Fredrik Ponten

List of Publications by Year
in descending order

116 papers	30,216 citations	57631 44 h-index	22764 112 g-index
120 all docs	120 docs citations	120 times ranked	54300 citing authors

#	ARTICLE	IF	CITATIONS
1	Tissue-based map of the human proteome. Science, 2015, 347, 1260419.	6.0	10,802
2	Analysis of the Human Tissue-specific Expression by Genome-wide Integration of Transcriptomics and Antibody-based Proteomics. Molecular and Cellular Proteomics, 2014, 13, 397-406.	2.5	2,819
3	A pathology atlas of the human cancer transcriptome. Science, 2017, 357, .	6.0	2,570
4	A subcellular map of the human proteome. Science, 2017, 356, .	6.0	2,079
5	Towards a knowledge-based Human Protein Atlas. Nature Biotechnology, 2010, 28, 1248-1250.	9.4	2,076
6	Visualization and analysis of gene expression in tissue sections by spatial transcriptomics. Science, 2016, 353, 78-82.	6.0	1,983
7	A single–cell type transcriptomics map of human tissues. Science Advances, 2021, 7, .	4.7	632
8	A deep proteome and transcriptome abundance atlas of 29 healthy human tissues. Molecular Systems Biology, 2019, 15, e8503.	3.2	576
9	An atlas of the protein-coding genes in the human, pig, and mouse brain. Science, 2020, 367, .	6.0	517
10	Correlations between RNA and protein expression profiles in 23 human cell lines. BMC Genomics, 2009, 10, 365.	1.2	422
11	Gene–specific correlation of <scp>RNA</scp> and protein levels in human cells and tissues. Molecular Systems Biology, 2016, 12, 883.	3.2	347
12	A genome-wide transcriptomic analysis of protein-coding genes in human blood cells. Science, 2019, 366, .	6.0	329
13	The human secretome. Science Signaling, 2019, 12, .	1.6	259
14	Towards a human proteome atlas: High-throughput generation of mono-specific antibodies for tissue profiling. Proteomics, 2005, 5, 4327-4337.	1.3	221
15	Antibody-based proteomics: fast-tracking molecular diagnostics in oncology. Nature Reviews Cancer, 2010, 10, 605-617.	12.8	181
16	A global view of protein expression in human cells, tissues, and organs. Molecular Systems Biology, 2009, 5, 337.	3.2	175
17	Production of Tissue Microarrays, Immunohistochemistry Staining and Digitalization Within the Human Protein Atlas. Journal of Visualized Experiments, 2012, , .	0.2	143
18	Transcriptomics resources of human tissues and organs. Molecular Systems Biology, 2016, 12, 862.	3.2	130

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19	PATCHED and p53 gene alterations in sporadic and hereditary basal cell cancer. Oncogene, 2001, 20, 7770-7778.	2.6	125
20	Toward a Confocal Subcellular Atlas of the Human Proteome. Molecular and Cellular Proteomics, 2008, 7, 499-508.	2.5	122
21	Garbage in, garbage out: A critical evaluation of strategies used for validation of immunohistochemical biomarkers. Molecular Oncology, 2014, 8, 783-798.	2.1	122
22	Foxf2 Is Required for Brain Pericyte Differentiation and Development and Maintenance of the Blood-Brain Barrier. Developmental Cell, 2015, 34, 19-32.	3.1	107
23	Affinity proteomics within rare diseases: a <scp>BIO</scp>â€<scp>NMD</scp> study for blood biomarkers of muscular dystrophies. EMBO Molecular Medicine, 2014, 6, 918-936.	3.3	105
24	Spatiotemporal dissection of the cell cycle with single-cell proteogenomics. Nature, 2021, 590, 649-654.	13.7	104
25	Complementing tissue characterization by integrating transcriptome profiling from the Human Protein Atlas and from the FANTOM5 consortium. Nucleic Acids Research, 2015, 43, 6787-6798.	6.5	94
26	Mining the Human Tissue Proteome for Protein Citrullination. Molecular and Cellular Proteomics, 2018, 17, 1378-1391.	2.5	93
27	High BRAF Mutation Frequency and Marked Survival Differences in Subgroups According to KRAS/BRAF Mutation Status and Tumor Tissue Availability in a Prospective Population-Based Metastatic Colorectal Cancer Cohort. PLoS ONE, 2015, 10, e0131046.	1.1	91
28	ANLN is a prognostic biomarker independent of Ki-67 and essential for cell cycle progression in primary breast cancer. BMC Cancer, 2016, 16, 904.	1.1	82
29	Long-term outcome in young women with breast cancer: a population-based study. Breast Cancer Research and Treatment, 2016, 160, 131-143.	1.1	82
30	Profiling cancer testis antigens in nonâ€"small-cell lung cancer. JCI Insight, 2016, 1, e86837.	2.3	82
31	Colorectal cancer candidate biomarkers identified by tissue secretome proteome profiling. Journal of Proteomics, 2014, 99, 26-39.	1.2	81
32	System-wide Clinical Proteomics of Breast Cancer Reveals Global Remodeling of Tissue Homeostasis. Cell Systems, 2016, 2, 172-184.	2.9	81
33	Two distinct p53 immunohistochemical patterns in human squamous-cell skin cancer, precursors and normal epidermis. , 1996, 69, 174-179.		80
34	Antibody validation of immunohistochemistry for biomarker discovery: Recommendations of a consortium of academic and pharmaceutical based histopathology researchers. Methods, 2014, 70, 34-38.	1.9	80
35	The human liverâ€specific proteome defined by transcriptomics and antibodyâ€based profiling. FASEB Journal, 2014, 28, 2901-2914.	0.2	73
36	Analysis of Protein Expression in Cell Microarrays: A Tool for Antibody-based Proteomics. Journal of Histochemistry and Cytochemistry, 2006, 54, 1413-1423.	1.3	72

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37	Expression of Human Skin-Specific Genes Defined by Transcriptomics and Antibody-Based Profiling. Journal of Histochemistry and Cytochemistry, 2015, 63, 129-141.	1.3	63
38	Quantification and discovery of sequence determinants of protein‑per‑mRNA amount in 29 human tissues. Molecular Systems Biology, 2019, 15, e8513.	3.2	63
39	A high-throughput strategy for protein profiling in cell microarrays using automated image analysis. Proteomics, 2007, 7, 2142-2150.	1.3	59
40	Elevated Expression of the C-Type Lectin CD93 in the Glioblastoma Vasculature Regulates Cytoskeletal Rearrangements That Enhance Vessel Function and Reduce Host Survival. Cancer Research, 2015, 75, 4504-4516.	0.4	59
41	The human cardiac and skeletal muscle proteomes defined by transcriptomics and antibody-based profiling. BMC Genomics, 2015, 16, 475.	1.2	58
42	Extension of diffuse low-grade gliomas beyond radiological borders as shown by the coregistration of histopathological and magnetic resonance imaging data. Journal of Neurosurgery, 2016, 125, 1155-1166.	0.9	58
43	Defining the Human Adipose Tissue Proteome To Reveal Metabolic Alterations in Obesity. Journal of Proteome Research, 2014, 13, 5106-5119.	1.8	55
44	Prognostic Impact of Tumor Cell Programmed Death Ligand 1 Expression and Immune Cell Infiltration in NSCLC. Journal of Thoracic Oncology, 2019, 14, 628-640.	0.5	54
45	Pleiotrophin promotes vascular abnormalization in gliomas and correlates with poor survival in patients with astrocytomas. Science Signaling, 2015, 8, ra125.	1.6	52
46	U-CAN: a prospective longitudinal collection of biomaterials and clinical information from adult cancer patients in Sweden. Acta Oncológica, 2018, 57, 187-194.	0.8	52
47	The Kidney Transcriptome and Proteome Defined by Transcriptomics and Antibody-Based Profiling. PLoS ONE, 2014, 9, e116125.	1.1	49
48	Contribution of Antibody-based Protein Profiling to the Human Chromosome-centric Proteome Project (C-HPP). Journal of Proteome Research, 2013, 12, 2439-2448.	1.8	48
49	Guidance Molecule SEMA3A Restricts Tumor Growth by Differentially Regulating the Proliferation of Tumor-Associated Macrophages. Cancer Research, 2016, 76, 3166-3178.	0.4	48
50	Genetic instability in the 9q22.3 region is a late event in the development of squamous cell carcinoma. Oncogene, 1998, 17, 1837-1843.	2.6	45
51	High nuclear RBM3 expression is associated with an improved prognosis in colorectal cancer. Proteomics - Clinical Applications, 2011, 5, 624-635.	0.8	44
52	Evidence for a morphologically distinct and functionally robust cell type in the proximal tubules of human kidney. Human Pathology, 2014, 45, 382-393.	1.1	44
53	Analysis of Body-wide Unfractionated Tissue Data to Identify a Core Human Endothelial Transcriptome. Cell Systems, 2016, 3, 287-301.e3.	2.9	44
54	Defining the Human Brain Proteome Using Transcriptomics and Antibody-Based Profiling with a Focus on the Cerebral Cortex. PLoS ONE, 2015, 10, e0130028.	1.1	44

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55	Serglycin as a potential biomarker for glioma: association of serglycin expression, extent of mast cell recruitment and glioblastoma progression. Oncotarget, 2017, 8, 24815-24827.	0.8	42
56	Novel Multiomics Profiling of Human Carotid Atherosclerotic Plaques and Plasma Reveals Biliverdin Reductase B as a Marker of Intraplaque Hemorrhage. JACC Basic To Translational Science, 2018, 3, 464-480.	1.9	42
57	LIPG-promoted lipid storage mediates adaptation to oxidative stress in breast cancer. International Journal of Cancer, 2019, 145, 901-915.	2.3	41
58	Consequences of a high incidence of microsatellite instability and <i>BRAF</i> mutated tumors: A population-based cohort of metastatic colorectal cancer patients. Cancer Medicine, 2019, 8, 3623-3635.	1.3	40
59	Glioma-derived macrophage migration inhibitory factor (MIF) promotes mast cell recruitment in a STAT5-dependent manner. Molecular Oncology, 2014, 8, 50-58.	2.1	37
60	SATB2 is expressed in Merkel cell carcinoma. Archives of Dermatological Research, 2016, 308, 449-454.	1.1	37
61	Human Cytomegalovirus Tegument Protein pp65 Is Detected in All Intra- and Extra-Axial Brain Tumours Independent of the Tumour Type or Grade. PLoS ONE, 2014, 9, e108861.	1.1	37
62	The Human Pancreas Proteome Defined by Transcriptomics and Antibody-Based Profiling. PLoS ONE, 2014, 9, e115421.	1.1	35
63	Lipogenic signalling modulates prostate cancer cell adhesion and migration via modification of Rho GTPases. Oncogene, 2020, 39, 3666-3679.	2.6	35
64	CDX2: A Prognostic Marker in Metastatic Colorectal Cancer Defining a Better BRAF Mutated and a Worse KRAS Mutated Subgroup. Frontiers in Oncology, 2020, 10, 8.	1.3	35
65	GPR44 is a pancreatic protein restricted to the human beta cell. Acta Diabetologica, 2016, 53, 413-421.	1.2	34
66	The protein phosphatase 2A regulatory subunit PR70 is a gonosomal melanoma tumor suppressor gene. Science Translational Medicine, 2016, 8, 369ra177.	5.8	33
67	Inconsistent results in the analysis of ALK rearrangements in non-small cell lung cancer. BMC Cancer, 2016, 16, 603.	1.1	33
68	A specific antibody to detect transcription factor T-Pit: a reliable marker of corticotroph cell differentiation and a tool to improve the classification of pituitary neuroendocrine tumours. Acta Neuropathologica, 2017, 134, 675-677.	3.9	32
69	Glioma-derived plasminogen activator inhibitor-1 (PAI-1) regulates the recruitment of LRP1 positive mast cells. Oncotarget, 2015, 6, 23647-23661.	0.8	31
70	Survival-associated heterogeneity of marker-defined perivascular cells in colorectal cancer. Oncotarget, 0, 7, 41948-41958.	0.8	30
71	A human adipose tissue cell-type transcriptome atlas. Cell Reports, 2022, 40, 111046.	2.9	30
72	Systematic assessment of antibody selectivity in plasma based on a resource of enrichment profiles. Scientific Reports, 2019, 9, 8324.	1.6	29

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73	Prognostic impact of COX-2 in non-small cell lung cancer: A comprehensive compartment-specific evaluation of tumor and stromal cell expression. Cancer Letters, 2015, 356, 837-845.	3.2	28
74	HPV typing and HPV16E6-sequence variations in synchronous lesions of cervical squamous-cell carcinoma from Swedish patients. , 1999, 83, 34-37.		27
75	A systematic search strategy identifies cubilin as independent prognostic marker for renal cell carcinoma. BMC Cancer, 2017, 17, 9.	1.1	27
76	High RBM3 expression is associated with an improved survival and oxaliplatin response in patients with metastatic colorectal cancer. PLoS ONE, 2017, 12, e0182512.	1.1	27
77	The Urinary Bladder Transcriptome and Proteome Defined by Transcriptomics and Antibody-Based Profiling. PLoS ONE, 2015, 10, e0145301.	1.1	25
78	The Human Adrenal Gland Proteome Defined by Transcriptomics and Antibody-Based Profiling. Endocrinology, 2017, 158, 239-251.	1.4	25
79	The prognostic impact of the tumour stroma fraction: A machine learning-based analysis in 16 human solid tumour types. EBioMedicine, 2021, 65, 103269.	2.7	25
80	Loss of ASRGL1 expression is an independent biomarker for disease-specific survival in endometrioid endometrial carcinoma. Gynecologic Oncology, 2015, 137, 529-537.	0.6	24
81	Tumor Vessel Up-Regulation of INSR Revealed by Single-Cell Expression Analysis of the Tyrosine Kinome and Phosphatome in Human Cancers. American Journal of Pathology, 2015, 185, 1600-1609.	1.9	24
82	Breast cancer in young women and prognosis: How important are proliferation markers?. European Journal of Cancer, 2017, 84, 278-289.	1.3	24
83	Analysis of the Human Prostate-Specific Proteome Defined by Transcriptomics and Antibody-Based Profiling Identifies TMEM79 and ACOXL as Two Putative, Diagnostic Markers in Prostate Cancer. PLoS ONE, 2015, 10, e0133449.	1.1	23
84	Molecular characterization of a large unselected cohort of metastatic colorectal cancers in relation to primary tumor location, rare metastatic sites and prognosis. Acta OncolÃ³gica, 2020, 59, 417-426.	0.8	22
85	Endothelial cell heterogeneity and microglia regulons revealed by a pig cell landscape at single-cell level. Nature Communications, 2022, 13, .	5.8	22
86	Comparison of chromosome 3p deletions between cervical precancers synchronous with and without invasive cancer. , 2000, 86, 518-523.		21
87	Clonality of Precursors of Cervical Cancer and Their Genetical Links to Invasive Cancer. Modern Pathology, 2000, 13, 606-613.	2.9	20
88	Evaluation of Monospecific Antibodies. Applied Immunohistochemistry and Molecular Morphology, 2008, 16, 493-502.	0.6	20
89	Blood-derived biomarkers correlate with clinical progression in Duchenne muscular dystrophy. Journal of Neuromuscular Diseases, 2020, 7, 231-246.	1.1	20
90	In situ protein detection with enhanced specificity using DNA-conjugated antibodies and proximity ligation. Modern Pathology, 2018, 31, 253-263.	2.9	18

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91	Tumoral Pyruvate Kinase L/R as a Predictive Marker for the Treatment of Renal Cancer Patients with Sunitinib and Sorafenib. Journal of Cancer, 2019, 10, 3224-3231.	1.2	18
92	The noncoding MIR100HG RNA enhances the autocrine function of transforming growth factor Î² signaling. Oncogene, 2021, 40, 3748-3765.	2.6	18
93	Reaching the limits of prognostication in non-small cell lung cancer: an optimized biomarker panel fails to outperform clinical parameters. Modern Pathology, 2017, 30, 964-977.	2.9	17
94	Infiltration of NK and plasma cells is associated with a distinct immune subset in nonâ€small cell lung cancer. Journal of Pathology, 2021, 255, 243-256.	2.1	17
95	Oncogene-Induced Senescence in Pituitary Adenomasâ€"an Immunohistochemical Study. Endocrine Pathology, 2016, 27, 1-11.	5.2	16
96	Combined ASRGL1 and p53 immunohistochemistry as an independent predictor of survival in endometrioid endometrial carcinoma. Gynecologic Oncology, 2018, 149, 173-180.	0.6	16
97	Detection of autoantibodies against cancer-testis antigens in non-small cell lung cancer. Lung Cancer, 2018, 125, 157-163.	0.9	16
98	The Immune Landscape of Colorectal Cancer. Cancers, 2021, 13, 5545.	1.7	14
99	Genome-wide annotation of protein-coding genes in pig. BMC Biology, 2022, 20, 25.	1.7	14
100	Annotation of pituitary neuroendocrine tumors with genome-wide expression analysis. Acta Neuropathologica Communications, 2021, 9, 181.	2.4	12
101	Scalable In Situ Hybridization on Tissue Arrays for Validation of Novel Cancer and Tissue-Specific Biomarkers. PLoS ONE, 2012, 7, e32927.	1.1	11
102	Metastatic colorectal carcinomas with high SATB2 expression are associated with better prognosis and response to chemotherapy: a population-based Scandinavian study. Acta OncolÃ³gica, 2020, 59, 284-290.	0.8	11
103	PROX1 is a novel pathway-specific prognostic biomarker for high-grade astrocytomas; results from independent glioblastoma cohorts stratified by age and IDH mutation status. Oncotarget, 2016, 7, 72431-72442.	0.8	11
104	Cetuximab sensitivity of head and neck squamous cell carcinoma xenografts is associated with treatmentâ€induced reduction in <scp>EGFR</scp>, p<scp>EGFR</scp>, and pSrc. Journal of Oral Pathology and Medicine, 2017, 46, 717-724.	1.4	10
105	Mast Cell Infiltration in Human Brain Metastases Modulates the Microenvironment and Contributes to the Metastatic Potential. Frontiers in Oncology, 2017, 7, 115.	1.3	10
106	The Human Endometrium-Specific Proteome Defined by Transcriptomics and Antibody-Based Profiling. OMICS A Journal of Integrative Biology, 2015, 19, 659-668.	1.0	9
107	Tumoral ANXA1 Is a Predictive Marker for Sunitinib Treatment of Renal Cancer Patients. Journal of Cancer, 2017, 8, 3975-3983.	1.2	9
108	Affinity Proteomics Exploration of Melanoma Identifies Proteins in Serum with Associations to T-Stage and Recurrence. Translational Oncology, 2017, 10, 385-395.	1.7	8

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109	Proximity Ligation Assay as a Tool for Antibody Validation in Human Tissues. Journal of Histochemistry and Cytochemistry, 2020, 68, 515-529.	1.3	8
110	ELTD1 deletion reduces vascular abnormality and improves T-cell recruitment after PD-1 blockade in glioma. Neuro-Oncology, 2022, 24, 398-411.	0.6	7
111	Tumoral cubilin is a predictive marker for treatment of renal cancer patients with sunitinib and sorafenib. Journal of Cancer Research and Clinical Oncology, 2017, 143, 961-970.	1.2	5
112	Stroma-normalised vessel density predicts benefit from adjuvant fluorouracil-based chemotherapy in patients with stage II/III colon cancer. British Journal of Cancer, 2019, 121, 303-311.	2.9	5
113	A gene-centric approach to biomarker discovery identifies transglutaminase 1 as an epidermal autoantigen. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	4
114	Combined expression of HOXA11 and CD10 identifies endometriosis versus normal tissue and tumors. Annals of Diagnostic Pathology, 2022, 56, 151870.	0.6	3
115	Comparison of chromosome 3p deletions between cervical precancers synchronous with and without invasive cancer. , 2000, 86, 518.		1
116	Antibody Validation for Estrogen Receptor Beta. Methods in Molecular Biology, 2022, 2418, 1-23.	0.4	1