

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

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#### **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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**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**

**Maser, Andres; Peebo, Karl;** Nahku, Ranno Microbiology 2019 / p. 37-46 : ill <https://doi.org/10.1099/mic.0.000742> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **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**

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#### **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**

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#### **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**

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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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**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**

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

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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](#)

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

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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](#)

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

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**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](#)

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

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

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

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**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

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

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**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**

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

Hansen, Per J.; **Ojamäe, Karin**; Berge, Terje; Trampe, Erik C. L.; Nielsen, Lasse T.; **Lips, Inga**; Köhl, 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**

**Blijhina, 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**

**Körge, 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; **Sómera, Merike**; **Sarmiento Guerin, Maria Cecilia**; Niehl, Annette; Hebrard, Eugénie; Tsoleridis, Theocharis; 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**

Prateeksha; Singh, Braj R.; Shoeb, M.; Sharma, S.; Naqvi, A.H.; **Gupta, Vijai Kumar**; Singh, Brahma N. *Frontiers in cellular and infection microbiology* 2017 / art. 93, 14 p. : ill <https://doi.org/10.3389/fcimb.2017.00093> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **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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### **Short-term pectin-enriched smoothie consumption has beneficial effects on the gut microbiota of low-fiber consumers**

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