

Automatic classification of two-dimensional gel electro clustering analysis: A step toward machine learning

Electrophoresis

9, 136-142

DOI: [10.1002/elps.1150090307](https://doi.org/10.1002/elps.1150090307)

Citation Report

#	ARTICLE	IF	CITATIONS
1	The Need for Megatechnologies: Massive Sequencing, Proteomics and Bioinformatics. , 0, , 357-377.		1
2	Development of polyacrylamide gels that improve the separation of proteins and their detection by silver staining. Analytical Biochemistry, 1988, 173, 412-423.	2.4	326
3	Cerebrospinal fluid protein analysis in diseases of the nervous system. Biomedical Applications, 1988, 429, 345-358.	1.7	23
4	Database and search techniques for two-dimensional gel protein data: A comparison of paradigms for exploratory data analysis and prospects for biological modeling. Electrophoresis, 1989, 10, 122-140.	2.4	48
5	Image analysis techniques for automatic evaluation of two-dimensional electrophoresis. Electrophoresis, 1990, 11, 407-415.	2.4	7
6	Quantitative exploration of the REF52 protein database: Cluster analysis reveals the major protein expression profiles in responses to growth regulation, serum stimulation, and viral transformation. Electrophoresis, 1990, 11, 1114-1130.	2.4	51
7	Diurnal Rhythmicity in the Pattern of mRNAs in the Leaves of Sinapis alba. Plant Physiology, 1990, 94, 1590-1597.	4.8	8
8	Clinical molecular scanner: the MELANIE project. , 0, , .		2
9	Human cellular protein patterns and their link to genome DNA sequence data: usefulness of two-dimensional gel electrophoresis and microsequencing. FASEB Journal, 1991, 5, 2200-2208.	0.5	73
10	Stage transitions in B-lymphocyte differentiation correlate with limited variations in nuclear proteins.. Proceedings of the National Academy of Sciences of the United States of America, 1991, 88, 1830-1834.	7.1	16
11	Analysis of two-dimensional electrophoretic patterns of proteins obtained from the sera of normal and tumorbearing nude rats. Electrophoresis, 1991, 12, 80-83.	2.4	6
12	Global analysis of lymphocyte gene expression: Perturbation of H-9 cells by infection with distinct isolates of human immunodeficiency virus - an exposition by multivariate analysis of a host-parasite interface. Electrophoresis, 1991, 12, 554-569.	2.4	13
13	The MELANIE project: From a biopsy to automatic protein map interpretation by computer. Electrophoresis, 1991, 12, 722-735.	2.4	158
14	The rat liver epithelial (RLE) cell protein database. Electrophoresis, 1991, 12, 931-939.	2.4	27
15	Characterization of a human high density lipoprotein-associated protein, NA1/NA2. Identity with SP-40,40, an inhibitor of complement-mediated cytolysis.. Arteriosclerosis and Thrombosis: A Journal of Vascular Biology, 1991, 11, 645-652.	3.9	66
16	Multiple elevations of cytosolic-free Ca ²⁺ in human neutrophils: initiation by adherence receptors of the integrin family.. Journal of Cell Biology, 1991, 112, 1249-1257.	5.2	248
17	Plasma protein map: An update by microsequencing. Electrophoresis, 1992, 13, 707-714.	2.4	144
18	The human keratinocyte two-dimensional gel protein database (update 1992): Towards an integrated approach to the study of cell proliferation, differentiation and skin diseases. Electrophoresis, 1992, 13, 893-959.	2.4	104

#	ARTICLE	IF	CITATIONS
19	Human liver protein map: A reference database established by microsequencing and gel comparison. Electrophoresis, 1992, 13, 992-1001.	2.4	132
20	The human keratinocyte two-dimensional gel protein database: Update 1993. Electrophoresis, 1993, 14, 1091-1097.	2.4	68
21	Fish species identification in seafood products. Trends in Food Science and Technology, 1993, 4, 395-401.	15.1	89
22	Two-dimensional electrophoresis of proteins: An updated protocol and implications for a functional analysis of the genome. Electrophoresis, 1995, 16, 1034-1059.	2.4	726
23	Lung tumor cells: A multivariate approach to cell classification using two-dimensional protein pattern. Electrophoresis, 1995, 16, 1961-1968.	2.4	38
24	Protein analysis on a genomic scale. Journal of Biotechnology, 1995, 41, 111-120.	3.8	36
25	Current challenges and future applications for protein maps and post-translational vector maps in proteome projects. Electrophoresis, 1996, 17, 830-838.	2.4	179
26	Teaching a computer ion chromatography from a database of published methods. Journal of Chromatography A, 1996, 739, 15-24.	3.7	10
27	Melanie II - a third-generation software package for analysis of two-dimensional electrophoresis images: I. Features and user interface. Electrophoresis, 1997, 18, 2724-2734.	2.4	156
28	Melanie II - a third-generation software package for analysis of two-dimensional electrophoresis images: II. Algorithms. Electrophoresis, 1997, 18, 2735-2748.	2.4	179
29	Adaptive classification of two-dimensional gel electrophoretic spot patterns by neural networks and cluster analysis. Electrophoresis, 1997, 18, 2749-2754.	2.4	35
30	Two replica blotting methods for fast immunological analysis of common proteins in two-dimensional electrophoresis. Electrophoresis, 1998, 19, 752-757.	2.4	16
31	Proteome and proteomics: New technologies, new concepts, and new words. Electrophoresis, 1998, 19, 1853-1861.	2.4	920
32	Proteome in Perspective. Clinical Chemistry and Laboratory Medicine, 1998, 36, 825-36.	2.3	73
33	Statistical Methods for Proteomics. , 2002, 184, 051-080.		5
35	Functional genomics approaches to understanding brain disorders. Pharmacogenomics, 2002, 3, 31-45.	1.3	20
36	Apolipoprotein E and other cerebrospinal fluid proteins differentiate ante mortem variant Creutzfeldt-Jakob disease from ante mortem sporadic Creutzfeldt-Jakob disease. Electrophoresis, 2002, 23, 2242.	2.4	54
37	Identification of specific proteins in different lymphocyte populations by proteomic tools. Proteomics, 2002, 2, 105-111.	2.2	26

#	ARTICLE	IF	CITATIONS
38	Bioinformatics: Tools for Protein Technologies. , 0, , 309-328.		0
39	Proteomic map and database of lymphoblastoid proteins. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2002, 771, 197-209.	2.3	30
40	Plasticity of protein expression during culture of fetal skin cells. Electrophoresis, 2003, 24, 1281-1291.	2.4	14
41	Identification of biologic markers of the premature rupture of fetal membranes: Proteomic approach. Proteomics, 2003, 3, 1521-1525.	2.2	108
42	Proteomic Studies of Human Lymphocytes: New Insights into HIV Lymphocyte Infection?. , 2004, , 245-262.		2
43	Multivariate approaches in plant science. Phytochemistry, 2004, 65, 1531-1548.	2.9	48
44	Proteomics of methylene blue photo-treated plasma before and after removal of the dye by an absorbent filter. Proteomics, 2004, 4, 881-891.	2.2	45
45	Explorative data analysis of two-dimensional electrophoresis gels. Electrophoresis, 2004, 25, 502-511.	2.4	25
47	Proteome of Aedes aegypti larvae in response to infection by the intracellular parasite Vavraia culicis. International Journal for Parasitology, 2005, 35, 1385-1397.	3.1	49
48	Towards a new conceptual approach to "parasitoproteomics"™. Trends in Parasitology, 2005, 21, 162-168.	3.3	51
49	Numerical approaches for quantitative analysis of two-dimensional maps: A review of commercial software and home-made systems. Proteomics, 2005, 5, 654-666.	2.2	98
50	Bioinformatics approaches in clinical proteomics. Expert Review of Proteomics, 2005, 2, 847-862.	3.0	20
51	Behavioural manipulation in a grasshopper harbouring hairworm: a proteomics approach. Proceedings of the Royal Society B: Biological Sciences, 2005, 272, 2117-2126.	2.6	115
53	Systems level analysis of protein synthesis patterns associated with bacterial growth and metabolic transitions. Proteomics, 2006, 6, 785-793.	2.2	12
54	The pitfalls of proteomics experiments without the correct use of bioinformatics tools. Proteomics, 2006, 6, 5577-5596.	2.2	87
55	'Suicide' of crickets harbouring hairworms: a proteomics investigation. Insect Molecular Biology, 2006, 15, 731-742.	2.0	83
56	State-of-the-art two-dimensional gel electrophoresis: a key tool of proteomics research. Nature Protocols, 2006, 1, 812-823.	12.0	100
57	Proteome Research. , 2007, , .		11

#	ARTICLE	IF	CITATIONS
58	Assessment of Hierarchical Clustering Methodologies for Proteomic Data Mining. <i>Journal of Proteome Research</i> , 2007, 6, 358-366.	3.7	143
59	Methods, algorithms and tools in computational proteomics: A practical point of view. <i>Proteomics</i> , 2007, 7, 2815-2832.	2.2	91
60	The state of the art in the analysis of two-dimensional gel electrophoresis images. <i>Applied Microbiology and Biotechnology</i> , 2007, 76, 1223-1243.	3.6	244
61	Proteomic analysis of mononuclear cells of patients with minimal-change nephrotic syndrome of childhood. <i>Nephrology Dialysis Transplantation</i> , 2008, 24, 149-155.	0.7	5
62	Approaching clinical proteomics: current state and future fields of application in fluid proteomics. <i>Clinical Chemistry and Laboratory Medicine</i> , 2009, 47, 724-44.	2.3	112
63	Approaching clinical proteomics: Current state and future fields of application in cellular proteomics. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2009, 75A, 816-832.	1.5	52
64	Power and limitations of electrophoretic separations in proteomics strategies. <i>Mass Spectrometry Reviews</i> , 2009, 28, 816-843.	5.4	83
66	Two-dimensional gel electrophoresis in proteomics: Past, present and future. <i>Journal of Proteomics</i> , 2010, 73, 2064-2077.	2.4	383
67	Two-dimensional gel electrophoresis in proteomics: A tutorial. <i>Journal of Proteomics</i> , 2011, 74, 1829-1841.	2.4	225
68	The Whereabouts of 2D Gels in Quantitative Proteomics. <i>Methods in Molecular Biology</i> , 2012, 893, 25-35.	0.9	21
69	Proteomics in environmental and technical microbiology. <i>Engineering in Life Sciences</i> , 2014, 14, 27-46.	3.6	6
70	Paleoproteomics explained to youngsters: how did the wedding of two-dimensional electrophoresis and protein sequencing spark proteomics on: Let there be light. <i>Journal of Proteomics</i> , 2014, 107, 5-12.	2.4	10
71	Seeded Watershed Segmentation Based Proteomics for 2D-Gel Electrophoresis Images. , 2015, , .		0
72	The Latest Advancements in Proteomic Two-dimensional Gel Electrophoresis Analysis Applied to Biological Samples. <i>Methods in Molecular Biology</i> , 2015, 1243, 103-125.	0.9	5
73	Two-dimensional gel electrophoresis (2D-GE) image analysis based on CellProfiler. <i>Medicine (United Tj ETQq0 0 0 rgBT /Overlock 10 TF 5</i>	1.0	5
74	The Whereabouts of 2D Gels in Quantitative. <i>Methods in Molecular Biology</i> , 2021, 2228, 41-51.	0.9	1
75	Diagnosis of Sepsis by AI-Aided Proteomics Using 2D Electrophoresis Images of Patient Serum Incorporating Transfer Learning for Deep Neural Networks. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 1967.	2.5	2
77	Ten Years of the Proteome. , 2007, , 1-13.		3

#	ARTICLE	IF	CITATIONS
78	Clinical and Biomedical Applications of Proteomics. Principles and Practice, 1997, , 187-219.	0.3	34
79	The Evolution of Data-Driven Modeling in Organic Chemistry. ACS Central Science, 2021, 7, 1622-1637.	11.3	58
82	Image Analysis and Quantitation. , 2006, , 207-215.		0
83	Plasma proteomic analysis using liposome as a biological ligand.. Seibutsu Butsuri Kagaku, 2006, 50, 231-236.	0.1	1
84	Proteomic Methods in Cancer Research. , 2009, , 1-27.		0
85	The Application of Distributed Artificial Intelligence to Medical Diagnosis. Lecture Notes in Medical Informatics, 1991, , 160-172.	0.1	0
86	Human Cellular Protein Patterns and Their Link to Genome DNA Mapping and Sequencing Data: Towards an Integrated Approach to the Study of Gene Expression. , 1993, 15, 21-40.		0
88	Cluster and Principal Component Analysis of Human Glioblastoma Multiforme (GBM) Tumor Proteome. Iranian Journal of Cancer Prevention, 2014, 7, 87-95.	0.7	7
89	Navigating with chemometrics and machine learning in chemistry. Artificial Intelligence Review, 2023, 56, 9089-9114.	15.7	3