

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; Öun, 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-TiO2 (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

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

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.delfi.ee/1609636163/pipes-not-flushed-nor-measurements-taken-before-kuressaare-water-pollution)

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 ekspertuuriting tuvastas Kuressaare veereostuse põhjused

ehitusleht.ee 2025 <https://ehitusleht.ee/taltechi-ekspertuuriting-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

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

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

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://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://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

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

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

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

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://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>