

#### **Advanced continuous cultivation methods for systems microbiology**

**Adamberg, Kaarel;** Valgepea, Kaspar; **Vilu, Raivo** Microbiology 2015 / p. 1707-1719 : ill <https://doi.org/10.1099/mic.0.000146> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Amino acids are key substrates to Escherichia coli BW25113 for achieving high specific growth rate**

**Maser, Andres; Peebo, Karl;** Vilu, Raivo; **Nahku, Ranno** Research in microbiology 2020 / p. 185–193  
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#### **Analysis of functional gene transcripts suggests active CO<sub>2</sub> assimilation and CO oxidation by diverse bacteria in marine sponges**

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#### **Analysis of total phenols, sugars, and mineral elements in colored tubers of solanum tuberosum L.**

**Saar-Reismaa, Piret;** Kotkas, Katrin; Rosenberg, Viive; **Kulp, Maria; Kuhtinskaja, Maria; Vaher, Merike** Foods 2020 / art. 1862  
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#### **ANAMMOX-denitrification biomass in microbial fuel cell to enhance the electricity generation and nitrogen removal efficiency**

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#### **Application of continuous culture methods to recombinant protein production in microorganisms**

**Peebo, Karl;** Neubauer, Peter Microorganisms 2018 / 12 p <https://doi.org/10.3390/microorganisms6030056> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Application of the UHPLC-DIA-HRMS method for determination of cheese peptides**

**Arju, Georg;** Taivosalo, Anastassia; **Pismennõi, Dmitri; Lints, Taivo; Vilu, Raivo;** Daneberga, Zanda; Vorslova, Svetlana; Renkonen, Risto; Joenvaara, Sakari Foods 2020 / art. 979, 11 p. : ill <https://doi.org/10.3390/foods9080979> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Avoiding amino acid depletion in a complex medium results in improved Escherichia coli BW25113 growth**

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#### **Biofabrication of zinc oxide nanoparticles with syzygium aromaticum flower buds extract and finding its novel application in controlling the growth and mycotoxins of Fusarium graminearum**

Lakshmeesha, Thimappa Ramachandrappa; Kalagatur, Naveen Kumar; Mudili, Venkataramana; Mohan, Chakrabhavi Dhananjaya; Rangappa, Shobith; Prasad, Bangari Daruka; Ashwini, Bagepalli Shivaram; Hashem, Abeer; Alqarawi, Abdulaziz A.; **Gupta, Vijai Kumar** Frontiers in microbiology 2019 / art. 1244, 13 p. : ill <https://doi.org/10.3389/fmicb.2019.01244> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Bioreactivity, guttation and agents influencing surface tension of water emitted by actively growing indoor mould isolates**

Andersson, Maria A.; Salo, Johanna; Kedves, Orsolya; Kredics, Laszlo; Druzhinina, Irina; **Kurnitski, Jarek;** Salonen, Heidi Microorganisms 2020 / art. 1940, 20 p <https://doi.org/10.3390/microorganisms8121940> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Cereal and confectionary packaging : assessment of sustainability and environmental impact with a special focus on greenhouse gas emissions**

Krauter, Victoria; Bauer, Anna-Sophia; Milousi, Maria; Dörnyei, Krisztina Rita; Ganczewski, Greg; **Leppik, Kärt;** Krepil, Jan; Varzakas, Theodoros Foods 2022 / art. 1347 <https://doi.org/10.3390/foods11091347> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Cereal and confectionary packaging: background, application and shelf-life Extension**

Bauer, Anna-Sophia; **Leppik, Kärt;** Galic, Kata Foods 2022 / art. 697 <https://doi.org/10.3390/foods11050697> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Characterisation of chemical, microbial and sensory profiles of commercial kombuchas**

Andreson, Maret; Kazantseva, Jekaterina; **Kuldjärv, Rain;** Malv, Esther; **Vaikma, Helen;** Kaleda, Aleksei; Kütt, Mary-Liis; **Vilu, Raivo** International journal of food microbiology 2022 / art. 109715 <https://doi.org/10.1016/j.ijfoodmicro.2022.109715> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Combinational inhibitory action of hedychium spicatum L. essential oil and γ-radiation on growth rate and mycotoxins content of fusarium graminearum in maize: response surface methodology**

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**Competitive advantage and higher fitness in native populations of genetically structured planktonic diatoms**

**Sildever, Sirje**; Sefbom, Josefin; **Lips, Inga**; Godhe, Anna Environmental microbiology 2016 / p. 4403-4411 : ill

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**Composition and metabolism of fecal microbiota from normal and overweight children are differentially affected by melibiose, raffinose and raffinose-derived fructans**

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**Composition of polysaccharides in hull-less barley sourdough bread and their impact on physical properties of bread**

Reidzane, Sanita; Gramatina, Ilze; Galoburda, Ruta; Komasilovs, Vitalijs; Zacepins, Aleksejs; **Bljahhina, Anastassia**; Kince, Tatjana;

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**The composition, physicochemical properties, antioxidant activity, and sensory properties of Estonian honeys**

**Kivima, Evelin**; Tanilas, Kristel; **Martverk, Kaie**; Rosenvald, Sirli; **Timberg, Loreida**; **Laos, Katrin** Foods 2021 / art. 511, 14 p

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**A conundrum of r-protein stability : unbalanced stoichiometry of r-proteins during stationary phase in Escherichia coli**

Reier, Kaspar; **Lahtvee, Petri-Jaan**; Liiv, Aivar; Remme, Jaanus mBio 2022 / art. e01873-22 : ill <https://doi.org/10.1128/mbio.01873-22>

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**Corrigendum: A survey using high-throughput sequencing suggests that the diversity of cereal and barley yellow dwarf viruses is underestimated (Front. Microbiol., (2021), 12, (673218), 10.3389/fmicb.2021.673218)**

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**Detailed analysis of metabolism reveals growth-rate-promoting interactions between Anaerostipes caccae and Bacteroides spp**

**Kattel, Anna**; Morell, Indrek; **Aro, Valter**; **Lahtvee, Petri-Jaan**; **Vilu, Raivo**; Jöers, Arvi; Nahku, Ranno Anaerobe 2023 / art. 102680

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**Detection of Candidatus Neoehrlichia mikurensis and Ehrlichia muris in Estonian ticks**

Ivanova, Anna; Geller, Julia; Katargina, Olga; **Värv, Kairi**; Lundkvist, Åke; Golovljova, Irina Ticks and tick-borne diseases 2017 / p. 13-

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**Determination of technological parameters and characterization of microbiota of the spontaneous sourdough fermentation of hull-less barley**

Reidzane, Sanita; Kruma, Zanda; **Kazantseva, Jekaterina**; **Traksmaa, Anna**; Klava, Dace Foods 2021 / art. 2253 : ill

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**Development of extraction method for determination of saponins in soybean-based yoghurt alternatives: effect of sample pH**

**Bljahhina, Anastassia**; **Kuhtinskaja, Maria**; Kriščiunaite, Tiina Foods 2023 / art. 2164 <https://doi.org/10.3390/foods12112164> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Development of microbiome biobanks – challenges and opportunities**

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**Differences in gut microbiota between atopic and healthy children**

**Drell, Tiina**; Larionova, Anneli; Voor, Tiia; **Simm, Jaak**; Julge, Kaja; Heilman, Kaire; Tillmann, Vallo; Štšepetova, Jelena; Sepp, Epp

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**The effect of apple juice concentration on cider fermentation and properties of the final product**

**Rosend, Julia**; **Kaleda, Aleksei**; **Kuldjärv, Rain**; **Arju, Georg**; **Nisamedtinov, Ildar** Foods 2020 / art. 1401, 12 p

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**The effects of agricultural practices on earthworm communities in Estonia**

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**Endolichenic fungus, *Aspergillus quandricinctus* of *Usnea longissima* inhibits quorum sensing and biofilm formation of *Pseudomonas aeruginosa* PAO1**

Prateeksha; Bajpai, Rajesh; Yusuf, Mohd Aslam; Upreti, Dalip Kumar; **Gupta, Vijai Kumar**; Singh, Brahma Nand Microbial pathogenesis 2020 / art. 103933, 9 p. : ill <https://doi.org/10.1016/j.micpath.2019.103933> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Erratum: Microbiome definition re-visited: old concepts and new challenges (Microbiome (2020) 8 (103) DOI: 10.1186/s40168-020-00875-0)**

Berg, Gabriele; Rybakova, Daria; Fischer, Doreen; Cernava, Tomislav; Vergès, Marie-Christine Champomier; Charles, Trevor C.; Chen, Xiaoyulong; Cocolin, Luca; Eversole, Kellye; **Sarand, Inga** Microbiome 2020 / art. 119, 1 p. <https://doi.org/10.1186/s40168-020-00905-x> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Evaluation of microbial dynamics of kombucha consortia upon continuous backslopping in coffee and orange juice**

**Andreson, Maret**; Kazantseva, Jekaterina; Malv, Esther; Kuldjärv, Rain; Priidik, Reimo; Kütt, Mary-Liis Foods 2023 / art. 3545 <https://doi.org/10.3390/foods12193545> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Excess of threonine compared with serine promotes threonine aldolase activity in *Lactococcus lactis* IL1403**

**Aller, Kadri; Adamberg, Kaarel**; Reile, Indrek; Timarova, Veronica; Peebo, Karl; Vilu, Raivo Microbiology 2015 / p. 1073-1080 : ill <https://doi.org/10.1099/mic.0.000071> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Exploring the resilience and stability of a defined human gut microbiota consortium : an isothermal microcalorimetric study**

**Kattel, Anna; Aro, Valter**; Lahtvee, Petri-Jaan; Kazantseva, Jekaterina; Jöers, Arvi; Nahku, Ranno; Belouah, Isma MicrobiologyOpen 2024 / art. e1430 <https://doi.org/10.1002/mbo3.1430> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Food leftover practices among consumers in selected vountries in Europe, South and North America**

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**Front-face fluorimeter for the determination of cutting time of cheese curd**

**Lazouskaya, Maryna**; Stulova, Irina; Sörmus, Aavo; **Scheler, Ott**; Tiisma, Kalle; Vinter, Toomas; Loov, Roman; Tamm, Martti Foods 2021 / art. 576, 13 p <https://doi.org/10.3390/foods10030576> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Identification of *I. ricinus*, *I. persulcatus* and *I. trianguliceps* species by multiplex PCR**

**Värv, Kairi**; Ivanova, Anna; Geller, Julia; Remm, Jaanus; Jaik, Kertu; Tikunova, Nina; Rar, Vera; Lundkvist, Åke; Golovljova, Irina Ticks and tick-borne diseases 2017 / p. 235-240 : ill <https://doi.org/10.1016/j.ttbdis.2016.11.004> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Involvement of *Escherichia coli* YbeX/CorC in ribosomal metabolism**

Sargül, İsmail; Žukova, Amata; Alparslan, Emel; Remm, Sille; **Pihlak, Margus**; Kaldalu, Niilo; Tenson, Tanel; Maiväli, Ülo Molecular Microbiology 2024 / p. 984 - 1001 <https://doi.org/2-s2.0-85188420785> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Low-carbohydrate high-fat weight reduction diet induces changes in human gut microbiota**

**Jaagura, Madis**; Viirard, Ene; Karu-Lavits, Kärtin; **Adamberg, Kaarel** MicrobiologyOpen 2021 / art. e1194 <https://doi.org/10.1002/mbo3.1194> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Metatranscriptome analysis deciphers multifunctional genes and enzymes linked with the degradation of aromatic compounds and pesticides in the wheat rhizosphere**

Singh, Dhananjaya P.; Prabha, Ratna; **Gupta, Vijai Kumar**; Verma, Mukesh K. Frontiers in microbiology 2018 / art. 1331, 15 p. : ill <https://doi.org/10.3389%2Ffmicb.2018.01331> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Methods for studying microbial acid stress responses: from molecules to populations**

Atasoy, M.; **Bartkova, Simona**; Cetecioglu-Gürol, Z.; Mira, N.; O'Byrne, C.; Perez-Rodriguez, F.; Possas, A.; **Scheler, Ott**; Sedlakova-Kadukova, J.; Sinčák, M.; **Steiger, M.**; Ziv, C.; Lund, P. A. FEMS microbiology reviews 2024 / art. fuae015, 41 p. : ill <https://doi.org/10.1093/femsre/fuae015> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Microbiome definition re-visited: old concepts and new challenges**

Berg, Gabriele; Rybakova, Daria; Fischer, Doreen; **Sarand, Inga** Microbiome 2020 / art. 103, 22 p. : ill <https://doi.org/10.1186/s40168-020-00875-0> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Microbiome interconnectedness throughout environments with major consequences for healthy people and a healthy planet**

Sessitsch, Angela; Wakelin, Steve; Schloter, Michael; Maguin, Emmanuelle; Cernava, Tomislav; Champomier-Verges, Marie-Christine; Charles, Trevor C.; Cotter, Paul D.; Ferrocino, Ilario; Kriaa, Aicha; Lebre, Pedro; Cowan, Don; Lange, Lene; Kiran, Seghal; Markiewicz, Lidia; Meisner, Annelein; Olivares, Marta; **Sarand, Inga**; Schelkle, Bettina; Selvin, Joseph; Smidt, Hauke; van Overbeek, Leo; Berg, Gabriele; Cocolin, Luca; Sanz, Yolanda; Fernandes, Wilson Lemos; Liu, S. J.; Ryan, Matthew; Singh, Brajesh; Kostic, Tanja Microbiology and molecular biology reviews 2023 <https://doi.org/10.1128/membr.00212-22> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Microcalorimetric study of the growth of *Streptococcus thermophilus* in renneted milk**

**Stulova, Irina**; Kabanova, Natalja; Kriščiunaite, Tiina; **Adamberg, Kaarel**; **Laht, Tiit-Maie**; **Vilu, Raivo** Frontiers in microbiology 2015 / p. 1-13 : ill <https://doi.org/10.3389/fmicb.2015.00079> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Mitigation of salinity stress in wheat seedlings due to the application of phytohormone-rich culture filtrate extract of methylotrophic actinobacterium *Nocardioide* sp. NIMMe6**

Meena, Kamlesh K.; Bitla, Utkarsh M.; Sorty, Ajay M.; Singh, Dhananjaya P.; **Gupta, Vijai Kumar**; Wakchaure G.C.; Kumar, Satish Frontiers in microbiology 2020 / art. 2091, 16 p. : ill. <https://doi.org/10.3389/fmicb.2020.02091> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **New insights into the evolution of host specificity of three *Penicillium* species and the pathogenicity of *P. italicum* involving the infection of Valencia orange (*Citrus sinensis*)**

Gong, Liang; Liu, Yongfeng; Xiong, Yehui; Li, Taotao; Yin, Chunxiao; Zhao, Juanni; Yu, Jialin; Yin, Qi; **Gupta, Vijai Kumar**; Jiang, Yueming Virulence 2020 / 20 p. : ill <https://doi.org/10.1080/21505594.2020.1773038> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Overcoming donor variability and risks associated with fecal microbiota transplants through bacteriophage-mediated treatments**

Rasmussen, Torben Sølbeck; Mao, Xiaotian; Forster, Sarah; Larsen, Sabina Birgitte; Von Münchow, Alexandra; Tranæs, Kaare Dyekær; Brunse, Anders; Larsen, Frej; Mejia, Josue Leonardo Castro; **Adamberg, Signe**; Hansen, Axel Kørnerup; **Adamberg, Kaarel**; Hansen, Camilla Hartmann Friis; Nielsen, Dennis Sandris Microbiome 2024 / art. 119 <https://doi.org/10.1186/s40168-024-01820-1> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Photoregulation in a Kleptochloroplastidic Dinoflagellate, *Dinophysis acuta***

Hansen, Per J.; **Ojamäe, Karin**; Berge, Terje; Trampe, Erik C. L.; Nielsen, Lasse T.; **Lips, Inga**; Kühl, Michael Frontiers in microbiology 2016 / art. 785, p. 1-11 : ill <https://doi.org/10.3389/fmicb.2016.00785> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Protein turnover forms one of the highest maintenance costs in *Lactococcus lactis***

**Lahtvee, Petri-Jaan**; Seiman, Andrus; **Arike, Liisa**; **Adamberg, Kaarel**; **Vilu, Raivo** Microbiology 2014 / p.1501-1512 : ill <https://doi.org/10.1099/mic.0.078089-0> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Quantitative analysis of oat (*Avena sativa* L.) and pea (*Pisum sativum* L.) saponins in plant-based food products by hydrophilic interaction liquid chromatography coupled with mass spectrometry**

**Bljaghina, Anastassia**; **Pismennõi, Dmitri**; Kriščiunaite, Tiina; **Kuhtinskaja, Maria**; Kobrin, Eeva-Gerda Foods 2023 / art. 991, 16 p. : ill <https://doi.org/10.3390/foods12050991> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **The quantitative measurement of peptidoglycan components obtained from acidic hydrolysis in gram-positive and gram-negative bacteria via hydrophilic interaction liquid chromatography coupled with mass spectrometry**

**Pismennõi, Dmitri**; **Kattel, Anna**; Belouah, Isma; Nahku, Ranno; **Vilu, Raivo**; Kobrin, Eeva-Gerda Microorganisms 2023 / art. 2134, 13 p. : ill <https://doi.org/10.3390/microorganisms11092134> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Red-brown pigmentation of acidipropionibacterium jensenii is tied to haemolytic activity and cyl-Like gene cluster**

**Smolander, Olli-Pekka**; Deptula, Paulina; Loivamaa, Iida; Laine, Pia; Roberts, Richard J.; Piironen, Vieno; Paulin, Lars; Savijoki, Kirsi; Auvinen, Petri; Varmanen, Pekka Microorganisms 2019 / p. 15 p. : ill <https://doi.org/10.3390/microorganisms7110512> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Reduction in spoilage microbiota and cyclopiazonic acid mycotoxin with chestnut extract enriched chitosan packaging: stability of inoculated Gouda cheese**

**Kõrge, Kristi**; Šeme, Helena; Bajić, Marijan; Likozar, Blaž; Novak, Uroš Foods 2020 / Art. nr. 1645 <https://doi.org/10.3390/foods9111645> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Revisiting the origins of the Sobemovirus genus: A case for ancient origins of plant viruses**

Ghafari, Mahan; **Sõmera, Merike**; **Sarmiento Guerin, Maria Cecilia**; Niehl, Annette; Hebrard, Eugénie; Tsoleridis, Theodoris; Ball, Jonathan; Moury, Benoit; Lemey, Philippe; Katourakis, Aris; Fargette, Denis PLoS Pathogens 2024 / art. e1011911 <https://doi.org/10.1371/journal.ppat.1011911> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Rhizosphere metagenomics of *Paspalum scrobiculatum* L. (kodo millet) reveals rhizobiome multifunctionalities**

Prabha, Ratna; Singh, Dhananjaya P.; Gupta, Shailendra; **Gupta, Vijai Kumar**; El-Enshasy, Hesham A.; Verma, Mukesh K. Microorganisms 2019 / art. 608, 21 p. : ill <https://doi.org/10.3390/microorganisms7120608> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Ripening of hard cheese produced from milk concentrated by reverse osmosis**

**Taivosalo, Anastassia**; Kriščiunaite, Tiina; Stulova, Irina; Part, Natalja; **Rosend, Julia**; Sörmus, Aavo; **Vilu, Raivo** Foods 2019 / Art. nr. 165 <https://doi.org/10.3390/foods8050165> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Scaffold of selenium nanovectors and honey phytochemicals for inhibition of pseudomonas aeruginosa quorum sensing and biofilm formation**

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**Sedimentary Ancient DNA (sedaDNA) Reveals Fungal Diversity and Environmental Drivers of Community Changes throughout the Holocene in the Present Boreal Lake Lielais Svētīņu (Eastern Latvia)**

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**Techno-functional and sensory characterization of commercial plant protein powders**

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**The stability of phenolic compounds in fruit, berry, and vegetable purees based on accelerated shelf-life testing methodology**

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**Utilization of 15N-labelled yeast hydrolysate in *Lactococcus lactis* IL1403 culture indicates co-consumption of peptide-bound and free amino acids with simultaneous efflux of free amino acids**

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