

Mikrobioloģijas un biotehnoloģijas institūta 2016. gada publikācijas

1. Anhydrobiosis in yeast: cell wall mannoproteins are important for yeast *Saccharomyces cerevisiae* resistance to dehydration / Diana Borovikova, Renata Teparić, Vladimir Mrša, Alexander Rapoport // *Yeast*. – ISSN 0749-503X. – Vol. 33, N 8 (2016), p.347-353. DOI: 10.1002/yea.3164. – URL: <http://onlinelibrary.wiley.com/doi/10.1002/yea.3164/abstract>. Anotācija. {Pieejams Wiley online datubāzē }
2. Application of *Bifidobacterium lactis* as the Single Strain Probiotic Starter Culture for Fermentation of Salmon (*Salmo salar*) Mince / Pāvels Semjonovs, Artūrs Patetko, Māra Grūbe, Kārlis Švirksts, Lilija Auziņa, Dagnija Upīte, Raimonds Linde, Artis Bormanis, Andris Upītis, Maija Rukliša, Emīls Kozlinskis, Elga Biruta Parele, Juris Gailītis, Laima Silina, Ilze Denina, Mara Marauska, Roberts Dlohi // *Current Nutrition & Food Science*. – ISSN1573-4013. – Vol. 12, N 1 (2016), p.28-34. DOI: 10.2174/1573401311666150901211741. – URL: <http://benthamscience.com/journals/current-nutrition-and-food-science/article/134601/>. Pilns teksts. { Pieejams žurnāla datubāzē. }
3. Characterisation of films and nanopaper obtained from cellulose synthesised by acetic acid bacteria / Laura Vikele, Paveļs Semjonovs, Madara Saka, Maija Rukliša, Longina Paegle, Linda Rozenberga, Marite Skute, Lubova Belkova, Inese Sable. - Ietver bibliogrāfiju // *Carbohydrate Polymers*. – ISSN 0144-8617. – Vol.144 (2016), p.33-40. DOI: 10.1016/j.carbpol.2016.02.025. – URL: <http://www.sciencedirect.com/science/article/pii/S0144861716300819>. Pilns teksts. { Pieejams ScienceDirect datubāzē. }
4. Comparative efficiency of different biofertilizers applied to the same field / Dagnija Vecstaudza, Maris Senkovs, Solvita Stelmahere, Zaiga Petrina, Galina Makarenkova, Vizma Nikolajeva, Olga Muter // *Journal of Biotechnology*. – ISSN 0168-1656. – Vol. 231, Suppl. S : Abstracts of European Biotechnology Conference, 5-7 May, 2016, Latvia (2016), p.S.98. DOI: 10.1016/j.jbiotec.2016.05.346. – URL: <http://www.sciencedirect.com/science/article/pii/S0168165616306095>. Pilns teksts. { Pieejams ScienceDirect datubāzē. }
5. Effects of acetate on *Kluyveromyces marxianus* DSM 5422 growth and metabolism / Jekaterina Martynova, Agnese Kokina, Juris Kibilds, Janis Liepins, Rita Scerbaka, Armands Vigants // *Applied Microbiology and Biotechnology*. – ISSN 0175-7598. – Vol.100, N 10 (2016), p. 4585-4594. DOI: 10.1007/s00253-016-7392-0. – URL: <http://rd.springer.com/article/10.1007/s00253-016-7392-0>. Anotācija. { Pieejams Springer datubāzē. }
6. Effects of acetate on *Kluyveromyces marxianus* growth and metabolism / Jekaterina Martynova, Agnese Kokina, Janis Liepins, Kristiana Kovtuna, Armands Vigants // 3rd Congress of Baltic Microbiologists 2016 (CMB2016), October 18-21, Vilnius, Lithuania : Book of Abstracts. – Vilnius, 2016. – ISBN 9786094597459. – P. 37. – URL: <http://www.cbm2016.gf.vu.lt/book-of-abstracts-cbm2016-2/>. Pilns teksts.
7. Fourier-transform infrared spectroscopic analyses of cellulose from different bacterial cultivations using microspectroscopy and a high-throughput screening device / Kārlis Švirksts, Māra Grūbe, Ilze Deniņa, Maija Rukliša, Pāvels Semjonovs // *Vibrational Spectroscopy*. – ISSN 0924-2031. – Vol.84 (2016), p.53-57. DOI:10.1016/j.vibspec.2016.03.001. – URL: <http://www.sciencedirect.com/science/article/pii/S0924203116300273>. Pilns teksts. { Pieejams ScienceDirect datubāzē. }

8. FT-IR spectroscopy studies of the breast cancer cell composition changes induced by Au-BSA nanoclusters / Mara Grube, Karlis Shvirksts, Dominyka Dapkute, Marija Matulionyte, Elina Zandberga, Aija Line, Ricardas Rotimskis // Journal of Biotechnology : Abstracts of European Biotechnology Conference held in Latvia 5–7 May, 2016. – Amsterdam : Elsevier, 2016. – ISSN 0168-1656. – Vol. 231, S (2016), p.S93. <http://dx.doi.org/10.1016/j.jbiotec.2016.05.331>. – URL: <http://www.sciencedirect.com/science/article/pii/S0168165616305946>. Pilns teksts. { Pieejams ScienceDirect datubāzē. }
9. The low energy-coupling respiration in zymomonas mobilis accelerates flux in the entner-doudoroff pathway / Reinis Rutkis, Inese Strazdina, Elina Balodite, Zane Lasa, Nina Galinina, Uldis Kalnenieks // PLoS ONE. – ISSN 1932-6203. – Vol. 11, N 4 (2016). DOI: 10.1371/journal.pone.0153866. – URL: <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4839697/>. Pilns teksts. {Pieejams PLoS ONE datubāzē. }
10. **Mednis, Mārtiņš.** TraSe: Real-time two-dimensional ball tracking and control system / Mārtiņš Mednis, Sandis Viļums, Egils Stalidzāns // International Journal of Electrical Engineering Education. – ISSN 0020-7209. – Vol.53, N 2 (2016), p.145-155. DOI: 10.1177/0020720915611141. – URL: <http://ije.sagepub.com/content/53/2/145.full.pdf+html>. Pilns teksts. { Pieejams Sage Journals datubāzē. }
11. 2-Phenylethanol production by Kluyveromyces marxianus on glucose and lactose substrates / Arturs Patetko, Ronalds Silins, Rita Scherbaka, Jekateryna Martinova, Armands Vigants // Journal of Biotechnology. – ISSN 0168-1656. – Vol. 231, Suppl. S : Abstracts of European Biotechnology Conference, 5-7 May, 2016, Latvia (2016), p.S62-S63.DOI:10.1016/j.jbiotec.2016.05.233. – URL: <http://www.sciencedirect.com/science/article/pii/S0168165616304965>. Pilns teksts. {Pieejams ScienceDirect datubāzē. }; URL: <http://web.b.ebscohost.com/ehost/detail/detail?vid=4&sid=286b8802-106a-4d11-8bdb-d2d46e6bdc38%40sessionmgr103&hid=125&bdata=JnNpdGU9ZWhvc3QtG12ZQ%3d%3d#AN=116927002&db=a9h>. Anotācija. { Pieejams EBSCO datubāzē. }
12. Production of extracellular fructans by Gluconobacter naphelii P1464 / P. Semjonovs, L. Shakirova, R. Treimane, K. Shvirksts, L. Auzina, I. Cleenwerck, P. Zikmanis // Letters in Applied Microbiology. – ISSN 0266-8254. – Vol. 62 (2) (2016), p.145-152. DOI: 10.1111/lam.12521. – URL: <http://onlinelibrary.wiley.com/doi/10.1111/lam.12521/abstract>. Anotācija. { Pieejams Wiley online datubāzē. }
13. **Rapoports, Aleksandrs.** Application of anhydrobiosis and dehydration of yeasts for non-conventional biotechnological goals / Alexander Rapoport, Benedetta Turchetti, Pietro Buzzini // World Journal of Microbiology and Biotechnology. – ISSN 0959-3993. – Vol. 32, N 6 (2016), Article number: 104. DOI: 10.1007/s11274-016-2058-8. – URL: <http://link.springer.com/article/10.1007%2Fs11274-016-2058-8>. Anotācija. { Pieejams Springer datubāzē. }
14. Remote detection of the swarming of honey bee colonies by single-point temperature monitoring / Aleksejs Zacepins, Armands Kviessis, Egils Stalidzāns, Marta Liepniece, Jurijs Meitalovs // Biosystems Engineering. – ISSN 1537-5110. – Vol.148 (2016), p.76-80. DOI: 10.1016/j.biosystemseng.2016.05.012. – URL: <http://www.sciencedirect.com/science/article/pii/S1537511016300964>. Pilns teksts. {Pieejams ScienceDirect datubāzē. }

15. Search for a Minimal Set of Parameters by Assessing the Total Optimisation Potential for a Dynamic Model of a Biochemical Network / Egils Stalidzans, Ivars Mozga, Jurijs Sulins, Peteris Zikmanis // IEEE/ACM Transactions on Computational Biology and Bioinformatics. – ISSN 1545-5963. – Vol. PP, N 99 (2016), p.1. DOI: 10.1109/TCBB.2016.2550451. – URL: <http://ieeexplore.ieee.org/xpl/articleDetails.jsp?arnumber=7448875>. Anotācija. {Pieejams IEEE Xplore Digital Library datubāzē. }
16. Strategies for structuring interdisciplinary education in Systems Biology: an European perspective / Marija Cvijovic, Höfer Thomas, Jure Aćimović, Lilia Alberghina, Eivind Almaas, Daniela Besozzi, Anders Blomberg, Till Bretschneider, Marta Cascante, Olivier Collin, Egils Stalidzāns ... [et al.] // npj Systems Biology and Applications. – ISSN 2056-7189. – Vol. 2 (2016), Article number: 16011. DOI:10.1038/npjbsba.2016.11.0. – URL: <http://www.nature.com/articles/npjbsba201611>. Pilns teksts. {Pieejams žurnāla datubāzē. }
17. Utilization of different carbohydrates by various *Kluyveromyces marxianus* strains / Jekaterina Martynova, Agnese Kokina, Janis Liepins, Armands Vigants // Journal of Biotechnology. – ISSN 0168-1656. – Vol. 231, Suppl. S : Abstracts of European Biotechnology Conference, 5-7 May, 2016, Latvia (2016), p.S62. DOI: 10.1016/j.jbiotec.2016.05.232. – URL: <http://www.sciencedirect.com/science/article/pii/S0168165616304953>. Pilns teksts. {Pieejams ScienceDirect datubāzē. }; URL: <http://web.b.ebscohost.com/ehost/detail/detail?vid=4&sid=24cb02e5-cfb9-45db-8d27-56c0636f52f4%40sessionmgr107&hid=123&bdata=JnNpdGU9ZWhvc3QtbGl2ZQ%3d%3d#AN=116927138&db=a9h>. Anotācija. {Pieejams EBSCO datubāzē. }
18. Whey lactose bioconversion to valuable products by non-conventional yeasts *Kluyveromyces marxianus* / Armands Vigants, Jekaterina Martynova, Kristiana Kovtuna, Agnese Kokina, Janis Liepins // Journal of Biotechnology. – ISSN 0168-1656. – Vol. 231, Suppl. S : Abstracts of European Biotechnology Conference, 5-7 May, 2016, Latvia (2016), p.S7. DOI:10.1016/j.jbiotec.2016.05.051. – URL: <http://www.sciencedirect.com/science/article/pii/S0168165616303145>. Pilns teksts. { Pieejams ScienceDirect datubāzē. }; URL: <http://web.b.ebscohost.com/ehost/detail/detail?vid=6&sid=286b8802-106a-4d11-8bdb-d2d46e6bdc38%40sessionmgr103&hid=125&bdata=JnNpdGU9ZWhvc3QtbGl2ZQ%3d%3d#AN=116926883&db=a9h>. Anotācija. { Pieejams EBSCO datubāzē. }
19. *Zymomonas mobilis* strains with modified NADH dehydrogenase activity: expression and purification of Ndh / Elina Balodite, Inese Strazdina, Nina Galinina, Robert K. Poole, Uldis Kalnenieks. - (Abstracts of the 74th Scientific Conference of the University of Latvia, January-February 2016). - Bibliogr.: p.46 // Environmental and Experimental Biology. - ISSN 1691-8088. - Vol.14, N 1/2 (2016), p.45-46. - URL: http://eeb.lu.lv/EEB/201603/conference_EEB_14.pdf. Pilns teksts.