Akos Vegvari

List of Publications by Year in Descending Order

107 papers	2,177 citations	25 h-index	41 g-index
122 ext. papers	2,590 ext. citations	5.8 avg, IF	4.64 L-index

#	Paper	IF	Citations
107	Integrative proteo-transcriptomic and immunophenotyping signatures of HIV-1 elite control phenotype: A cross-talk between glycolysis and HIF signaling.. *IScience*, **2022**, 25, 103607	6.1	0
106	Single Cell Proteomics Using Multiplexed Isobaric Labeling for Mass Spectrometric Analysis. *Methods in Molecular Biology*, **2022**, 2386, 113-127	1.4	0
105	Trans cohort metabolic reprogramming towards glutaminolysis in long-term successfully treated HIV-infection.. *Communications Biology*, **2022**, 5, 27	6.7	3
104	Mass Spectrometry-Based Analytical Strategy for Single-Cell Proteomics.. *Methods in Molecular Biology*, **2022**, 2420, 63-72	1.4	
103	Peripheral blood CD4CCR6 compartment differentiates HIV-1 infected or seropositive elite controllers from long-term successfully treated individuals.. *Communications Biology*, **2022**, 5, 357	6.7	
102	Hepatocyte Thorns, A Novel Drug-Induced Stress Response in Human and Mouse Liver Spheroids. *Cells*, **2022**, 11, 1597	7.9	
101	Mass Spectrometry, Structural Analysis, and Anti-Inflammatory Properties of Photo-Cross-Linked Human Albumin Hydrogels.. *ACS Applied Bio Materials*, **2022**,	4.1	3
100	Nucleoside-modified mRNA vaccines protect IFNAR mice against Crimean Congo hemorrhagic fever virus infection. *Journal of Virology*, **2021**, JVI0156821	6.6	0
99	Metabolic Perturbation Associated With COVID-19 Disease Severity and SARS-CoV-2 Replication. *Molecular and Cellular Proteomics*, **2021**, 20, 100159	7.6	16
98	Cytotoxic Lymphocytes Target HIV-1 Gag Through Granzyme M-Mediated Cleavage. *Frontiers in Immunology*, **2021**, 12, 669347	8.4	0
97	Type-I interferon signatures in SARS-CoV-2 infected Huh7 cells. *Cell Death Discovery*, **2021**, 7, 114	6.9	9
96	Cell-type-resolved quantitative proteomics map of interferon response against SARS-CoV-2. *IScience*, **2021**, 24, 102420	6.1	20
95	Coordinated pyruvate kinase activity is crucial for metabolic adaptation and cell survival during mitochondrial dysfunction. *Human Molecular Genetics*, **2021**, 30, 2012-2026	5.6	0
94	Citrullination Alters the Antibacterial and Anti-Inflammatory Functions of the Host Defense Peptide Canine Cathelicidin K9CATH In Vitro. *Journal of Immunology*, **2021**, 207, 974-984	5.3	
93	The one-carbon pool controls mitochondrial energy metabolism via complex I and iron-sulfur clusters. *Science Advances*, **2021**, 7,	14.3	6
92	System-wide identification and prioritization of enzyme substrates by thermal analysis. *Nature Communications*, **2021**, 12, 1296	17.4	16
91	S100A6 is a critical regulator of hematopoietic stem cells. *Leukemia*, **2020**, 34, 3323-3337	10.7	3

90	Studies on citrullinated LL-37: detection in human airways, antibacterial effects and biophysical properties. *Scientific Reports*, **2020**, 10, 2376	4.9	12
89	Dysregulation in Akt/mTOR/HIF-1 signaling identified by proteo-transcriptomics of SARS-CoV-2 infected cells. *Emerging Microbes and Infections*, **2020**, 9, 1748-1760	18.9	108
88	Utility of Proteomics in Emerging and Re-Emerging Infectious Diseases Caused by RNA Viruses. *Journal of Proteome Research*, **2020**, 19, 4259-4274	5.6	14
87	Mutant Proteomics of Lung Adenocarcinomas Harboring Different Mutations. *Frontiers in Oncology*, **2020**, 10, 1494	5.3	4
86	Current status of clinical proteogenomics in lung cancer. *Expert Review of Proteomics*, **2019**, 16, 761-772	4.2	11
85	Malondialdehyde Conjugated With Albumin Induces Pro-Inflammatory Activation of T Cells Isolated From Human Atherosclerotic Plaques Both Directly and Via Dendritic Cell-Mediated Mechanism. *JACC Basic To Translational Science*, **2019**, 4, 480-494	8.7	5
84	ProTargetMiner as a proteome signature library of anticancer molecules for functional discovery. *Nature Communications*, **2019**, 10, 5715	17.4	16
83	Large Scale Identification of Variant Proteins in Glioma Stem Cells. *ACS Chemical Neuroscience*, **2018**, 9, 73-79	5.7	8
82	Deuteration of human carbonic anhydrase for neutron crystallography: Cell culture media, protein thermostability, and crystallization behavior. *Archives of Biochemistry and Biophysics*, **2018**, 645, 26-33	4.1	13
81	Limited Tumor Tissue Drug Penetration Contributes to Primary Resistance against Angiogenesis Inhibitors. *Theranostics*, **2017**, 7, 400-412	12.1	49
80	Relationship between HMF intake and SMF formation in vivo: An animal and human study. *Molecular Nutrition and Food Research*, **2017**, 61, 1600773	5.9	52
79	In vivo Distribution of Tiotropium in a Rodent Model Utilizing AP-SMALDI Mass Spectrometry Imaging. *Current Analytical Chemistry*, **2017**, 13, 182-186	1.7	2
78	Localization of tamoxifen in human breast cancer tumors by MALDI mass spectrometry imaging. *Clinical and Translational Medicine*, **2016**, 5, 10	5.7	20
77	Novel insights in drug metabolism by MS imaging. *Bioanalysis*, **2016**, 8, 575-88	2.1	14
76	Mutant Proteogenomics. *Advances in Experimental Medicine and Biology*, **2016**, 926, 77-91	3.6	7
75	Localization of sunitinib in in vivo animal and in vitro experimental models by MALDI mass spectrometry imaging. *Analytical and Bioanalytical Chemistry*, **2015**, 407, 2245-53	4.4	13
74	Quest for Missing Proteins: Update 2015 on Chromosome-Centric Human Proteome Project. *Journal of Proteome Research*, **2015**, 14, 3415-31	5.6	50
73	Drug localizations in tissue by mass spectrometry imaging. *Biomarkers in Medicine*, **2015**, 9, 869-76	2.3	10

72	Drug compound characterization by mass spectrometry imaging in cancer tissue. *Archives of Pharmacal Research*, **2015**, 38, 1718-27	6.1	19
71	In Vitro Transcription/Translation System: A Versatile Tool in the Search for Missing Proteins. *Journal of Proteome Research*, **2015**, 14, 3441-51	5.6	9
70	Systematic identification of single amino acid variants in glioma stem-cell-derived chromosome 19 proteins. *Journal of Proteome Research*, **2015**, 14, 778-86	5.6	19
69	Use of ENCODE resources to characterize novel proteoforms and missing proteins in the human proteome. *Journal of Proteome Research*, **2015**, 14, 603-8	5.6	16
68	Localization of sunitinib, its metabolites and its target receptors in tumour-bearing mice: a MALDI-MS imaging study. *British Journal of Pharmacology*, **2015**, 172, 1148-63	8.6	23
67	Association of chromosome 19 to lung cancer genotypes and phenotypes. *Cancer and Metastasis Reviews*, **2015**, 34, 217-26	9.6	21
66	Integrated chromosome 19 transcriptomic and proteomic data sets derived from glioma cancer stem-cell lines. *Journal of Proteome Research*, **2014**, 13, 191-9	5.6	21
65	A new look at drugs targeting malignant melanoma--an application for mass spectrometry imaging. *Proteomics*, **2014**, 14, 1963-70	4.8	25
64	Aptamer/ISET-MS: a new affinity-based MALDI technique for improved detection of biomarkers. *Analytical Chemistry*, **2014**, 86, 7627-34	7.8	23
63	Queries of MALDI-imaging global datasets identifying ion mass signatures associated with tissue compartments. *Proteomics*, **2014**, 14, 862-71	4.8	10
62	SC-23 * THE ROLE OF SINGLE AMINO ACID POLYMORPHISMS IN GLIOMA STEM CELL PHENOTYPES. *Neuro-Oncology*, **2014**, 16, v202-v202	1	78
61	Inflammatory markers in Huntington's disease plasma: A robust nanoLC-MRM-MS assay development. *EuPA Open Proteomics*, **2014**, 3, 68-75	0.1	5
60	Identification of Missing Proteins: Toward the Completion of Human Proteome. *Translational Bioinformatics*, **2014**, 7-18		
59	Developments in biobanking workflow standardization providing sample integrity and stability. *Journal of Proteomics*, **2013**, 95, 38-45	3.9	45
58	Chromosome 19 annotations with disease speciation: a first report from the Global Research Consortium. *Journal of Proteome Research*, **2013**, 12, 135-50	5.6	16
57	Establishing a Southern Swedish Malignant Melanoma OMICS and biobank clinical capability. *Clinical and Translational Medicine*, **2013**, 2, 7	5.7	15
56	Standardization developments for large scale biobanks in smoking related diseases - a model system for blood sample processing and storage. *Translational Respiratory Medicine*, **2013**, 1, 14		1
55	Development of an MRM assay panel with application to biobank samples from patients with myocardial infarction. *Journal of Proteomics*, **2013**, 87, 16-25	3.9	31

54	International biobanking for lung cancer and COPD as the future resource for clinical protein research. *EuPA Open Proteomics*, **2013**, 1, 3-7	0.1	2
53	Blood plasma reference material: a global resource for proteomic research. *Journal of Proteome Research*, **2013**, 12, 3087-92	5.6	12
52	Correlation queries for mass spectrometry imaging. *Analytical Chemistry*, **2013**, 85, 4398-404	7.8	13
51	Experimental models to study drug distributions in tissue using MALDI mass spectrometry imaging. *Journal of Proteome Research*, **2013**, 12, 5626-33	5.6	17
50	Quantification of human kallikrein-2 in clinical samples by selected reaction monitoring. *Journal of Proteome Research*, **2013**, 12, 4612-6	5.6	9
49	Accessing microenvironment compartments in formalin-fixed paraffin-embedded tissues by protein expression analysis. *Bioanalysis*, **2013**, 5, 2647-59	2.1	4
48	Identification of a novel proteoform of prostate specific antigen (SNP-L132I) in clinical samples by multiple reaction monitoring. *Molecular and Cellular Proteomics*, **2013**, 12, 2761-73	7.6	34
47	A critical evaluation of inflammatory markers in Huntingtons Disease plasma. *Journal of Huntingtons Disease*, **2013**, 2, 125-34	1.9	19
46	Clinical and Biomedical Mass Spectrometry: New Frontiers in Drug Developments and Diagnosis. *Translational Bioinformatics*, **2013**, 169-185		
45	Standardization and utilization of biobank resources in clinical protein science with examples of emerging applications. *Journal of Proteome Research*, **2012**, 11, 5124-34	5.6	41
44	Molecular microheterogeneity of prostate specific antigen in seminal fluid by mass spectrometry. *Clinical Biochemistry*, **2012**, 45, 331-8	3.5	17
43	Large scale biobanking of blood - the importance of high density sample processing procedures. *Journal of Proteomics*, **2012**, 76 Spec No., 116-24	3.9	24
42	Understanding drug uptake and binding within targeted disease micro-environments in patients: a new tool for translational medicine. *Clinical and Translational Medicine*, **2012**, 1, 8	5.7	20
41	Clinical proteomics. *International Journal of Proteomics*, **2012**, 2012, 641491		1
40	Cancer Phenotype Diagnosis and Drug Efficacy within Japanese Health Care. *International Journal of Proteomics*, **2012**, 2012, 921901		2
39	Direct demonstration of tissue uptake of an inhaled drug: proof-of-principle study using matrix-assisted laser desorption ionization mass spectrometry imaging. *Analytical Chemistry*, **2011**, 83, 8329-36	7.8	57
38	Moving towards high density clinical signature studies with a human proteome catalogue developing multiplexing mass spectrometry assay panels. *Journal of Clinical Bioinformatics*, **2011**, 1, 7		14
37	MRM assay for quantitation of complement components in human blood plasma - a feasibility study on multiple sclerosis. *Journal of Proteomics*, **2011**, 75, 211-20	3.9	14

36	Bioinformatic strategies for unambiguous identification of prostate specific antigen in clinical samples. *Journal of Proteomics*, **2011**, 75, 202-10	3.9	2
35	Biobank resources for future patient care: developments, principles and concepts. *Journal of Clinical Bioinformatics*, **2011**, 1, 24		37
34	Drug localization in different lung cancer phenotypes by MALDI mass spectrometry imaging. *Journal of Proteomics*, **2011**, 74, 982-92	3.9	94
33	State-of-the-art MS technology applications in lung disease. *Bioanalysis*, **2011**, 3, 2665-77	2.1	5
32	Clinical protein science and bioanalytical mass spectrometry with an emphasis on lung cancer. *Chemical Reviews*, **2010**, 110, 3278-98	68.1	30
31	Multiple sclerosis: Identification and clinical evaluation of novel CSF biomarkers. *Journal of Proteomics*, **2010**, 73, 1117-32	3.9	112
30	Identification of prostate-specific antigen (PSA) isoforms in complex biological samples utilizing complementary platforms. *Journal of Proteomics*, **2010**, 73, 1137-47	3.9	19
29	Isotope labeled internal standards (ILIS) as a basis for quality control in clinical studies using plasma samples. *Journal of Proteomics*, **2010**, 73, 1219-29	3.9	15
28	Essential tactics of tissue preparation and matrix nano-spotting for successful compound imaging mass spectrometry. *Journal of Proteomics*, **2010**, 73, 1270-8	3.9	32
27	Determination of dissociation constants between polyelectrolytes and proteins by affinity capillary electrophoresis. *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, **2009**, 877, 892-6	3.2	21
26	Identification of novel candidate protein biomarkers for the post-polio syndrome - implications for diagnosis, neurodegeneration and neuroinflammation. *Journal of Proteomics*, **2009**, 71, 670-81	3.9	32
25	General approach for certain quantitative calculations for instance of the variance of reversible adsorption to the capillary wall in CE. *Analytical Chemistry*, **2009**, 81, 343-8	7.8	1
24	Isolation and characterization of a small antiretroviral molecule affecting HIV-1 capsid morphology. *Retrovirology*, **2009**, 6, 34	3.6	6
23	Activity of the small modified amino acid alpha-hydroxy glycineamide on in vitro and in vivo human immunodeficiency virus type 1 capsid assembly and infectivity. *Antimicrobial Agents and Chemotherapy*, **2008**, 52, 3737-44	5.9	9
22	Implementation of a protein profiling platform developed as an academic-pharmaceutical industry collaborative effort. *Electrophoresis*, **2008**, 29, 2696-705	3.6	3
21	Universal method for synthesis of artificial gel antibodies by the imprinting approach combined with a unique electrophoresis technique for detection of minute structural differences of proteins, viruses and cells (bacteria). Ib. Gel antibodies against proteins (hemoglobins). *Electrophoresis*, **2007**, 28, 2345-50	3.6	24
20	Theoretical and nomenclatural considerations of capillary electrochromatography with monolithic stationary phases. *Electrophoresis*, **2006**, 27, 716-25	3.6	14
19	Universal method for synthesis of artificial gel antibodies by the imprinting approach combined with a unique electrophoresis technique for detection of minute structural differences of proteins, viruses, and cells (bacteria). III: gel antibodies against cells (bacteria). *Electrophoresis*, **2006**, 27, 4682-7	3.6	31

18	Chapter 3 Peptide and protein separations by capillary electrophoresis and electrochromatography. *Comprehensive Analytical Chemistry*, **2005**, 46, 149-252	1.9	3
17	Chapter 10 Technologies interfacing capillary electrophoresis to mass spectrometry. *Comprehensive Analytical Chemistry*, **2005**, 46, 449-485	1.9	2
16	Homogeneous gels for capillary electrochromatography. *Journal of Chromatography A*, **2005**, 1079, 50-8	4.5	14
15	2 Evolution and development of isoelectric focusing. *Separation Science and Technology*, **2005**, 7, 13-39	1.7	3
14	Hybrid microdevice electrophoresis of peptides, proteins, DNA, viruses, and bacteria in various separation media, using UV-detection. *Electrophoresis*, **2003**, 24, 3815-20	3.6	23
13	High-resolution capillary zone and gel electrophoresis of structurally similar amphipathic glutathione conjugates based on interaction with beta-cyclodextrins. *ChemBioChem*, **2002**, 3, 1117-25	3.8	6
12	A hybrid microdevice for electrophoresis and electrochromatography using UV detection. *Electrophoresis*, **2002**, 23, 3479-86	3.6	28
11	Stable homogeneous gel for molecular-sieving of DNA fragments in capillary electrophoresis. *Journal of Chromatography A*, **2002**, 960, 221-7	4.5	19
10	Tripeptide interference with human immunodeficiency virus type 1 morphogenesis. *Antimicrobial Agents and Chemotherapy*, **2002**, 46, 3597-605	5.9	27
9	Enantioseparation of hydroxy acids on easy-to-prepare continuous beds for capillary electrochromatography. *Electrophoresis*, **2001**, 22, 2616-9	3.6	58
8	A new easy-to-prepare homogeneous continuous electrochromatographic bed for enantiomer recognition. *Electrophoresis*, **2000**, 21, 3116-25	3.6	86
7	Chiral separation of amino acids by ligand-exchange capillary electrochromatography using continuous beds. *Electrophoresis*, **2000**, 21, 3141-4	3.6	93
6	(Normal-phase) capillary chromatography using acrylic polymer-based continuous beds. *Journal of Chromatography A*, **1999**, 837, 25-33	4.5	62
5	New set-up for capillary isoelectric focusing in uncoated capillaries. *Journal of Chromatography A*, **1998**, 813, 349-60	4.5	36
4	Chiral separation of alpha-amino acids by ligand-exchange capillary electrophoresis using N-(2-hydroxy-octyl)-L-4-hydroxyproline as a selector. *Electrophoresis*, **1998**, 19, 2109-12	3.6	55
3	Tropism of SARS-CoV-2 in commonly used laboratory cell lines and their proteomic landscape during infection		4
2	Implications of central carbon metabolism in SARS-CoV-2 replication and disease severity		3
1	Type-I interferon signatures in SARS-CoV-2 infected Huh7 cells		2