

Laura L Elo

List of Publications by Year in descending order

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Version: 2024-02-01

122
papers

5,998
citations

136950

32
h-index

88630

70
g-index

136
all docs

136
docs citations

136
times ranked

11621
citing authors

#	ARTICLE	IF	CITATIONS
1	A survey of best practices for RNA-seq data analysis. <i>Genome Biology</i> , 2016, 17, 13.	8.8	1,898
2	Comparison of software packages for detecting differential expression in RNA-seq studies. <i>Briefings in Bioinformatics</i> , 2015, 16, 59-70.	6.5	361
3	A systematic evaluation of normalization methods in quantitative label-free proteomics. <i>Briefings in Bioinformatics</i> , 2018, 19, bbw095.	6.5	192
4	Innate Immune Activity Is Detected Prior to Seroconversion in Children With HLA-Conferred Type 1 Diabetes Susceptibility. <i>Diabetes</i> , 2014, 63, 2402-2414.	0.6	158
5	Six-Week Endurance Exercise Alters Gut Metagenome That Is not Reflected in Systemic Metabolism in Over-weight Women. <i>Frontiers in Microbiology</i> , 2018, 9, 2323.	3.5	145
6	Genome-wide Profiling of Interleukin-4 and STAT6 Transcription Factor Regulation of Human Th2 Cell Programming. <i>Immunity</i> , 2010, 32, 852-862.	14.3	139
7	Prediction of overall survival for patients with metastatic castration-resistant prostate cancer: development of a prognostic model through a crowdsourced challenge with open clinical trial data. <i>Lancet Oncology</i> , The, 2017, 18, 132-142.	10.7	124
8	Systematic evaluation of differential splicing tools for RNA-seq studies. <i>Briefings in Bioinformatics</i> , 2020, 21, 2052-2065.	6.5	124
9	ROTS: An R package for reproducibility-optimized statistical testing. <i>PLoS Computational Biology</i> , 2017, 13, e1005562.	3.2	108
10	A practical comparison of methods for detecting transcription factor binding sites in ChIP-seq experiments. <i>BMC Genomics</i> , 2009, 10, 618.	2.8	105
11	Normal stroma suppresses cancer cell proliferation via mechanosensitive regulation of JMJD1a-mediated transcription. <i>Nature Communications</i> , 2016, 7, 12237.	12.8	105
12	Improving missing value estimation in microarray data with gene ontology. <i>Bioinformatics</i> , 2006, 22, 566-572.	4.1	101
13	Systematic construction of gene coexpression networks with applications to human T helper cell differentiation process. <i>Bioinformatics</i> , 2007, 23, 2096-2103.	4.1	94
14	Gut microbiota composition is associated with temperament traits in infants. <i>Brain, Behavior, and Immunity</i> , 2019, 80, 849-858.	4.1	91
15	A comprehensive evaluation of popular proteomics software workflows for label-free proteome quantification and imputation. <i>Briefings in Bioinformatics</i> , 2018, 19, 1344-1355.	6.5	88
16	Comparison of methods to detect differentially expressed genes between single-cell populations. <i>Briefings in Bioinformatics</i> , 2017, 18, bbw057.	6.5	83
17	Th1 Response and Cytotoxicity Genes Are Down-Regulated in Cutaneous T-Cell Lymphoma. <i>Clinical Cancer Research</i> , 2006, 12, 4812-4821.	7.0	74
18	Reproducibility-Optimized Test Statistic for Ranking Genes in Microarray Studies. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2008, 5, 423-431.	3.0	66

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19	SATB1 dictates expression of multiple genes including IL-5 involved in human T helper cell differentiation. <i>Blood</i> , 2010, 116, 1443-1453.	1.4	62
20	Transcriptional Repressor HIC1 Contributes to Suppressive Function of Human Induced Regulatory T Cells. <i>Cell Reports</i> , 2018, 22, 2094-2106.	6.4	60
21	Quantitative Proteomics Analysis of the Nuclear Fraction of Human CD4+ Cells in the Early Phases of IL-4-induced Th2 Differentiation. <i>Molecular and Cellular Proteomics</i> , 2010, 9, 1937-1953.	3.8	55
22	Optimization of Statistical Methods Impact on Quantitative Proteomics Data. <i>Journal of Proteome Research</i> , 2015, 14, 4118-4126.	3.7	54
23	Missing value imputation improves clustering and interpretation of gene expression microarray data. <i>BMC Bioinformatics</i> , 2008, 9, 202.	2.6	52
24	Integrating probe-level expression changes across generations of Affymetrix arrays. <i>Nucleic Acids Research</i> , 2005, 33, e193-e193.	14.5	51
25	Early fecal microbiota composition in children who later develop celiac disease and associated autoimmunity. <i>Scandinavian Journal of Gastroenterology</i> , 2018, 53, 403-409.	1.5	49
26	Hydroxysteroid (17 β) dehydrogenase 13 deficiency triggers hepatic steatosis and inflammation in mice. <i>FASEB Journal</i> , 2018, 32, 3434-3447.	0.5	49
27	Computational strategies for single-cell multi-omics integration. <i>Computational and Structural Biotechnology Journal</i> , 2021, 19, 2588-2596.	4.1	46
28	Decidualization of Human Endometrial Stromal Fibroblasts is a Multiphasic Process Involving Distinct Transcriptional Programs. <i>Reproductive Sciences</i> , 2019, 26, 323-336.	2.5	45
29	ROTS: reproducible RNA-seq biomarker detector—prognostic markers for clear cell renal cell cancer. <i>Nucleic Acids Research</i> , 2016, 44, e1-e1.	14.5	43
30	Using Peptide-Level Proteomics Data for Detecting Differentially Expressed Proteins. <i>Journal of Proteome Research</i> , 2015, 14, 4564-4570.	3.7	40
31	Brief Isoflurane Anesthesia Produces Prominent Phosphoproteomic Changes in the Adult Mouse Hippocampus. <i>ACS Chemical Neuroscience</i> , 2016, 7, 749-756.	3.5	39
32	Integrative omics approaches provide biological and clinical insights: examples from mitochondrial diseases. <i>Journal of Clinical Investigation</i> , 2020, 130, 20-28.	8.2	39
33	Genetic Variants and Their Interactions in the Prediction of Increased Pre-Clinical Carotid Atherosclerosis: The Cardiovascular Risk in Young Finns Study. <i>PLoS Genetics</i> , 2010, 6, e1001146.	3.5	38
34	Metagenomics analysis of gut microbiota in response to diet intervention and gestational diabetes in overweight and obese women: a randomised, double-blind, placebo-controlled clinical trial. <i>Gut</i> , 2021, 70, gutjnl-2020-321643.	12.1	37
35	Prediction of Adulthood Obesity Using Genetic and Childhood Clinical Risk Factors in the Cardiovascular Risk in Young Finns Study. <i>Circulation: Cardiovascular Genetics</i> , 2017, 10, .	5.1	35
36	Enhanced differential expression statistics for data-independent acquisition proteomics. <i>Scientific Reports</i> , 2017, 7, 5869.	3.3	32

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37	Data-Independent Acquisition Mass Spectrometry in Metaproteomics of Gut Microbiota Implementation and Computational Analysis. <i>Journal of Proteome Research</i> , 2020, 19, 432-436.	3.7	31
38	Optimized detection of differential expression in global profiling experiments: case studies in clinical transcriptomic and quantitative proteomic datasets. <i>Briefings in Bioinformatics</i> , 2009, 10, 547-555.	6.5	29
39	Early suppression of immune response pathways characterizes children with prediabetes in genome-wide gene expression profiling. <i>Journal of Autoimmunity</i> , 2010, 35, 70-76.	6.5	29
40	Probabilistic Analysis of Probe Reliability in Differential Gene Expression Studies with Short Oligonucleotide Arrays. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2011, 8, 217-225.	3.0	29
41	Chronic nonbacterial prostate inflammation in a rat model is associated with changes of gut microbiota that can be modified with a galactoglucomannan-rich hemicellulose extract in the diet. <i>BJU International</i> , 2019, 123, 899-908.	2.5	29
42	Empirical comparison of structure-based pathway methods. <i>Briefings in Bioinformatics</i> , 2016, 17, 336-345.	6.5	27
43	A fully scalable online pre-processing algorithm for short oligonucleotide microarray atlases. <i>Nucleic Acids Research</i> , 2013, 41, e110-e110.	14.5	26
44	Hypoxia-inducible factor (HIF)-prolyl hydroxylase 3 (PHD3) maintains high HIF2A mRNA levels in clear cell renal cell carcinoma. <i>Journal of Biological Chemistry</i> , 2019, 294, 3760-3771.	3.4	26
45	CIP2A Interacts with TopBP1 and Drives Basal-Like Breast Cancer Tumorigenesis. <i>Cancer Research</i> , 2021, 81, 4319-4331.	0.9	26
46	The L1TD1 Protein Interactome Reveals the Importance of Post-transcriptional Regulation in Human Pluripotency. <i>Stem Cell Reports</i> , 2015, 4, 519-528.	4.8	25
47	Quantitative Proteomics Reveals the Dynamic Protein Landscape during Initiation of Human Th17 Cell Polarization. <i>iScience</i> , 2019, 11, 334-355.	4.1	25
48	HIF prolyl hydroxylase PHD3 regulates translational machinery and glucose metabolism in clear cell renal cell carcinoma. <i>Cancer & Metabolism</i> , 2017, 5, 5.	5.0	24
49	Crowdsourcing digital health measures to predict Parkinson's disease severity: the Parkinson's Disease Digital Biomarker DREAM Challenge. <i>Npj Digital Medicine</i> , 2021, 4, 53.	10.9	24
50	Probe-level estimation improves the detection of differential splicing in Affymetrix exon array studies. <i>Genome Biology</i> , 2009, 10, R77.	9.6	23
51	Histone deacetylases 1 and 2 restrain CD4+ cytotoxic T lymphocyte differentiation. <i>JCI Insight</i> , 2020, 5, .	5.0	23
52	A carbohydrate-active enzyme (CAZy) profile links successful metabolic specialization of <i>Prevotella</i> to its abundance in gut microbiota. <i>Scientific Reports</i> , 2020, 10, 12411.	3.3	22
53	Compressive stress-mediated p38 activation required for ER stress phenotype in breast cancer. <i>Nature Communications</i> , 2021, 12, 6967.	12.8	22
54	Serum Proteomic Profiling to Identify Biomarkers of Premature Carotid Atherosclerosis. <i>Scientific Reports</i> , 2018, 8, 9209.	3.3	20

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55	Community Assessment of the Predictability of Cancer Protein and Phosphoprotein Levels from Genomics and Transcriptomics. <i>Cell Systems</i> , 2020, 11, 186-195.e9.	6.2	19
56	Melanoma-Associated Cancer-Testis Antigen 16 (CT16) Regulates the Expression of Apoptotic and Antiapoptotic Genes and Promotes Cell Survival. <i>PLoS ONE</i> , 2012, 7, e45382.	2.5	18
57	Adrenals Contribute to Growth of Castration-Resistant VCaP Prostate Cancer Xenografts. <i>American Journal of Pathology</i> , 2018, 188, 2890-2901.	3.8	17
58	An unbiased in vitro screen for activating epidermal growth factor receptor mutations. <i>Journal of Biological Chemistry</i> , 2019, 294, 9377-9389.	3.4	17
59	Stable Iterative Variable Selection. <i>Bioinformatics</i> , 2021, 37, 4810-4817.	4.1	17
60	Prediction of complication related death after radical cystectomy for bladder cancer with machine learning methodology. <i>Scandinavian Journal of Urology</i> , 2019, 53, 325-331.	1.0	16
61	Lack of androgen receptor SUMOylation results in male infertility due to epididymal dysfunction. <i>Nature Communications</i> , 2019, 10, 777.	12.8	15
62	Prediction of Adult Dyslipidemia Using Genetic and Childhood Clinical Risk Factors. <i>Circulation: Cardiovascular Genetics</i> , 2017, 10, .	5.1	14
63	A crowdsourced analysis to identify ab initio molecular signatures predictive of susceptibility to viral infection. <i>Nature Communications</i> , 2018, 9, 4418.	12.8	14
64	MASTL promotes cell contractility and motility through kinase-independent signaling. <i>Journal of Cell Biology</i> , 2020, 219, .	5.2	14
65	The Transcription Factor MAZR/PATZ1 Regulates the Development of FOXP3+ Regulatory T Cells. <i>Cell Reports</i> , 2019, 29, 4447-4459.e6.	6.4	13
66	Transcriptomic responses to hypoxia in endometrial and decidual stromal cells. <i>Reproduction</i> , 2020, 160, 39-51.	2.6	13
67	Tool evaluation for the detection of variably sized indels from next generation whole genome and targeted sequencing data. <i>PLoS Computational Biology</i> , 2022, 18, e1009269.	3.2	13
68	A DREAM Challenge to Build Prediction Models for Short-Term Discontinuation of Docetaxel in Metastatic Castration-Resistant Prostate Cancer. <i>JCO Clinical Cancer Informatics</i> , 2017, 1, 1-15.	2.1	12
69	Enterovirus-associated changes in blood transcriptomic profiles of children with genetic susceptibility to type 1 diabetes. <i>Diabetologia</i> , 2018, 61, 381-388.	6.3	12
70	CIP2A Constrains Th17 Differentiation by Modulating STAT3 Signaling. <i>IScience</i> , 2020, 23, 100947.	4.1	12
71	A Note on an Exon-Based Strategy to Identify Differentially Expressed Genes in RNA-Seq Experiments. <i>PLoS ONE</i> , 2014, 9, e115964.	2.5	12
72	Mining proteomic data for biomedical research. <i>Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery</i> , 2012, 2, 1-13.	6.8	11

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73	L1TD1 - a prognostic marker for colon cancer. <i>BMC Cancer</i> , 2019, 19, 727.	2.6	11
74	Predicting Quantitative Genetic Interactions by Means of Sequential Matrix Approximation. <i>PLoS ONE</i> , 2008, 3, e3284.	2.5	10
75	Resampling Reveals Sample-Level Differential Expression in Clinical Genome-Wide Studies. <i>OMICS A Journal of Integrative Biology</i> , 2009, 13, 381-396.	2.0	10
76	Statistical detection of quantitative protein biomarkers provides insights into signaling networks deregulated in acute myeloid leukemia. <i>Proteomics</i> , 2014, 14, 2443-2453.	2.2	10
77	End-of-life chemotherapy use at a Finnish university hospital: a retrospective cohort study. <i>Acta Oncologica</i> , 2017, 56, 1272-1276.	1.8	10
78	A systematic comparison of FOSL1, FOSL2 and BATF-mediated transcriptional regulation during early human Th17 differentiation. <i>Nucleic Acids Research</i> , 2022, 50, 4938-4958.	14.5	10
79	Introducing untargeted data-independent acquisition for metaproteomics of complex microbial samples. <i>ISME Communications</i> , 2022, 2, .	4.2	10
80	Antiandrogens Reduce Intratumoral Androgen Concentrations and Induce Androgen Receptor Expression in Castration-Resistant Prostate Cancer Xenografts. <i>American Journal of Pathology</i> , 2018, 188, 216-228.	3.8	9
81	Easy-to-use tool for evaluating the elevated acute kidney injury risk against reduced cardiovascular disease risk during intensive blood pressure control. <i>Journal of Hypertension</i> , 2020, 38, 511-518.	0.5	9
82	Evaluation of tools for identifying large copy number variations from ultra-low-coverage whole-genome sequencing data. <i>BMC Genomics</i> , 2021, 22, 357.	2.8	9
83	Early DNA methylation changes in children developing beta cell autoimmunity at a young age. <i>Diabetologia</i> , 2022, 65, 844-860.	6.3	9
84	Assessing the utilization of radiotherapy near end of life at a Finnish University Hospital: a retrospective cohort study. <i>Acta Oncologica</i> , 2017, 56, 1265-1271.	1.8	8
85	SimPhospho: a software tool enabling confident phosphosite assignment. <i>Bioinformatics</i> , 2018, 34, 2690-2692.	4.1	8
86	Preoperative Risk Prediction Models for Short-Term Revision and Death After Total Hip Arthroplasty. <i>JBJS Open Access</i> , 2021, 6, e20.00091.	1.5	8
87	Improving Identification of Differentially Expressed Genes by Integrative Analysis of Affymetrix and Illumina Arrays. <i>OMICS A Journal of Integrative Biology</i> , 2006, 10, 369-380.	2.0	7
88	Liver lipid metabolism is altered by increased circulating estrogen to androgen ratio in male mouse. <i>Journal of Proteomics</i> , 2016, 133, 66-75.	2.4	7
89	Analysis of Time-Resolved Gene Expression Measurements across Individuals. <i>PLoS ONE</i> , 2013, 8, e82340.	2.5	7
90	PhosPiR: an automated phosphoproteomic pipeline in R. <i>Briefings in Bioinformatics</i> , 2022, 23, .	6.5	7

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91	Optimized detection of transcription factor-binding sites in ChIP-seq experiments. <i>Nucleic Acids Research</i> , 2012, 40, e1-e1.	14.5	6
92	Protein interactome of the Cancerous Inhibitor of protein phosphatase 2A (CIP2A) in Th17 cells. <i>Current Research in Immunology</i> , 2020, 1, 10-22.	2.8	6
93	Likelihood contrasts: a machine learning algorithm for binary classification of longitudinal data. <i>Scientific Reports</i> , 2020, 10, 1016.	3.3	6
94	Phosphonormalizer: an R package for normalization of MS-based label-free phosphoproteomics. <i>Bioinformatics</i> , 2018, 34, 693-694.	4.1	5
95	How Reliable are Trial-based Prognostic Models in Real-world Patients with Metastatic Castration-resistant Prostate Cancer?. <i>European Urology</i> , 2017, 71, 838-840.	1.9	4
96	PASI: A novel pathway method to identify delicate group effects. <i>PLoS ONE</i> , 2018, 13, e0199991.	2.5	4
97	A Data Analysis Protocol for Quantitative Data-Independent Acquisition Proteomics. <i>Methods in Molecular Biology</i> , 2019, 1871, 455-465.	0.9	4
98	Posterior approach, fracture diagnosis, and American Society of Anesthesiology class III&IV are associated with increased risk of revision for dislocation after total hip arthroplasty: An analysis of 33,337 operations from the Finnish Arthroplasty Register. <i>Scandinavian Journal of Surgery</i> , 2020, 110, 145749692093061.	2.6	4
99	Improved risk prediction of chemotherapy&induced neutropenia" model development and validation with real&world data. <i>Cancer Medicine</i> , 2021, , .	2.8	4
100	Weight Loss Trajectories in Healthy Weight Coaching: Cohort Study. <i>JMIR Formative Research</i> , 2022, 6, e26374.	1.4	4
101	Histone H3K4me3 breadth in hypoxia reveals endometrial core functions and stress adaptation linked to endometriosis. <i>IScience</i> , 2022, 25, 104235.	4.1	4
102	High intratumoral dihydrotestosterone is associated with antiandrogen resistance in VCaP prostate cancer xenografts in castrated mice. <i>IScience</i> , 2022, 25, 104287.	4.1	4
103	Umbilical cord blood DNA methylation in children who later develop type 1 diabetes. <i>Diabetologia</i> , 2022, 65, 1534-1540.	6.3	4
104	Statistical Analysis of Protein Microarray Data: A Case Study in Type 1 Diabetes Research. <i>Journal of Proteomics and Bioinformatics</i> , 2015, 08, .	0.4	3
105	Longitudinal modeling of ultrasensitive and traditional prostate-specific antigen and prediction of biochemical recurrence after radical prostatectomy. <i>Scientific Reports</i> , 2016, 6, 36161.	3.3	3
106	Predicting Skeletal Muscle and Whole-Body Insulin Sensitivity Using NMR-Metabolomic Profiling. <i>Journal of the Endocrine Society</i> , 2020, 4, bvaa026.	0.2	3
107	OUP accepted manuscript. <i>Briefings in Bioinformatics</i> , 2021, , .	6.5	3
108	Computational deconvolution to estimate cell type-specific gene expression from bulk data. <i>NAR Genomics and Bioinformatics</i> , 2021, 3, lqaa110.	3.2	3

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109	Persistent coxsackievirus B1 infection triggers extensive changes in the transcriptome of human pancreatic ductal cells. <i>IScience</i> , 2022, 25, 103653.	4.1	3
110	Statistical and machine learning methods to study human CD4+ T cell proteome profiles. <i>Immunology Letters</i> , 2022, 245, 8-17.	2.5	3
111	Optimizing Detection of Transcription Factor-Binding Sites in ChIP-seq Experiments. <i>Methods in Molecular Biology</i> , 2013, 1038, 181-191.	0.9	2
112	Accurate Detection of Differential Expression and Splicing Using Low-Level Features. <i>Methods in Molecular Biology</i> , 2017, 1507, 141-151.	0.9	2
113	Exon-level estimates improve the detection of differentially expressed genes in RNA-seq studies. <i>RNA Biology</i> , 2021, 18, 1739-1746.	3.1	2
114	Differential ATAC-seq and ChIP-seq peak detection using ROTS. <i>NAR Genomics and Bioinformatics</i> , 2021, 3, lqab059.	3.2	2
115	An Unbiased Functional Genetics Screen Identifies Rare Activating ERBB4 Mutations. <i>Cancer Research Communications</i> , 2022, 2, 10-27.	1.7	2
116	An Infancy-Onset 20-Year Dietary Counselling Intervention and Gut Microbiota Composition in Adulthood. <i>Nutrients</i> , 2022, 14, 2667.	4.1	2
117	Predicting Gene Expression from Combined Expression and Promoter Profile Similarity with Application to Missing Value Imputation. , 2007, , 97-104.		1
118	Reproducibility-optimized detection of differential DNA methylation. <i>Epigenomics</i> , 2020, 12, 747-755.	2.1	1
119	Type 1 Diabetes in Children With Genetic Risk May Be Predicted Very Early With a Blood miRNA. <i>Diabetes Care</i> , 2022, , .	8.6	1
120	Reply to Tuomas Mirtti and Tero Aittokallio's Letter to the Editor re: Fatemeh Seyednasrollah, Mehrad Mahmoudian, Liisa Rautakorpi, et al. How Reliable are Trial-based Prognostic Models in Real-world Patients with Metastatic Castration-resistant Prostate Cancer? <i>Eur Urol.</i> 2017;71:838-40. Clinical Utility of Trial-estimated Prognostic Models. <i>European Urology</i> , 2017, 72, e70-e71.	1.9	0
121	Inference of Gene Coexpression Networks by Integrative Analysis across Microarray Experiments. <i>Journal of Integrative Bioinformatics</i> , 2006, 3, 137-147.	1.5	0
122	Pancreas Whole Tissue Transcriptomics Highlights the Role of the Exocrine Pancreas in Patients With Recently Diagnosed Type 1 Diabetes. <i>Frontiers in Endocrinology</i> , 2022, 13, 861985.	3.5	0