatea Sapientia	Institutul programelor de cercetare al Fundației Sapientia	Membru	2013-2014	Fundația Sapientia IPC 128/8/2014	24 000

Miercurea Ciuc, 24.09.2026 dr. Gyenge László