

List of Publications

Leo Lahti Phd

2024-01-22

[Huovinen2023] Venla Huovinen, Anna-Katariina Aatsinki, Eeva-Leena Kataja, Eveliina Munukka, Anniina Keskitalo, Santosh Lamichhane, Peppi Raunioniemi, David Bridgett, Leo Lahti, Siobhain O'Mahony, Alex Dickens, Riikka Korja, Hasse Karlsson, Saara Nolvi, Linnea Karlsson. "Infant gut microbiota and negative and fear reactivity". In: *Development and Psychopathology* (2023), pp. 1-16. doi: 10.1017/S0954579423001396.

[MarcosZambrano2023] Laura Marcos-Zambrano, Víctor López-Molina, Burcu Bakir-Gungor, Marcus Frohme, Kanita Karaduzovic-Hadziabdic, Thomas Klammersteiner, Eliana Ibrahimi, Leo Lahti, Tatjana Loncar-Turukalo, Xhilda Dharmo, Andrea Simeon, Alina Nechyporenko, Gianvito Pio, Piotr Przymus, Alexia Sampri, Vladimir Trajkovic, Blanca Lacruz-Pleguezuelos, Oliver Aasmets, Ricardo Araujo, Ioannis Anagnostopoulos, Önder Aydemir, Magali Berland, M. Calle, Michelangelo Ceci, Hatice Duman, Aycan Gündoğdu, Aki Havulinna, Kardokh Bra, Eglantina Kalluci, Sercan Karav, Daniel Lode, Marta Lopes, Patrick May, Bram Nap, Miroslava Nedyalkova, Inês Paciência, Lejla Pasic, Meritxell Pujolassos, Rajesh Shigdel, Antonio Susín, Ines Thiele, Ciprian-Octavian Truică, Paul Wilmes, Ercument Yilmaz, Malik Yousef, Marcus Claesson, Jaak Truu, Enrique Santa Pau. "A toolbox of machine learning software to support microbiome analysis". In: *Frontiers in Microbiology* (2023), pp. No pages available. doi: 10.3389/fmicb.2023.1250806.

[Koponen2023] Kari Koponen, Oleg Kambur, Bijoy Joseph, Matti Ruuskanen, Pekka Jousilahti, Rodolfo Salido, Caitriona Brennan, Mohit Jain, Guillaume Meric, Michael Inouye, Leo Lahti, Teemu Niiranen, Aki Havulinna, Rob Knight, Veikko Salomaa. "{Role of Gut Microbiota in Statin-Associated New-Onset Diabetes—a Cross-Sectional and Prospective Analysis of the FINRISK 2002 Cohort}". In: *{Arteriosclerosis, Thrombosis, and Vascular Biology}* (2023), pp. No pages available. doi: 10.1161/ATVBAHA.123.319458.

[Raulo2023] Aura Raulo, Alexis Rojas, Björn Kröger, Antti Laaksonen, Carlos Orta, Silva Nurmio, Mirva Peltoniemi, Leo Lahti, Indrė Žliobaitė. "What are patterns of rise and decline?". In: *{The Royal Society of Open Science}* (2023), pp. No pages available. doi: 10.1098/rsos.230052.

[Kaisanlahti2023] Anna Kaisanlahti, Jenni Turunen, Nadiya Byts, Anatoliy Samoylenko, Genevieve Bart, Nikke Virtanen, Mysore Tejesvi, Artem Zhyvolozhnyi, Sonia Sarfraz, Sohvi Kumpula, Jenni Hekkala, Sonja Salmi, Olga Will, Johanna Korvala, Niko Paalanen, Pande Erawijantari, Marko Suokas, Tuula Medina, Seppo Vainio, Oula Medina, Leo Lahti, Terhi Tapiainen, Justus Reunanen. "Maternal microbiota communicates with the fetus through microbiota-derived extracellular vesicles". In: *{BMC Microbiome}* (2023), pp. No pages available. doi: 10.1186/s40168-023-01694-9.

[Erawijantari2023] Pande Erawijantari, Ece Kartal, José Liñares-Blanco, Teemu Laajala, Lily Feldman, The Challenge, {ML4Microbiome} Communities, Pedro Carmona-Saez, Rajesh Shigdel, Marcus, Joakim Claesson, Randi Bertelsen, David Gomez-Cabrero, Samuel Minot, Jacob Albrecht, Verena Chung, Michael Inouye, Pekka Jousilahti, Jobst-Hendrik Schultz, Hans-Christoph

Friederich, Rob Knight, Veikko Salomaa, Teemu Niiranen, Aki Havulinna, Julio Saez-Rodriguez, Rebecca Levinson, Leo Lahti. "Microbiome-based risk prediction in incident heart failure: a community challenge". In: {medRxiv preprint} (2023), pp. No pages available. doi: 10.1101/2023.10.12.23296829.

[Husso2023] Aleksi Husso, Tiina Pessa-Morikawa, Ville Mikael, Olli Kärkkäinen, Hyuk Kwon, Leo Lahti, Antti Livanainen, Kati Hanhineva, Mikael Niku. "Impacts of maternal microbiota and microbial metabolites on fetal intestine, brain, and placenta". In: {BMC Biology} (2023), pp. No pages available. doi: 10.1186/s12915-023-01709-9.

[DElia2023] Domenica D'Elia, Jaak Truu, Leo Lahti, Magali Berland, Georgios Papoutsoglou, Michelangelo Ceci, Aldert Zomer, Marta Lopes, Eliana Ibrahimi, Aleksandra Gruca, Alina Nechyporenko, Marcus Frohme, Thomas Carrillo-de Santa Pau, Laura Marcos-Zambrano, Karel Hron, Gianvito Pio, Andrea Simeon, Ramona Suharoschi, Isabel Moreno-Indias, Andriy Temko, Miroslava Nedyalkova, Elena-Simona Apostol, Ciprian-Octavian Truică, Rajesh Shigdel, Jasminka Hasić-Telalović, Erik Bongcam-Rudloff, Piotr Przymus, Naida Jordamović, Laurent Falquet, Sonia Tarazona, Alexia Sampri, Gaetano Isola, David Pérez-Serrano, Vladimir Trajkovik, Lubos Klucar, Tatjana Loncar-Turukalo, Aki Havulinna, Christian Jansen, Randi Claesson. "{Advancing microbiome research with machinelearning:key findings from the ML4Microbiome COST action}". In: Frontiers in Microbiology (2023), pp. No pages available. doi: 10.3389/fmicb.2023.1257002.

[McDonald2023] Daniel McDonald, Yueyu Jiang, Metin Balaban, Kalen Cantrell, Qiyun Zhu, Antonio Gonzalez, James Morton, Giorgia Nicolaou, Donovan Parks, Søren Karst, Mads Albertsen, Philip Hugenholtz, Todd DeSantis, Se-jin Song, Andrew Bartko, Aki Havulinna, Pekka Jousilahti, Susan Cheng, Michael Inouye, Teemu Niiranen, Mohit Jain, Veikko Salomaa, Leo Lahti, Siavash Mirarab, Rob Knight. "Greengenes2 unifies microbial data in a single reference tree". In: Nature Biotechnology (2023), pp. No pages available. doi: 10.1038/s41587-023-01845-1.

[Gao2023] Yu Gao, Yağmur Şimşek, Emma Gheysen, Tuomas Borman, Yi Li, Leo Lahti, Karoline Faust, Daniel Garza. "miaSim: an R/Bioconductor package to easily simulate microbial community dynamics". In: Methods in Ecology and Evolution (2023), pp. 1967-1980. doi: 10.1111/2041-210X.14129.

[Aatsinki2023] Anna-Katariina Aatsinki, Jetro Tuulari, Eveliina Munukka, Leo Lahti, Anniina Keskitalo, Henna-Maria Kailanto, Saara Nolvi, Noora Scheinin, Jani Saunavaara, Riitta Parkkola, John Lewis, Niloofar Hashempour, Satu Shulist, Linnea Karlsson, Hasse Karlsson. "Infant Left Amygdala Volume Is Negatively Associated with Fecal Microbiota Diversity". In: bioRxiv preprint (2023), pp. No pages available. doi: 10.1101/2023.04.23.537273.

[Palmu2023] Joonatan Palmu, Christin Börschel, Alfredo Ortega-Alonso, Markó Lajos, Michael Inouye, Pekka Jousilahti, Rodolfo Salido, Karenina Sanders, Caitriona Brennan, Gregory Humphrey, Jon Sanders, Friederike Gutmann, Dominik Linz, Veikko Salomaa, Aki Havulinna, Sofia Forslund, Rob Knight, Leo Lahti, Teemu Niiranen, Renate Schnabel. "Gut microbiome and atrial fibrillation results from a large population based study". In: {eBioMedicine} (2023), pp. No pages available. doi: 10.1016/j.ebiom.2023.104583.

[Houttu2023] Noora Houttu, Chouaib Benchakra, Mrunalini Lotankar, Ella Muhli, Harri Niinikoski, Leo Lahti, Kirsi Laitinen. "Gut microbiota composition and function in pregnancy as determinants of prediabetes at two years postpartum". In: Acta Diabetologica (2023), pp. No pages available.

doi: 10.1007/s00592-023-02064-5.

[Rahkola2023] Ella Rahkola, Samuli Rautava, Henni Hiltunen, Chandler Ross, Leo Lahti, Erika Isolauri. "The preterm gut microbiota and administration routes of different probiotics: a randomized controlled trial". In: *Pediatric research* (2023), pp. No pages available. doi: 10.1038/s41390-023-02560-y.

[Muhli2023] Ella Muhli, Chouaib Benchakra, Mrunalini Lotankar, Noora Houttu, Harri Niinikoski, Leo Lahti, Kirsi Laitinen. "Aberrations in the early pregnancy serum metabolic profile in women with prediabetes at two years postpartum". In: *Metabolomics* (2023), pp. No pages available. doi: 10.1007/s11306-023-01994-z.

[Ndairou2023] Faïçal Ndaïrou, Moein Khalighi, Leo Lahti. "Ebola epidemic model with dynamic population and memory". In: *Chaos, Solitons and Fractals* (2023), pp. 113361. doi: 10.1016/j.chaos.2023.113361.

[FeldnerBusztin2023] Dylan Feldner-Busztin, Panos Nisantzis, Shelley Edmunds, Gergely Boza, Fernando Racimo, Shyam Gopalakrishnan, Morten Limborg, Leo Lahti, Gonzalo Polavieja. "Dealing with dimensionality: the application of machine learning to multi-omics data". In: *Bioinformatics* (2023), pp. No pages available. doi: 10.1093/bioinformatics/btad021.

[Khalighi2023] Moein Khalighi, Giulio Benedetti, Leo Lahti. "{FdeSolver: A Julia Package for Solving Fractional Differential Equations}". In: *{arXiv}* (2022), pp. No pages available. doi: 10.48550/ARXIV.2212.12550.

[Vaura2022] Felix Vaura, Hyunkyung Kim, Miriam Udler, {FinnGen}, Veikko Salomaa, Leo Lahti, Teemu Niiranen. "Multi-Trait Genetic Analysis Reveals Clinically Interpretable Hypertension Subtypes". In: *Circulation: Genomic and Precision Medicine* (2022), pp. No pages available. doi: 10.1161/CIRCGEN.121.003583.

[Palmu2022] Joonatan Palmu, Emmi Tikkanen, Aki Havulinna, Erkki Vartiainen, Annamari Lundqvist, Matti Ruuskanen, Markus Perola, Mika Ala-Korpela, Pekka Jousilahti, Peter Würtz, Veikko Salomaa, Leo Lahti, Teemu Niiranen. "Comprehensive biomarker profiling of hypertension in 36 985 Finnish individuals". In: *Journal of Hypertension* (2022), pp. 579-587. doi: 10.1097/HJH.0000000000003051.

[Husso2022] Aleksi Husso, Tiina Pessa-Morikawa, Ville Koistinen, Olli Kärkkäinen, Hyuk Kwon, Leo Lahti, Antti Iivanainen, Kati Hanhineva, Mikael Niku. "Impacts of maternal microbiota and microbial metabolites on fetal intestine, brain and placenta". In: *bioRxiv* (2022), pp. No pages available. doi: 10.1101/2022.07.01.498433.

[Liu2022] Yang Liu, Shu Teo, Guillaume Meric, Howard Tang, Qiyun Zhu, Jon Sanders, Yoshiki Vazquez-Baeza, Karin Verspoor, Ville Vartiainen, Pekka Jousilahti, Leo Lahti, Teemu Niiranen, Aki Havulinna, Rob Knight, Veikko Salomaa, Michael Inouye. "The gut microbiome is a significant risk factor for future chronic lung disease". In: *No journal available* (2022), pp. No pages available. doi: No DOI available.

[Khalighi2022] Moein Khalighi, Guilhem Sommeria-Klein, Didier Gonze, Karoline Faust, Leo Lahti. "Quantifying the impact of ecological memory on the dynamics of interacting communities". In: {PLoS Computational Biology} (2022), pp. e1009396. doi: 10.1371/journal.pcbi.1009396.

[Laitinen2022] Ville Laitinen, Leo Lahti. "Probabilistic multivariate early warning signals". In: No journal available (2022), pp. 259-274. doi: 10.1007/978-3-031-15034-0.

[Keskitalo2022] Anniina Keskitalo, Eveliina Munukka, Anna Aatsinki, Wisam Saleem, Noora Kartiosuo, Leo Lahti, Pentti Huovinen, Laura Elo, Sami Pietilä, Suvi Rovio, Harri Niinikoski, Jorma Viikari, Tapani Rönnemaa, Hanna Lagström, Antti Jula, Olli Raitakari, Katja Pahkala. "{An Infancy-Onset 20-Year Dietary Counselling Intervention and Gut Microbiota Composition in Adulthood}". In: Nutrients (2022), pp. 2667. doi: 10.3390/nu14132667.

[Umerle2022] Tomasz Umerle, Giovanni Colavizza, Elżbieta Herden, Rindert Jagersma, Peter Kiraly, Beata Koper, Leo Lahti, David Lindemann, Jakub Łubocki, Vojtěch Malínek, Alexandra Milanova, Róbert Péter, Nanette Rišler-Pipka, Matteo Romanello, Marcin Roszkowski, Dorota Siwecka, Mikko Tolonen, Ondřej Vimr. "{An Analysis of the Current Bibliographical Data Landscape in the Humanities. A Case for the Joint Bibliodata Agendas of Public Stakeholders}". In: Zenodo (2022), pp. No pages available. doi: 10.5281/zenodo.6559857.

[Ruuskanen2022emi] Matti Ruuskanen, Deepti Vats, Renuka Potbhare, Ameeta RaviKumar, Eveliina Munukka, Richa Ashma, Leo Lahti. "Towards standardized and reproducible research in skin microbiomes". In: Environmental Microbiology (2022), pp. 3840--3860. doi: 10.1111/1462-2920.15945.

[Lahti2022] Leo Lahti. "Enhancing biomarkers with co-abundance". In: Nature Computational Science (2022), pp. No pages available. doi: 10.1038/s43588-022-00254-9.

[Houttu2022] Noora Houttu, Kati Morkkala, Wisam Saleem, Seppo Virtanen, Juuso Juhila, Ella Koivuniemi, Outi Pellonperä, Kristiina Tertti, Paula Luokola, Timo Sorsa, Anne Salonen, Leo Lahti, Kirsi Laitinen. "Potential pathobionts in vaginal microbiota are affected by fish oil and/or probiotics intervention in overweight and obese pregnant women". In: {Biomedicine and Pharmacotherapy} (2022), pp. 112841. doi: 10.1016/j.biopha.2022.112841.

[Potbhare2022] Renuka Potbhare, Ameeta RaviKumar, Eveliina Munukka, Leo Lahti, Richa Ashma. "Skin microbiota diversity among genetically unrelated individuals of Indian origin". In: PeerJ (2022), pp. e13075. doi: 10.7717/peerj.13075.

[Eckermann2022] Henrik Eckermann, Yangwenshan Ou, Leo Lahti, Carolina Weerth. "Can gut microbiota throughout the first 10 years of life predict executive functioning in childhood?". In: Developmental Psychobiology (2022), pp. e22226. doi: 10.1002/dev.22226.

[Zhu2022] Qiyun Zhu, Shi Huang, Antonio Gonzalez, Imran McGrath, Daniel McDonald, Niina Haiminen, George Armstrong, Yoshiki Vázquez-Baeza, Julian Yu, Justin Kuczynski, Gregory Sepich-Poore, Austin Swafford, Promi Das, Justin Shaffer, Franck Lejzerowicz, Pedro Belda-Ferre, Aki Havulinna, Guillaume Méric, Teemu Niiranen, Leo Lahti, Veikko Salomaa, Ho-Cheol Kim, Mohit Jain, Michael Inouye, Jack Gilbert, Rob Knight. "Phylogeny-aware analysis of metagenome community ecology based on matched reference genomes while bypassing taxonomy". In:

mSystems (2022), pp. e0016722. doi: 10.1128/msystems.00167-22.

[Lotankar2022] Mrunalini Lotankar, Kati Mekkala, Noora Houttu, Ella Koivuniemi, Nikolaj Sørensen, Henrik Nielsen, Eveliina Munukka, Leo Lahti, Kirsi Laitinen. "Distinct diet-microbiota-metabolism interactions in overweight and obese pregnant women: a metagenomics approach". In: Microbiology Spectrum (2022), pp. e00893-21. doi: 10.1128/spectrum.00893-21.

[Qin2022] Youwen Qin, Aki Havulinna, Yang Liu, Pekka Jousilahti, Scott Ritchie, Alex Tokolyi, Jon Sanders, Liisa Valsta, Marta Brożynańska, Qiyun Zhu, Anupriya Tripathi, Yoshiki Vázquez-Baeza, Rohit Loomba, Susan Cheng, Mohit Jain, Teemu Niiranen, Leo Lahti, Rob Knight, Veikko Salomaa, Michael Inouye, Guillaume Méric. "Combined effects of host genetics and diet on human gut microbiota and incident disease in a single population cohort". In: Nature Genetics (2022), pp. 134--142. doi: 10.1038/s41588-021-00991-z.

[Ruuskanen2022dc] Matti Ruuskanen, Pande Erawijantari, Aki Havulinna, Yang Liu, Guillaume Méric, Jaakko Tuomilehto, Michael Inouye, Pekka Jousilahti, Veikko Salomaa, Mohit Jain, Rob Knight, Leo Lahti*, Teemu Niiranen*. "Gut microbiome composition is predictive of incident type 2 diabetes in a population cohort of 5 572 Finnish adults". In: Diabetes Care (2022), pp. 811--818. doi: 10.2337/dc21-2358.

[Armstrong2021] George Armstrong, Kalen Cantrell, Shi Huang, Daniel McDonald, Niina Haiminen, Anna Carrieri, Qiyun Zhu, Antonio Gonzalez, Imran McGrath, Kristen Beck, Daniel Hakim, Aki Havulinna, Guillaume Méric, Teemu Niiranen, Leo Lahti, Veikko Salomaa, Mohit Jain, Michael Inouye, Austin Swafford, Ho-Cheol Kim, Laxmi Parida, Yoshiki Vázquez-Baeza, Rob Knight. "Efficient computation of {Faith's} phylogenetic diversity with applications in characterizing microbiomes". In: Genome Research (2021), pp. 2131--2137. doi: 10.1101/gr.275777.121.

[Mekkala2021] Kati Mekkala, Tero Vahlberg, Noora Houttu, Ella Koivuniemi, Leo Lahti, Kirsi Laitinen. "Impact of combined consumption of fish oil and probiotics on the serum metabolome in pregnant women with overweight or obesity". In: Ebiomedicine (2021), pp. 103655. doi: 10.1016/j.ebiom.2021.103655.

[Laitinen2021ews] Ville Laitinen, Vasilis Dakos, Leo Lahti. "Probabilistic early warning signals". In: {Ecology and Evolution} (2021), pp. 14101--14114. doi: 10.1002/ece3.8123.

[Arani2021] Babak Arani, Egbert Nes, Leo Lahti, Stephen Carpenter, Marten Scheffer. "Exit Time as a Measure of Ecological Resilience". In: Science (2021), pp. eaay4895. doi: 10.1126/science.aay4895.

[Hintikka2021] Jukka Hintikka, Sanna Lensu, Elina Mäkinen, Sira Karvinen, Marjaana Honkanen, Jere Lindén, Tim Garrels, Satu Pekkala, Leo Lahti. "Xylo-Oligosaccharides in Prevention of Hepatic Steatosis and Adipose Tissue Inflammation: Associating Taxonomic and Metabolomic Patterns in Fecal Microbiomes with Biclustering". In: International Journal of Environmental Research and Public Health (2021), pp. 4049. doi: 10.3390/ijerph18084049.

[Keskitalo2021] Anniina Keskitalo, Anna-Katariina Aatsinki, Susanna Kortessluoma, Juho Peltö, Laura Korhonen, Leo Lahti, Minna Lukkarinen, Eveliina Munukka, Hasse Karlsson, Linnea Karlsson. "Gut microbiota diversity but not composition is related to saliva cortisol stress response at the age of 2.5 months". In: *Stress* (2021), pp. 551--560. doi: 10.1080/10253890.2021.1895110.

[Lahti2021bioc] Leo Lahti, Felix Ernst, Sudarshan Shetty, others. "Microbiome data science in the SummarizedExperiment universe". In: *F1000Research* (2021), pp. No pages available. doi: 10.7490/f1000research.1118712.1.

[Makela2021hs] Eetu Mäkelä, Leo Lahti, Johanna Lilja, Pekka Heikkinen. "Laki estää tehokkaiden tutkimusmenetelmien käytön". In: No journal available (2021), pp. No pages available. doi: No DOI available.

[MarcosZambrano2021] Laura Marcos-Zambrano, Kanita Karaduzovic-Hadziabdic, Tatjana Turukalo, Piotr Przymus, Vladimir Trajkovic, Oliver Aasmets, Magali Berland, Aleksandra Gruca, Jasminka Hasic, Karel Hron, Thomas Klammsteiner, Mikhail Kolev, Leo Lahti, Marta Lopes, Victor Moreno, Irina Naskinova, Elin Org, Inês Paciência, Georgios Papoutsoglou, Rajesh Shigdel, Blaz Stres, Baiba Vilne, Malik Yousef, Eftim Zdravevski, Ioannis Tsamardinos, Enrique Santa Pau, Marcus Claesson, Isabel Moreno-Indias, Jaak Truu. "Applications of Machine Learning in Human Microbiome Studies: A Review on Feature Selection, Biomarker Identification, Disease Prediction and Treatment". In: *Frontiers in Microbiology* (2021), pp. 313. doi: 10.3389/fmicb.2021.634511.

[MorenoIndias2021] Isabel Moreno-Indias, Leo Lahti, Miroslava Nedyalkova, Ilze Elbere, Gennady Roshchupkin, Muhamed Adilovic, Onder Aydemir, Burcu Bakir-Gungor, Enrique Pau, Domenica D'Elia, Magesh Desai, Laurent Falquet, Aycan Gundogdu, Karel Hron, Thomas Klammsteiner, Marta Lopes, Laura Zambrano, Cláudia Marques, Michael Mason, Patrick May, Lejla Pašić, Gianvito Pio, Sándor Pongor, Vasilis Promponas, Piotr Przymus, Julio Sáez-Rodríguez, Alexia Sampri, Rajesh Shigdel, Blaz Stres, Ramona Suharoschi, Jaak Truu, Ciprian-Octavian Truică, Baiba Vilne, Dimitrios Vlachakis, Ercüment Yilmaz, Georg Zeller, Aldert Zomer, David Gómez-Cabrero, Marcus Claesson. "Statistical and machine learning techniques in human microbiome studies: contemporary challenges and solutions". In: *Frontiers in Microbiology* (2021), pp. 277. doi: 10.3389/fmicb.2021.635781.

[Palmu2021ijerph] Joonatan Palmu, Leo Lahti, Teemu Niiranen. "Targeting gut microbiota to treat hypertension: a systematic review". In: *International Journal of Environmental Research and Public Health* (2021), pp. 1248. doi: 10.3390/ijerph18031248.

[Ruuskanen2021] Matti Ruuskanen, Guilhem Sommeria-Klein, Aki Havulinna, Teemu Niiranen, Leo Lahti. "Modeling spatial patterns in host-associated microbial communities". In: *Environmental Microbiology* (2021), pp. 2374--2388. doi: 10.1111/1462-2920.15462.

[Ruuskanen2021gutmicrobes] Matti Ruuskanen, Fredrik Åberg, Ville Männistö, Aki Havulinna, Guillaume Méric, Yang Liu, Rohit Loomba, Yoshiki Vázquez-Baeza, Anupriya Tripathi, Liisa Valsta, Michael Inouye, Pekka Jousilahti, Veikko Salomaa, Mohit Jain, Rob Knight, Leo Lahti, Teemu Niiranen. "Links between gut microbiome composition and fatty liver disease in a large population sample". In: *Gut Microbes* (2021), pp. No pages available. doi: 10.1080/19490976.2021.1888673.

[Salosensaari2021] Aaro Salosensaari, Ville Laitinen, Aki Havulinna, Guillaume Meric, Susan Cheng, Markus Perola, Liisa Valsta, Georg Alfthan, Michael Inouye, Jeramie Watrous, Tao Long, Rodolfo Salido, Karenina Sanders, Caitriona Brennan, Gregory Humphrey, Jon Sanders, Mohit Jain, Pekka Jousilahti, Veikko Salomaa, Rob Knight, Leo Lahti, Teemu Niiranen. "Taxonomic signatures of cause-specific mortality risk in human gut microbiome". In: *Nature Communications* (2021), pp. 2671. doi: 10.1038/s41467-021-22962-y.

[Sarhadi2021] Virinder Sarhadi, Binu Mathew, Arto A, Tiina Karla, Milja Tikkanen, Hilpi Rautelin, Leo Lahti, Pauli Puolakkainen, Sakari Knuutila. "Gut microbiota of patients with different subtypes of gastric cancer and gastrointestinal stromal tumors". In: *Gut Pathogens* (2021), pp. 1--9. doi: 10.1186/s13099-021-00403-x.

[Tolonen2021canon] Mikko Tolonen, Mark Hill, Ali Ijaz, Ville Vaara, Leo Lahti. "Examining the Early Modern Canon: The English Short Title Catalogue and Large-Scale Patterns of Cultural Production.". In: *No journal available* (2021), pp. No pages available. doi: 10.1007/978-3-030-54913-8_3.

[Tiihonen2021chr] Iiro Tiihonen, Mikko Tolonen, Leo Lahti. "Probabilistic Analysis of Early Modern British Book Prices". In: *No journal available* (2021), pp. 39--48. doi: No DOI available.

[Tolonen2021rc1] Mikko Tolonen, Eetu Mäkelä, Ali Ijaz, Leo Lahti. "Corpus Linguistics and Eighteenth Century Collections Online (ECCO)". In: *Research in Corpus Linguistics* (2021), pp. 19--34. doi: 10.32714/rc1.09.01.03.

[crossys2021] Marja Heiskanen, Sanna Honkala, Ronja Ojala, Riikka Lautamäki, Kalle Koskensalo, Martin Lietzén, Jaakko Hentilä, Virva Saunavaara, Jani Saunavaara, Mika Helmiö, Eliisa Löyttyniemi, Lauri Nummenmaa, Maria Collado, Tarja Malm, Leo Lahti, Kirsi Pietiläinen, Jaakko Kaprio, Juha Rinne, Jarna Hannukainen. "Systemic cross-talk between brain, gut, and peripheral tissues in glucose homeostasis: effects of exercise training (CROSSYS): Exercise training intervention in monozygotic twins discordant for body weight". In: *BMC Sports Science, Medicine and Rehabilitation* (2021), pp. 16. doi: 10.1186/s13102-021-00241-z.

[Liu2022liver] Yang Liu, Guillaume Méric, Aki Havulinna, Shu Teo, Fredrik Åberg, Matti Ruuskanen, Jon Sanders, Qiyun Zhu, Anupriya Tripathi, Karin Verspoor, Susan Cheng, Mohit Jain, Pekka Jousilahti, Yoshiki Vázquez-Baeza, Rohit Loomba, Leo Lahti, Teemu Niiranen, Veikko Salomaa, Rob Knight, Michael Inouye. "Early prediction of liver disease using conventional risk factors and gut microbiome-augmented gradient boosting". In: *Cell Metabolism* (2022), pp. 719-730.e4. doi: 10.1016/j.cmet.2022.03.002.

[Aatsinki2020] Anna-Katariina Aatsinki, Anniina Keskitalo, Ville Laitinen, Eveliina Munukka, Henna-Maria Uusitupa, Leo Lahti, Susanna Korttesluoma, Paula Mustonen, Ana Rodrigues, Bárbara Coimbra, Pentti Huovinen, Hasse Karlsson, Linnea Karlsson. "Maternal prenatal psychological distress and hair cortisol levels associate with infant fecal microbiota composition at 2.5 months of age". In: *Psychoneuroendocrinology* (2020), pp. 104754. doi: 10.1016/j.psyneuen.2020.104754.

[Khalighi2021] Moein Khalighi, Leila Eftekhari, Soleiman Hosseinpour, Leo Lahti. "Three-species Lotka-Volterra model with respect to Caputo and Caputo-Fabrizio fractional operators". In: *Symmetry* (2020), pp. 368. doi: 10.3390/sym13030368.

[Koffert2020] Jukka Koffert, Leo Lahti, Lotta Nylund, Seppo Salminen, Jarna Hannukainen, Paulina Salminen, Willem Vos, Pirjo Nuutila. "Partial restoration of normal intestinal microbiota in morbidly obese women six months after bariatric surgery". In: PeerJ Life and Environment (2020), pp. e10442. doi: 10.7717/peerj.10442.

[Lahti2020chr] Leo Lahti, Eetu Mäkelä, Mikko Tolonen. "Quantifying bias and uncertainty in historical data collections with probabilistic programming". In: No journal available (2020), pp. 80--89. doi: No DOI available.

[Lahti2020hs1] Leo Lahti, Thomas Wallgren, Markku Kulmala. "Laskentamallit eivät lähtökohtaisesti ole salassa pidettävää tietoa". In: HS Mieli (2020), pp. No pages available. doi: No DOI available.

[Lahti2020hs2] Leo Lahti. "Lähdekoodin sisältämien yksityiskohtien avoimuus on keskeistä päätöksenteon läpinäkyvyydelle.". In: HS Mieli (2020), pp. No pages available. doi: No DOI available.

[Lahti2020okf1] Leo Lahti, Tarmo Toikkanen. "Tietopyyntö epidemialaskelmien lähdekoodista". In: Open Knowledge Finland Blog (2020), pp. No pages available. doi: No DOI available.

[Lahti2020okf2] Leo Lahti. "Päätös epidemialaskelmien salaamisesta vastoin valtioneuvoston avoimuuslinjausta". In: Open Knowledge Finland Blog (2020), pp. No pages available. doi: No DOI available.

[Lahti2020thinkopen] Leo Lahti. "Avoimuus voi vahvistaa päätöksenteon tieteellistä pohjaa". In: University of Helsinki, ThinkOpen blog (2020), pp. No pages available. doi: No DOI available.

[Makela2020] E Mäkelä, K Lagus, L Lahti, T Säily, M Tolonen, M Hämäläinen, S Kaislaniemi, T Nevalainen. "Wrangling with Non-Standard Data". In: No journal available (2020), pp. 81--96. doi: No DOI available.

[Nylund2020] Lotta Nylund, Salla Hakkola, Leo Lahti, Seppo Salminen, Marko Kalliomäki, Baoru Yang, Kaisa Linderborg. "Diet, perceived intestinal well-being, fecal microbiota and short chain fatty acids in oat-using subjects with celiac disease or gluten sensitivity.". In: Nutrients (2020), pp. 2570. doi: 10.3390/nu12092570.

[Palmu2020] Joonatan Palmu, Aaro Salosensaari, Aki Havulinna, Susan Cheng, Michael Inouye, Mohit Jain, Rodolfo Salido, Karenina Sanders, Caitriona Brennan, Gregory Humphrey, Jon Sanders, Erkki Vartiainen, Tiina Laatikainen, Pekka Jousilahti, Veikko Salomaa, Rob Knight, Leo Lahti, Teemu Niiranen. "Association Between the Gut Microbiota and Blood Pressure in a Population Cohort of 6953 Individuals". In: Journal of the American Heart Association (2020), pp. No pages available. doi: 10.1161/JAHA.120.016641.

[Palmu2020JAHA] Joonatan Palmu, others. "Eicosanoid Inflammatory Mediators Are Robustly Associated with Blood Pressure in the General Population". In: Journal of American Heart Association (2020), pp. e016641. doi: 10.1161/JAHA.120.017598.

[Pekkala2020] Sanna Lensu, Raghunath Pariyani, Elina Mäkinen, Baoru Yang, Wisam Saleem, Eveliina Munukka, Maarit Lehti, Baoru Yang, Jere Linden, Marja Tiirola, Leo Lahti, Satu Pekkala. "Prebiotic Xylo-oligosaccharides Targeting Faecalibacterium prausnitzii Prevent High Fat Diet-induced Hepatic Steatosis in Rats". In: *Nutrients* (2020), pp. 3225. doi: 10.3390/nu12113225.

[Sarhadi2020] V Sarhadi, L Lahti, F Saberi, O Youssef, A Kokkola, T Karla, M Tikkanen, H Rautelin, P Puolakkainen, R Salehi, S Knuutila. "Gut Microbiota and Host Gene Mutations in Colorectal Cancer Patients and Controls of Iranian and Finnish Origin". In: *Anticancer Research* (2020), pp. 1325--1334. doi: 10.21873/anticancer.14074.

[Vaura2020jch] Felix Vaura, Veikko Salomaa, Ilkka Kantola, Risto Kaaja, Leo Lahti, Teemu Niiranen. "Unsupervised hierarchical clustering identifies a metabolically challenged subgroup of hypertensive individuals". In: *Journal of Clinical Hypertension* (2020), pp. 1546--1553. doi: 10.1111/jch.13984.

[openedu2020] Expert Finland). "National policy and executive plan by the higher education and research community for 2021-2025 - Policy component 1: Open access to educational resources.". In: *Responsible Research Series* (2020), pp. No pages available. doi: No DOI available.

[Aatsinki2019] Anna Aatsinki, Leo Lahti, Henna Uusitupa, Eveliina Munukka, Saara Anniina Keskitalo, Siobhain O'Mahony, Sami Pietilä, Laura Elo, Erkki Eerola, Hasse Karlsson, Linnea Karlsson. "Gut microbiota composition is associated with temperament traits in infants". In: *Brain Behavior and Immunity* (2019), pp. 849--858. doi: 10.1016/j.bbi.2019.05.035.

[Hill2019dhn] Mark Hill, Ville Vaara, Tanja Säily, Leo Lahti, Mikko Tolonen. "Reconstructing intellectual networks: from the {ESTC}'s bibliographic metadata to historical material". In: No journal available (2019), pp. 201--219. doi: No DOI available.

[Ijaz2019dh] Ali Ijaz, Hege Roivainen, Leo Lahti. "Analytical Edition Detection In Bibliographic Metadata". In: No journal available (2019), pp. No pages available. doi: No DOI available.

[Ijaz2019rdhum] Ali Ijaz, Mikko Tolonen, Leo Lahti. "Analytical determination of editions from bibliographic metadata". In: No journal available (2019), pp. No pages available. doi: No DOI available.

[Lahti2019bds] Leo Lahti, Jani Marjanen, Hege Roivainen, Mikko Tolonen. "Bibliographic Data Science and the History of the Book (c. 1500–1800)". In: *Cataloging and Classification Quarterly* (2019), pp. 5--23. doi: 10.1080/01639374.2018.1543747.

[Lahti2019rdhum] Leo Lahti, Ville Vaara, Jani Marjanen, Mikko Tolonen. "Best practices in bibliographic data science". In: No journal available (2019), pp. No pages available. doi: No DOI available.

[Makela2019dhn] Eetu Mäkelä, Mikko Tolonen, Jani Marjanen, Antti Kanner, Ville Vaara, Leo Lahti. "Interdisciplinary collaboration in studying newspaper materiality". In: No journal available (2019), pp. 55--66. doi: No DOI available.

[Marjanen2019] Jani Marjanen, Ville Vaara, Antti Kanner, Hege Roivainen, Eetu Mäkelä, Leo Lahti, Mikko Tolonen. "A National Public Sphere? Analyzing the Language, Location, and Form of Newspapers in Finland, 1771–1917". In: *Journal of European Periodical Studies* (2019), pp. No pages available. doi: 10.21825/jeps.v4i1.10483.

[Shetty2019] Sudarshan Shetty, Leo Lahti. "Microbiome data science". In: *Journal of Biosciences* (2019), pp. 115. doi: 10.1007/s12038-019-9930-2.

[Timmis2019] K Timmis, F Jebok, M Rohde, L Lahti, G Molinari. "Microbiome yarns: The Global Phenotype-Genotype Survey. Episode III: importance of microbiota diversification for microbiome function and biome health". In: *Microbial Biotechnology* (2019), pp. No pages available. doi: 10.1111/1751-7915.13406.

[Tolonen2019dhn] Mikko Tolonen, Jani Marjanen, Hege Roivainen, Leo Lahti. "Scaling up bibliographic data science". In: No journal available (2019), pp. No pages available. doi: No DOI available.

[Vaara2019dh] Ville Vaara, Ali Ijaz, Iiro Tiihonen, Simon Hengchen, Antti Kanner, Tanja Säily, Leo Lahti. "The Emerging Paradigm of Bibliographic Data Science". In: No journal available (2019), pp. No pages available. doi: No DOI available.

[stolaki2019] Maria Stolaki, Mans Minekus, Koen Venema, Leo Lahti, Eddy Smid, Michiel Kleerebezem, Erwin Zoetendal. "Microbial communities in a dynamic {it in vitro} model for the human ileum resemble the human ileal microbiota". In: *FEMS Microbiology Ecology* (2019), pp. fiz096. doi: 10.1093/femsec/fiz096.

[tolonen2019] Mikko Tolonen, Leo Lahti, Hege Roivainen, Jani Marjanen. "A Quantitative Approach to Book-Printing in Sweden and Finland, 1640–1828". In: *Historical Methods: A Journal of Quantitative and Interdisciplinary History* (2019), pp. 57--78. doi: 10.1080/01615440.2018.1526657.

[Aatsinki2018] Anna-Katariina Aatsinki, Henna-Maria Uusitupa, Eveliina Munukka, Henri Pesonen, Anniina Rintala, Sami Pietilä, Leo Lahti, Erkki Eerola, Linnea Karlsson, Hasse Karlsson. "Gut Microbiota Composition in Mid-Pregnancy Is Associated with Gestational Weight Gain but Not Prepregnancy Body Mass Index". In: *Journal of Womens Health* (2018), pp. No pages available. doi: 10.1089/jwh.2017.6488.

[Arani2018] Babak Arani, Mahdi Mahmoudi, Leo Lahti, Javier González, Ernst Wit. "Stability estimation of autoregulated genes under {Michaelis-Menten} type kinetics". In: *Physical Review E* (2018), pp. 062407. doi: 10.1103/PhysRevE.97.062407.

[Bjork2018] Anna Björk, Juho-Matti Paavolainen, Teemu Ropponen, Mikael Laakso, Leo Lahti. "Opening academic publishing: development and application of systematic evaluation criteria". In: No journal available (2018), pp. No pages available. doi: No DOI available.

[Faust2018] Karoline Faust, Franziska Bauchinger, Beatrice Laroche, Sophie Buyl, Leo Lahti, Alex Washburne, Didier Gonze, Stefanie Widder. "Signatures of ecological processes in microbial community time series". In: *Microbiome* (2018), pp. No pages available. doi: 10.1186/s40168-018-0496-2.

[Gonze2018] Didier Gonze, Katharine Coyte, Leo Lahti, Karoline Faust. "Microbial communities as dynamical systems". In: *Current Opinion in Microbiology* (2018), pp. 41--49. doi: 10.1016/j.mib.2018.07.004.

[Hill2018] Mark Hill, Antti Kanner, Jani Marjanen, Ville Vaara, Eetu Mäkelä, Leo Lahti, Mikko Tolonen. "Spheres of "public" in eighteenth-century Britain". In: No journal available (2018), pp. No pages available. doi: No DOI available.

[Lahti2018IDA] Leo Lahti. "Open Data Science". In: No journal available (2018), pp. No pages available. doi: No DOI available.

[Laitinen2018IDA] Ville Laitinen, Leo Lahti. "A hierarchical Ornstein-Uhlenbeck model for stochastic time series analysis". In: No journal available (2018), pp. No pages available. doi: No DOI available.

[Tolonen2018gaudeamus] Mikko Tolonen, Leo Lahti. "Digitaaliset ihmistieteet ja historiantutkimus". In: *Menneisyyden rakentajat* (2018), pp. No pages available. doi: No DOI available.

[Youssef2018] Omar Youssef, Leo Lahti, Arto Kokkola, Tiina Karla, Milja Tikkanen, Homa Ehsan, Monika Carpelan-Holmström, Selja Koskensalo, Tom Böhling, Hilpi Rautelin, Pauli Puolakkainen, Sakari Knuutila, Virinder Sarhadi. "Stool Microbiota Composition Differs in Patients with Stomach, Colon, and Rectal Neoplasms". In: *Digestive Diseases and Sciences* (2018), pp. 2950--2958. doi: 10.1007/s10620-018-5190-5.

[openutu2018] {OpenUTU work group}. "Turun yliopiston avoimen tutkimuksen politiikka / Open Research Policy". In: unknown (2018), pp. No pages available. doi: No DOI available.

[Buelow2017] Elena Buelow, Teresita González, Susana Fuentes, Wouter {de Steenhuijsen Piters}, Leo Lahti, Jumamurat Bayjanov, Eline Majoor, Johanna Braat, Maaïke Mourik, Evelien Oostdijk, Rob Willems, Marc Bonten, Mark Passel, Hauke Smidt, Willem Schaik. "Comparative gut microbiota and resistome profiling of intensive care patients receiving selective digestive tract decontamination and healthy subjects". In: *Microbiome* (2017), pp. 88. doi: 10.1186/s40168-017-0309-z.

[Faust2017] Didier Gonze, Leo Lahti, Jeroen Raes, Karoline Faust. "Multi-stability and the origin of microbial community types". In: *{ISME Journal}* (2017), pp. 2159--2166. doi: 10.1038/ismej.2017.60.

[Harris17] Keith Harris, Todd Parsons, Umer Ijaz, Leo Lahti, Ian Holmes, Christopher Quince. "Linking statistical and ecological theory: Hubbell's unified neutral theory of biodiversity as a hierarchical Dirichlet process". In: *Proceedings of the IEEE* (2017), pp. 516--529. doi: 10.1109/JPROC.2015.2428213.

[Lahti17eurostat] Leo Lahti, Janne Huovari, Markus Kainu, Przemysław Biecek. "Retrieval and Analysis of Eurostat Open Data with the eurostat Package". In: *The R Journal* (2017), pp. 385--392. doi: No DOI available.

[Lahti17phos] Leo Lahti, Filipe Silva, Markus Laine, Viivi Lähteenoja, Mikko Tolonen. "Alchemy and algorithms: perspectives on the philosophy and history of open science". In: *RIO Journal* (2017), pp. e13593. doi: 10.3897/rio.3.e13593.

[Shetty2017] SA Shetty, F Hugenholtz, L Lahti, H Smidt, WM Vos, A Danchin. "Intestinal microbiome landscaping: Insight in community assemblage and implications for microbial modulation strategies". In: *FEMS Microbiology Reviews* (2017), pp. 182--199. doi: 10.1093/femsre/fuw045.

[Tolonen16dh] Mikko Tolonen, Niko Ilomäki, Hege Roivainen, Leo Lahti. "Printing in a Periphery: a Quantitative Study of Finnish Knowledge Production, 1640-1828". In: No journal available (2016), pp. 383--385. doi: No DOI available.

[Aleksic14] Jelena Aleksic, Adrian Alexa, Teresa Attwood, Neil Hong, Martin Dahlöf, Robert Davey, Holger Dinkel, Konrad Förstner, Ivo Grigorov, Jean-Karim Hériché, Leo Lahti, Dan MacLean, Michael Markie, Jenny Molloy, Maria Schneider, Camille Scott, Richard Smith-Unna, Bruno Vieira. "The Open Science Peer Review Oath". In: *F1000Research* (2015), pp. 271. doi: 10.12688/f1000research.5686.2.

[Faust15] Karoline Faust, Leo Lahti, Didier Gonze, Willem Vos, Jeroen Raes. "Metagenomics meets time series analysis: unraveling microbial community dynamics". In: *Current Opinion in Microbiology* (2015), pp. 56--66. doi: 10.1016/j.mib.2015.04.004.

[Lahti15LIBER] Leo Lahti, Niko Ilomäki, Mikko Tolonen. "A quantitative study of history in the English short-title catalogue (ESTC) 1470-1800". In: *LIBER Quarterly* (2015), pp. 87--116. doi: 10.18352/lq.10112.

[Laine15] Heidi Laine, Leo Lahti, Anne Lehto, Samuli Ollila, Markus Miettinen. "Beyond Open Access - The Changing Culture of Producing and Disseminating Scientific Knowledge". In: No journal available (2015), pp. No pages available. doi: No DOI available.

[O'Keefe15] SJD O'Keefe, JV Li, L Lahti, J Ou, F Carbonero, K Mohammed, JM Posma, J Kinross, E Wahl, E Ruder, K Vippera, V Naidoo, L Mtshali, S Tims, J PGB Puylaert, A Krasinskas, AC Benefiel, HO Kaseb, K Newton, JK Nicholson, WM Vos, HR Gaskins, EG Zoetendal. "Fat, Fiber and Cancer Risk in African, Americans and Rural Africans". In: *Nature Communications* (2015), pp. 6342. doi: 10.1038/ncomms7342.

[Ritari15] Jarmo Ritari, Jarkko Salojärvi, Leo Lahti, Willem Vos. "Improved taxonomic assignment of human intestinal 16S rRNA sequences by a dedicated reference database". In: *BMC Genomics* (2015), pp. 1056. doi: 10.1186/s12864-015-2265-y.

[Siavash15] Siavash Atashgahi, Rozelin Aydin, Mauricio Dimitrov, Detmer Sipkema, Kelly Hamonts, Leo Lahti, Farai Maphosa, Thomas Kruse, Edoardo Saccenti, Winnie Dirk Springael, Hauke Smidt. "Impact of a wastewater treatment plant on microbial community composition and function in a hyporheic zone of a eutrophic river". In: Scientific Reports (2015), pp. No pages available. doi: 10.1038/srep17284.

[Su2015] Jing Su, Carl Ekman, Nikolay Oskolkov, Leo Lahti, Kristoffer Ström, Alvis Brazma, Leif Groop, Johan Rung, Ola Hansson. "A novel atlas of gene expression in human skeletal muscle reveals molecular changes associated with aging". In: Skeletal Muscle (2015), pp. No pages available. doi: 10.1186/s13395-015-0059-1.

[Tolonen15EnnenNyt] Mikko Tolonen, Leo Lahti. "Aatehistoria ja digitaalisten aineistojen mahdollisuudet". In: Ennen and Nyt 2 (2015), pp. No pages available. doi: No DOI available.

[Alneberg14] Johannes Alneberg, Brynjar Bjarnason, Ino Bruijn, Melanie Schirmer, Joshua Quick, Umer Ijaz, Leo Lahti, Nicholas Loman, Anders Andersson, Christopher Quince. "Binning metagenomic contigs by coverage and composition". In: Nature Methods (2014), pp. No pages available. doi: 10.1038/nmeth.3103.

[Louhimo14] Riku Louhimo, Viljami Aittomäki, Ali Faisal, Marko Laakso, Ping Chen, Kristian Ovaska, Erkka Valo, Leo Lahti, Vladimir Rogojin, Samuel Kaski, Sampsa Hautaniemi. "Systematic Use of Computational Methods Allows Stratifying Treatment Responders in Glioblastoma Multiforme". In: Systems Biomedicine (special issue) (2014), pp. 130--136. doi: 10.4161/sysb.28904.

[lahti14natcomm] Leo Lahti, Jarkko Salojärvi, Anne Salonen, Marten Scheffer, Willem Vos. "Tipping elements in the human intestinal ecosystem". In: Nature Communications (2014), pp. 4344. doi: 10.1038/ncomms5344.

[salonen14] Anne Salonen, Leo Lahti, Jarkko Salojärvi, Grietje Holtrop, Katri Korpela, Sylvia Duncan, Priya Date, Alexandra Johnstone, Gerald Lobley, Petra Louis, Harry Flint, Willem Vos. "Impact of diet and individual variation on intestinal microbiota composition and fermentation products in obese men". In: ISME Journal (2014), pp. 2218--2230. doi: 10.1038/ismej.2014.63.

[sarhadi14] Virinder Sarhadi, Leo Lahti, Ilari Scheinin, Pekka Ellonen, Eeva Kettunen, Massimo Serra, Katia Scotlandi, Pierro Picci, Sakari Knuutila. "Copy Number Alterations and Neoplasia Specific Mutations in MELK, PDCD1LG2, TLN1, and PAX5 at 9p in Different Neoplasias". In: Genes, Chromosomes and Cancer (2014), pp. 579--588. doi: 10.1002/gcc.22168.

[Lahti13icml] Joona Leo Lahti, Markus Kainu. "rOpenGov: open source ecosystem for computational social sciences and digital humanities". In: No journal available (2013), pp. No pages available. doi: No DOI available.

[Lahti13nar] Leo Lahti, Aurora Torrente, Laura Elo, Alvis Brazma, Johan Rung. "A fully scalable online pre-processing algorithm for short oligonucleotide microarray atlases". In: Nucleic Acids Research (2013), pp. e110. doi: 10.1093/nar/gkt229.

[Lahti13provasI] Leo Lahti, Anne Salonen, Riina Kekkonen, Jarkko Salojärvi, Jonna Jalanka-Tuovinen, Airi Palva, Matej Orešič, Willem Vos. "Associations between the human intestinal microbiota, *Lactobacillus rhamnosus* GG and serum lipids indicated by integrated analysis of high-throughput profiling data". In: PeerJ (2013), pp. e32. doi: 10.7717/peerj.32.

[Lahti2012intcomp] Leo Lahti, Martin Schöfer, Hans-Ulrich Klein, Silvio Bicciato, Martin Dugas. "Cancer gene prioritization by integrative analysis of mRNA expression and DNA copy number data: a comparative review". In: Briefings in Bioinformatics (2013), pp. 27--35. doi: 10.1093/bib/bbs005.

[Sarhadi13] Virinder Sarhadi, Leo Lahti, Ilari Scheinin, Anne Tyybäckinoja, Suvi Savola, Anu Usvasalo, Riikka Rättö, Erkki Elonen, Pekka Ellonen, Ulla Saarinen-Pihkala, Sakari Knuutila. "Targeted Resequencing of 9p in Acute Lymphoblastic Leukemia Yields Concordant Results with Array CGH and Reveals Novel Genomic Alterations". In: Genomics (2013), pp. 182--188. doi: 10.1016/j.ygeno.2013.01.001.

[bender13] Leo Lahti. "Intestinal microbiota, individuality and health. In: Computational Methods Aiding Early-Stage Drug Design (Dagstuhl Seminar 13212)". In: Dagstuhl Reports (2013), pp. 78--94. doi: 10.4230/DagRep.3.5.78.

[Lahti12cmi] Anne Salonen, Jarkko Salojärvi, Leo Lahti, Vos. "The adult intestinal core microbiota is determined by analysis depth and health status". In: Clinical Microbiology and Infection (2012), pp. 16-20. doi: 10.1111/j.1469-0691.2012.03855.x.

[Mosakhani12] Neda Mosakhani, Leo Lahti, Ioana Borze, Marja-Liisa Karjalainen-Lindsberg, Jari Sundstrom, Raija Ristamaki, Pia Osterlund, Sakari Knuutila, Virinder Kaur Sarhadi. "MicroRNA profiling predicts survival in anti-EGFR treated chemorefractory metastatic colorectal cancer patients with wild-type KRAS and BRAF". In: Cancer Genetics (2012), pp. 545--51. doi: 10.1016/j.cancergen.2012.08.003.

[Mosakhani12LL] N Mosakhani, VK Sarhadi, A Usvasalo, ML Karjalainen-Lindsberg, L Lahti, K Tuononen, UM Saarinen-Pihkala, S Knuutila. "MicroRNA profiling in pediatric acute lymphoblastic leukemia: novel prognostic tools". In: {Leukemia and Lymphoma} (2012), pp. 2517--2520. doi: 10.3109/10428194.2012.685731.

[Niini12] Tarja Niini, Ilari Scheinin, Leo Lahti, Suvi Savola, Fredrik Mertens, Jaakko Hollmén, Tom Böhling, Aarne Kivioja, Karolin Nord, Sakari Knuutila. "Homozygous Deletions of Cadherin Genes in Chondrosarcoma – an Array CGH Study". In: Cancer Genetics (2012), pp. 588--93. doi: 10.1016/j.cancergen.2012.09.007.

[Borze11] Ioana Borze, Mohamed Guled, Suad Musse, Anna Raunio, Erkki Elonen, Ulla Saarinen-Pihkala, Marja-Liisa Karjalainen-Lindsberg, Leo Lahti, Sakari Knuutila. "MicroRNA microarrays on archive bone marrow core biopsies of leukemias - method validation". In: Leukemia Research (2011), pp. 188--195. doi: 10.1016/j.leukres.2010.08.005.

[Faisal2011] Ali Faisal, Riku Louhimo, Leo Lahti, Sampsa Hautaniemi, Samuel Kaski. "Biomarker discovery via dependency analysis of multi-view functional genomics data". In: No journal available (2011), pp. No pages available. doi: No DOI available.

[Jalanka-Tuovinen11] Jonna Jalanka-Tuovinen, Anne Salonen, Janne Nikkilä, Outi Immonen, Riina Kekkonen, Leo Lahti, Airi Palva, Willem Vos. "Intestinal microbiota in healthy adults: Temporal analysis reveals individual and common core and relation to intestinal symptoms". In: PLoS One (2011), pp. e23035. doi: No DOI available.

[Lahti11intcomp] Leo Lahti, Martin Schäfer, Hans-Ulrich Klein, Silvio Bicciato, Martin Dugas. "intcomp: a benchmarking pipeline for integrative cancer gene detection algorithms". In: No journal available (2011), pp. No pages available. doi: No DOI available.

[Lahti11ismb] Leo Lahti, Samuel Kaski. "Probabilistic dependency models for data integration in functional genomics". In: No journal available (2011), pp. No pages available. doi: No DOI available.

[Lahti11rpa] Leo Lahti, Laura Elo, Tero Aittokallio, Samuel Kaski. "Probabilistic Analysis of Probe Reliability in Differential Gene Expression Studies with Short Oligonucleotide Arrays". In: IEEE/ACM Transactions on Computational Biology and Bioinformatics (2011), pp. 217--225. doi: 10.1109/TCBB.2009.38.

[Niini11mfh] Tarja Niini, Leo Lahti, Francesca Michelacci, Shinsuke Ninomiya, Claudia Hattinger, Mohamed Guled, Tom Böhling, Piero Picci, Massimo Serra, Sakari Knuutila. "Array Comparative Genomic Hybridization Reveals Frequent Alterations of G1/S Checkpoint Genes in Undifferentiated Pleomorphic Sarcoma of Bone". In: Genes, Chromosomes and Cancer (2011), pp. 291--306. doi: 10.1002/gcc.20851.

[Nymark11] Penny Nymark, Mohamed Guled, Ioana Borze, Ali Faisal, Leo Lahti, Kaisa Salmenkivi, Eeva Kettunen, Sisko Anttila, Sakari Knuutila. "Integrative Analysis of microRNA, mRNA and aCGH Data Reveals Asbestos- and Histology-Related Changes in Lung Cancer". In: Genes, Chromosomes and Cancer (2011), pp. 585--597. doi: 10.1002/gcc.20880.

[Lahti10bioinf] Leo Lahti, Juha Knuutila, Samuel Kaski. "Global modeling of transcriptional responses in interaction networks". In: Bioinformatics (2010), pp. 2713--2720. doi: 10.1093/bioinformatics/btq500.

[Lahti10dmt] Leo Lahti, Abhishek Tripathi, Olli-Pekka Huovilainen. "Dependency modeling toolkit". In: No journal available (2010), pp. No pages available. doi: No DOI available.

[Lahti10netresponse] Leo Lahti, Antonio Gusmao, Olli-Pekka Huovilainen. "NetResponse (functional network analysis)". In: No journal available (2010), pp. No pages available. doi: 10.18129/B9.BIOC.NETRESPONSE.

[Lahti10pint] Olli-Pekka Huovilainen, Leo Lahti. "Pairwise integration of functional genomics data". In: No journal available (2010), pp. No pages available. doi: No DOI available.

[Lahti10thesis] Leo Lahti. "Probabilistic analysis of the human transcriptome with side information". In: No journal available (2010), pp. No pages available. doi: No DOI available.

[Mosakhani10] Neda Mosakhani, Mohamed Guled, Leo Lahti, Ioana Borze, Minna Forsman, Jorma Ryhänen, Sakari Knuutila. "Unique microRNA profile in Dupuytren's contracture supports deregulation of beta-catenin pathway". In: *Modern Pathology* (2010), pp. 1544--1522. doi: 10.1038/modpathol.2010.146.

[Guled09] Mohamed Guled, Leo Lahti, Pamela Lindholm, Kaisa Salmenkivi, Izhar Bagwan, Andrew Nicholson, Sakari Knuutila. "CDKN2A, NF2 and JUN Are Dysregulated Among Other Genes by miRNAs in Malignant Mesothelioma - a miRNA Microarray Analysis". In: *Genes, Chromosomes and Cancer* (2009), pp. 615--623. doi: 10.1002/gcc.20669.

[Lahti09bsc] Leo Lahti. "Concerning Blackburn's quasi-realism in securing moral discussion". In: No journal available (2009), pp. No pages available. doi: No DOI available.

[Lahti09mlsp] Leo Lahti, Samuel Myllykangas, Sakari Knuutila, Samuel Kaski. "Dependency detection with similarity constraints". In: No journal available (2009), pp. 198--203. doi: No DOI available.

[Lahti09rpa] Leo Lahti. "RPA: probe reliability and differential gene expression analysis". In: No journal available (2009), pp. No pages available. doi: 10.18129/B9.BIOC.RPA.

[Lahti2006biopax] Leo Lahti. "A brief overview on the BioPAX and SBML standards". In: No journal available (2007), pp. No pages available. doi: No DOI available.

[Nymark07] Penny Nymark, Pamela Lindholm, Mikko Korpela, Leo Lahti, Salla Ruosaari, Samuel Kaski, Jaakko Hollmen, Sisko Anttila, Vuokko Kinnula, Sakari Knuutila. "Gene Expression Profiles in Asbestos-exposed Epithelial and Mesothelial Lung Cell Lines". In: *BMC Genomics* (2007), pp. No pages available. doi: 10.1186/1471-2164-8-62.

[Elo05] Laura Elo, Leo Lahti, Heli Skottman, Minna Kylanen, Riitta Lahesmaa, Tero Aittokallio. "Integrating probe-level expression changes across generations of Affymetrix arrays". In: *Nucleic Acids Research* (2005), pp. e193. doi: 10.1093/nar/gni193.

[Kaski05] Samuel Kaski, Janne Nikkilä, Janne Sinkkonen, Leo Lahti, Juha Knuutila, Christophe Roos. "Associative clustering for exploring dependencies between functional genomics data sets". In: *IEEE/ACM Transactions on Computational Biology and Bioinformatics* (2005), pp. 203--216. doi: 10.1109/TCBB.2005.32.

[Sinkkonen05tr] Janne Sinkkonen, Samuel Kaski, Janne Nikkilä, Leo Lahti. "Associative Clustering (AC): Technical Details". In: No journal available (2005), pp. No pages available. doi: No DOI available.

[Sinkkonen04ecml] Janne Sinkkonen, Janne Nikkilä, Leo Lahti, Samuel Kaski. "Associative Clustering". In: No journal available (2004), pp. 396--406. doi: No DOI available.

[Lahti03] Leo Lahti. "Comparative functional genome analysis using associative clustering". In: No journal available (2003), pp. No pages available. doi: No DOI available.

[Sinkkonen03tr] Janne Sinkkonen, Janne Nikkilä, Leo Lahti, Samuel Kaski. "Associative Clustering by Maximizing a {B}ayes Factor". In: No journal available (2003), pp. No pages available. doi: No DOI available.

[Lahti2002] Leo Lahti. "Itsesimilaaristen joukkojen Hausdorffin dimension määrittäminen". In: No journal available (2002), pp. No pages available. doi: No DOI available.

[Lahti2001] Leo Lahti. "Julian joukko iteraatioiden valuma-altaan reunana". In: No journal available (2001), pp. No pages available. doi: No DOI available.

[Lahti10blog] Leo Lahti. "opencomp blog". In: No journal available (No year available), pp. No pages available. doi: No DOI available.

[Lahti11-louhos] Leo Lahti, Joona Lehtomäki, Juuso Parkkinen, others. "Louhos blog". In: No journal available (No year available), pp. No pages available. doi: No DOI available.

[Lahti13-ropengov] Leo Lahti, Joona Lehtomäki, Markus Kainu, Juuso Parkkinen, others. "rOpenGov blog". In: No journal available (No year available), pp. No pages available. doi: No DOI available.