

**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

<https://doi.org/10.1016/j.resmic.2020.02.001> [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**

Peebo, Karl; Valgepea, Kaspar; Nahku, Ranno; Riis, Gethe; Õun, Mikk; Adamberg, Kaarel; Vilu, Raivo Applied microbiology

and biotechnology 2014 / p. 5131-5143 : ill <https://doi.org/10.1007/s00253-014-5613-y> [Journal metrics at Scopus](#) [Article at Scopus](#)

[Journal metrics at WOS](#) [Article at WOS](#)

**Corrigendum to: "Comparison and applications of label-free absolute proteome quantification methods on Escherichia coli" [J Proteomics 75 (17) (2012) 5437-5448]**

Arike, Liisa; Valgepea, Kaspar; Peil, Lauri; Nahku, Ranno; Adamberg, Kaarel; Vilu, Raivo Journal of Proteomics 2013 / p. 619

<https://doi.org/10.1016/j.jprot.2013.07.012> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

Aro, Valter; Kattel, Anna; Nahku, Ranno; Viirard, Ene; Vilu, Raivo 14th Baltic Conference on Food Science and Technology

"Sustainable Food for Conscious Consumer" : FoodBalt 2021 : book of abstracts 2021 / p. 19

[https://tftak.eu/foodbalt/assets/files/Foodbalt\\_Book\\_of\\_Abstacts.pdf](https://tftak.eu/foodbalt/assets/files/Foodbalt_Book_of_Abstacts.pdf)

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

Arike, Liisa; Nahku, Ranno; Borissova, Maria; Adamberg, Kaarel; Vilu, Raivo European journal of mass spectrometry 2010 / 2,

p. 227-235 <https://pubmed.ncbi.nlm.nih.gov/20212332/>

**Metabolic Characterization and Composition Control of Next Generation Probiotic Consortia = Uue põlvkonna probiootiliste koosluste koostise kontroll ja metaboolne iseloomustus**

Kattel, Anna 2025 [https://www.ester.ee/record=b5757724\\*est](https://www.ester.ee/record=b5757724*est) <https://digikogu.taltech.ee/et/Item/941c22f1-d30b-4f28-97fd-feafc2b2ebec>

<https://doi.org/10.23658/taltech.62/2025>

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

Lahtvee, Petri-Jaan; Adamberg, Kaarel; Arike, Liisa; Nahku, Ranno; Aller, Kadri; Vilu, Raivo Microbial cell factories 2011 /

Article no. 12 <https://microbialcellfactories.biomedcentral.com/articles/10.1186/1475-2859-10-12>

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

Nahku, Ranno; Valgepea, Kaspar; Lahtvee, Petri-Jaan; Erm, Sten; Abner, Kristo; Adamberg, Kaarel; Vilu, Raivo Journal of

biotechnology 2010 / 1, p. 60-65 <https://www.sciencedirect.com/science/article/pii/S0168165609004726>

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

Lahtvee, Petri-Jaan; Valgepea, Kaspar; Nahku, Ranno; Abner, Kristo; Adamberg, Kaarel; Vilu, Raivo Antonie van

Leeuwenhoek 2009 / 4, p. 487-496 <https://pubmed.ncbi.nlm.nih.gov/19603284/>

**Stock culture heterogeneity rather than new mutational variation complicates short-term cell physiology studies of Escherichia coli K-12 MG1655 in continuous culture**

Nahku, Ranno; Peebo, Karl; Valgepea, Kaspar; Barrick, Jeffrey E.; Adamberg, Kaarel; Vilu, Raivo Microbiology 2011 / p. 2604-

2610 <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3352173/>

**Validation of critical factors for the quantitative characterization of bacterial physiology in accelerostat cultures =**

Kriitiliste faktorite valideerimine bakterite füsioloogia uurimiseks akselerostaatsetes kultiveerimiseksperimentides

Nahku, Ranno 2012