

### **A new method of continuous cultivation with computer controlled change of dilution rate**

**Paalme, Toomas; Vilu, Raivo** Proceedings of ICCAFT5/IFAC2-BIO2, Keystone, Colorado, April, 1992 1992

<https://www.sciencedirect.com/science/article/pii/S1474667017503766>

### **Absolute quantitative multi-omics characterization of specific growth rate-dependent metabolism of Escherichia coli = Absoluutselt kvantitatiivsetel oomikameetoditel põhinev kasvuerikiirusest sõltuva Escherichia coli metabolismi kirjeldamine**

**Valgepea, Kaspar** 2014 <https://digi.lib.ttu.ee/i/?1089>

### **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](#)

### **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/>

### **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> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **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](#)

### **Decrease of energy spilling in Escherichia coli continuous cultures with rising specific growth rate and carbon wasting**

**Valgepea, Kaspar; Adamberg, Kaarel; Vilu, Raivo** BMC systems biology 2011 / p. 106 <https://pubmed.ncbi.nlm.nih.gov/21726468/>

### **Detection of bioavailable heavy metals in EILATox-Oregon samples using whole-cell luminescent bacterial sensors in suspension or immobilized onto fibre-optic tips**

**Hakkila, K.; Green, T.; Leskinen, P.; Ivask, Angela; Marks, R.; Virta, Marko** Journal of applied toxicology 2004 / 5, p. 333-342 <https://pubmed.ncbi.nlm.nih.gov/15478176/>

### **Differential susceptibility of catheter biomaterials to biofilm-associated infections and their remedy by drug-encapsulated eudragit RL100 nanoparticles**

**Pandey, Vivek Kumar; Srivastava, Kumar Rohit; Ajmal, Gufran; Thakur, Vijay Kumar; Gupta, Vijai Kumar; Upadhyay, Siddh Nath; Mishra, Pradeep Kumar** International Journal of Molecular Sciences 2019 / Art. nr. 5110 <https://doi.org/10.3390/ijms20205110> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Dissolution of silver nanowires and nanospheres dictates their toxicity to escherichia coli**

**Visnapuu, Meeri; Joost, Urmas; Juganson, Katre; Künnis-Beres, Kai; Kahru, Anne; Kisand, Vambola; Ivask, Angela** BioMed Research International 2013 / art. 819252 <https://doi.org/10.1155/2013/819252> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Ekspert: Kuressaares tuleb ilmselt paar nädalat vett keeta, vanni minna ei soovita**

maaleht.delfi.ee 2023 [Ekspert: Kuressaares tuleb ilmselt paar nädalat vett keeta, vanni minna ei soovita](#)

### **Escherichia coli achieves faster growth by increasing catalytic and translation rates of proteins**

**Valgepea, Kaspar; Adamberg, Kaarel; Seiman, Andrus; Vilu, Raivo** Molecular biosystems 2013 / p. 2344-2358 : ill <https://doi.org/10.1039/c3mb70119k> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Escherichia coli achieves faster growth by increasing catalytic and translation rates of proteins**

**Valgepea, Kaspar; Adamberg, Kaarel; Seiman, Andrus; Vilu, Raivo** TÜ ja TTÜ doktorikool "Funktsionaalsed materjalid ja tehnoloogiad" : 04.-05. märts 2014, Tartu 2014 / [1] p

### **Escherichia coli kultiveerimine raskel veel**

**Vanatalu, Kalju** EMS 96 teaduskonverents, 6.-7. juuni 1996, Tallinn = EMS 96 Scientific Conference, 6-7 June 1996, Tallinn 1996 / [1] p

### **Experts: Faulty construction led to Kuressaare's 2023 water contamination**

err.ee 2025 <https://news.err.ee/1609635455/experts-faulty-construction-led-to-kuressaare-s-2023-water-contamination>

### **Fed-batch growth of auxotrophic E. coli in fully deuterated medium**

**Vanatalu, Kalju** International Union of Microbiological Societies, IUMS Congress '96. 8th International Congress of Bacteriology and Applied Microbiology Division. 8th International Congress of Mycology Division, Jerusalem, Israel, Aug. 18-23, 1996 : abstracts 1996 / p. 14

### **Genome-wide investigation of mRNA lifetime determinants in Escherichia coli cells cultured at different growth rates**

Esquerré, Thomas; Moisan, Annick; Chiapello, Hélène; Arike, Liisa; **Vilu, Raivo**; Gaspin, Christine; Cocaïgn-Bousquet, Muriel; Girbal, Laurence BMC Genomics 2015 / art. 275 <https://doi.org/10.1186/s12864-015-1482-8> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **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/>

### **Identification and relative quantification of proteins in Escherichia coli proteome using up-front CID**

**Arike, Liisa** NoSSS2009 : 5th Conference on Separation and Related Techniques by Nordic Separation Science Society : 26-29 August, 2009, Tallinn University of Technology, Estonia : abstract book and program 2009 / p. 75

### **Integrating gene and protein expression data with genome-scale metabolic networks to infer functional pathways**

Pey, Jon; **Valgepea, Kaspar**; Rubio, Angel; Beasley, John E; Planes, Francisco Javier BMC Systems Biology 2013 / art. 134 <https://doi.org/10.1186/1752-0509-7-134> [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](#)

### **Kuressaare veereostuse eel ei tehtud läbipesu ega mõõtmisi**

err.ee 2025 <https://www.err.ee/1609635407/kuressaare-veereostuse-eel-ei-tehtud-labipesu-ega-mootmisi>

### **Large-scale preparation of fully deuterated cell components. Ribosomes from Escherichia coli with high biological activity**

Vanatalu, K.; **Paalme, Toomas; Vilu, Raivo**; Burkhardt, N.; Jünemann, R.; May, R.; Rühl, M.; Wadzack, J.; Nierhaus, K.H. European journal of biochemistry 1993 / p. 315-321 <https://febs.onlinelibrary.wiley.com/doi/10.1111/j.1432-1033.1993.tb18148.x>

### **Lean-proteome strains - next step in metabolic engineering**

Valgepea, Kaspar; **Peebo, Karl; Adamberg, Kaarel; Vilu, Raivo** Frontiers in bioengineering and biotechnology 2015 / p. 1-4 <https://doi.org/10.3389/fbioe.2015.00011> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Levan enhances associated growth of Bacteroides, Escherichia, Streptococcus and Faecalibacterium in fecal microbiota**

**Adamberg, Kaarel**; Tomson, Katrin; Talve, Tiina; Pudova, Ksenia; **Puurand, Marju**; Visnapuu, Triinu; Alamäe, Tiina; **Adamberg, Signe** PLoS ONE 2015 / p. 1-18 : ill <https://doi.org/10.1371/journal.pone.0144042> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Motiliini ekspresseerimisest Escherichia coli's**

**Tomson, Katrin**; Vanatalu, K. XXVIII Eesti keemiapäevad : teaduskonverentsi ettekannete teesid = 28th Estonian Chemistry Days : abstracts of scientific conference 2002 / lk. 141-142

### **A multifunctional strontium/silver-co-substituted hydroxyapatite derived from biogenic source as antibacterial biomaterial**

Ressler, Antonia; Ivanković, Tomislav; Polak, Bruno; Ivanišević, Irena; Kovačić, Marin; Urlić, Inga; **Hussainova, Irina**; Ivanković, Hrvoje Ceramics International 2022 / p. 18361 - 18373 <https://doi.org/10.1016/j.ceramint.2022.03.095> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Nähtamatu koostöö: mikroplast tõstab bakterite vastupanuvõimet**

Olman, Triini novaator.err.ee 2025 <https://novaator.err.ee/1609719219/nahtamatu-koostoo-mikroplast-tostab-bakterite-vastupanuvõimet>

### **Photocatalytic antibacterial activity of nano-TiO<sub>2</sub> (anatase)-based thin films : effects on Escherichia coli cells and fatty acids**

Joost, Urmas; **Juganson, Katre**; Visnapuu, Meeri; Mortimer, Monika; Kahru, Anne; Nõmmiste, Ergo; Joost, Urmeli; Kisand, Vambola; Ivask, Angela Journal of photochemistry and photobiology B : biology 2015 / p. 178-185 : ill <https://doi.org/10.1016/j.jphotobiol.2014.12.010> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Pipes not flushed nor measurements taken before Kuressaare water pollution**

news.err.ee 2025 <https://news.err.ee/1609636163/pipes-not-flushed-nor-measurements-taken-before-kuressaare-water-pollution>

### **Production of labelled recombinant proteins in fed-batch system in Escherichia coli = Märgistatud rekombinantsete valkude tootmine Escherichia coli fed-batch süsteemides**

Tomson, Katrin 2007 [https://www.ester.ee/record=b2324657\\*est](https://www.ester.ee/record=b2324657*est)

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

Peebo, Karl; Valgepea, Kaspar; Maser, Andres; Nahku, Ranno; Adamberg, Kaarel; Vilu, Raivo Molecular biosystems 2015 / p. 1184-1193 : ill <https://doi.org/10.1039/c4mb00721b> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

### **Quantitative proteomics of Escherichia coli : from relative to absolute scale = Kvantitatiivne Escherichia coli proteoomika : relatiivsetest numbritest absoluutsete kogusteni**

Arike, Liisa 2012 [http://www.ester.ee/record=b2931221\\*est](http://www.ester.ee/record=b2931221*est)

### **Rannahooaeg läheneb vankumatu kiirusega – Stroomi ranna külastajatele on algavaks suveks üks hea ja üks halb uudis [Võrguväljaanne]**

Pau, Aivar forte.delfi.ee 2021 ["Rannahooaeg läheneb vankumatu kiirusega – Stroomi ranna külastajatele on algavaks suveks üks hea ja üks halb uudis"](https://www.ester.ee/record=b2931221*est)

### **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>

### **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/>

### **TalTechi ekspertuur ning tuvastas Kuressaare veereostuse põhjused**

ehitusleht.ee 2025 <https://ehitusleht.ee/taltechi-ekspertuur-ning-tuvastas-kuressaare-veereostuse-pohjused/>

### **The growth rate control in Escherichia coli at near to maximum growth rates : the A-stat approach**

Paalme, Toomas; Elken, R.; Kahru, Anne; Vanatalu, Kalju; Vilu, Raivo Antonie van Leeuwenhoek journal of microbiology 1997 / p. 217-230: ill

### **The transcription factor network of E. coli steers global responses to shifts in RNAP concentration**

Almeida, Bilena L.B.; Bahrudeen, Mohamed N. M.; Chauhan, Vatsala; Dash, Suchintak; Kandavalli, Vinodh; Häkkinen, Antti; Lloyd-Price, Jason; Cristina, Palma S. D.; Baptista, Ines S. C.; Smolander, Olli-Pekka Nucleic acids research 2022 / p. 6801-6819 <https://doi.org/10.1093/nar/gkac540> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

### **uCARE Chem Suite and uCAREChemSuiteCLI : tools for bacterial resistome prediction**

Saha, Saurav Bhaskar; Gupta, Vijai Kumar; Ramteke, Pramod Wasudeo Genes and Diseases 2021 / p. 721 - 729 <https://doi.org/10.1016/j.gendis.2020.06.008> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

### **Vee kvaliteet [Võrguteavik] : Escherichia coli ja coli-laadsete bakterite loendamine. Osa 1, Membraanfiltrimise meetod madala bakteriaalse fooniga veele = Water quality : enumeration of Escherichia coli and coliform bacteria. Part 1, Membrane filtration method for waters with low bacterial background flora (ISO 9308-1:2014+ISO 9308-1:2014/Amd 1:2016)**

2017 [https://www.ester.ee/record=b4652098\\*est](https://www.ester.ee/record=b4652098*est)

### **Vee kvaliteet [Võrguteavik] : Escherichia coli ja coli-laadsete bakterite loendamine. Osa 1, Membraanfiltrimise meetod madala bakteriaalse fooniga veele = Water quality : enumeration of Escherichia coli and coliform bacteria. Part 1, Membrane filtration method for waters with low bacterial background flora (ISO 9308-1:2014)**

2015 [http://www.ester.ee/record=b4502748\\*est](http://www.ester.ee/record=b4502748*est)

### **Адаптация E coli к различным температурам морской воды**

Alton, Leelo-Siiri Проблемы современной экологии. [1] : исследования природных экосистем Эстонии : материалы республиканской конференции, проведенной с 11 по 13 декабря 1978 г., [в Тарту] = Problems of contemporary ecology : researches into Estonian natural ecosystems : abstracts of the republican conference held in Tartu, from 11 to 13 December, 1978 1978 / с. 117-118 [https://www.ester.ee/record=b1314403\\*est](https://www.ester.ee/record=b1314403*est)

### **Иммобилизация клеток микроорганизмов с аспартазной активностью. II, Иммобилизация клеток Escherichia coli**

Kalda, Astrid; Vorobjova, L.I. Прикладные вопросы биоорганического катализа 1981 / с. 37-47 : илл [https://www.ester.ee/record=b1345163\\*est](https://www.ester.ee/record=b1345163*est) <https://digikogu.taltech.ee/et/item/8ddb0fc6-18e7-45ab-baea-c94e3b5e53a6>

**Иммобилизация клеток микроорганизмов с аспартазной активностью. Сообщение 3, Воздействие иммобилизации и физических факторов на селективность превращения фумарата аммония биомассой *Escherichia coli* K 12 и *Propionibacterium shermanii***

**Kalda, Astrid; Kala, A.; Köstner, Ado** Кинетические и технологические характеристики биокатализаторов 1982 / с. 67-77

[https://www.ester.ee/record=b1309223\\*est](https://www.ester.ee/record=b1309223*est) <https://digikogu.taltech.ee/et/Item/e5bac84c-77da-4b4f-beba-795a822667c8>

**Использование "фекального коэффициента" при санитарной оценке водоемов (I сообщение)**

**Leesment, Liidia; Murakas, H.; Laja, K.** Сборник докладов седьмой научной конференции 1970 / с. 202-204

[https://www.ester.ee/record=b1362238\\*est](https://www.ester.ee/record=b1362238*est)

**О бензилпенициллинацилазе (*Escherichia coli*), иммобилизованной в поликриламидном геле**

**Köstner, Ado; Kreen, Malle; Mandel, Mihkel; Kleiner, G.** Микробиологическая промышленность : научно-технический реферативный сборник 1973 / с. 1-4 : рис [https://www.ester.ee/record=b2854511\\*est](https://www.ester.ee/record=b2854511*est)

**О выделении и выживаемости энтеропатогенных эшерихий в с[у]точных водах**

**Laja, K.; Leesment, Liidia; Murakas, H.** Научная конференция, посвященная 75-летию кафедры гигиены Тартуского государственного университета и 30-летию Тартуской городской СЭС : [20-21 ноября 1970 г. : материалы] 1970 / с. 103-106

<http://hdl.handle.net/10062/47709> [https://www.ester.ee/record=b1375229\\*est](https://www.ester.ee/record=b1375229*est)

**Получение и свойства иммобилизованных нуклеозидфосфорилаз из *E. COLI***

**Gajevaja, Ljubov** III республиканская конференция молодых ученых-химиков, 15-17 мая 1979 года : тезисы докладов 1979 / с.133-134 [https://www.ester.ee/record=b1280470\\*est](https://www.ester.ee/record=b1280470*est)

**Свойства иммобилизованных нуклеозидфосфорилаз из *E.coli***

**Gajevaja, Ljubov; Köstner, Ado, juhendaja** Получение и свойства иммобилизованных ферментов 1980 / с. 45-53 : илл

[https://www.ester.ee/record=b1344307\\*est](https://www.ester.ee/record=b1344307*est) <https://digikogu.taltech.ee/et/Item/941191f5-8e17-4867-a354-18ae209ca577>

**Эксперты: причина загрязнения воды в Курессааре – ошибки при реконструкции канализационных труб**

rus.err.ee 2025 <https://rus.err.ee/1609635488/jeksperty-prichina-zagriznenija-vody-v-kuressaare-oshibki-pri-rekonstrukcii-kanalizacionnyh-trub>