

**Absolute quantification of viable bacteria abundances in food by next-generation sequencing : quantitative NGS of viable microbes**

Kallastu, Aili; Malv, Esther; **Aro, Valter**; Meikas, Anne; Vendelin, Mariann; **Kattel, Anna**; Nahku, Ranno; Kazantseva, Jekaterina  
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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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**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](#)

**Co-culture process development using individual substrates**

**Kattel, Anna**; Morell, Indrek; **Aro, Valter**; **Nahku, Ranno**; **Vilu, Raivo** 14th Baltic Conference on Food Science and Technology "Sustainable Food for Conscious Consumer" : FoodBalt 2021 : book of abstracts 2021 / p. 28

**Comparison and applications of label-free absolute proteome quantification methods on Escherichia coli**

**Arike, Liisa; Valgepea, Kaspar**; Peil, Lauri; **Nahku, Ranno**; **Adamberg, Kaarel**; **Vilu, Raivo** Journal of proteomics 2012 / p. 5437–5448 : ill <https://pubmed.ncbi.nlm.nih.gov/22771841/>

**Coordinated activation of PTA-ACS and TCA cycles strongly reduces overflow metabolism of acetate in Escherichia coli**

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

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**Development of consortia bioprocesses for efficient production of probiotics**

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**Evaluating the effect of different fibers on a simplified gut microbiota**

**Aro, Valter; Kattel, Anna**; **Nahku, Ranno**; Viiard, Ene; **Vilu, Raivo** 14th Baltic Conference on Food Science and Technology "Sustainable Food for Conscious Consumer" : FoodBalt 2021 : book of abstracts 2021 / p. 19  
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**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>

**Identification and relative quantification of proteins in Escherichia coli proteome by “up-front” collision-induced dissociation**

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**Multi-omics approach to study the growth efficiency and amino acid metabolism in Lactococcus lactis at various specific growth rates**

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**Proteome reallocation in Escherichia coli with increasing specific growth rate**

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**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](#)

**Specific growth rate dependent transcriptome profiling of Escherichia coli K12 MG1655 in accelerostat cultures**

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**Steady state growth space study of Lactococcus lactis in D-stat cultures**

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**Systems biology approach reveals that overflow metabolism of acetate in Escheria coli is triggered by carbon catabolite repression of acetyl-CoA synthetase**

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