

# Miklos Guttman

## List of Publications by Citations

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57  
papers

3,013  
citations

27  
h-index

54  
g-index

60  
ext. papers

3,888  
ext. citations

10.9  
avg, IF

4.96  
L-index

#	Paper	IF	Citations
57	HIV-1 VACCINES. HIV-1 neutralizing antibodies induced by native-like envelope trimers. <i>Science</i> , <b>2015</b> , 349, aac4223	33.3	394
56	Crystal structure, conformational fixation and entry-related interactions of mature ligand-free HIV-1 Env. <i>Nature Structural and Molecular Biology</i> , <b>2015</b> , 22, 522-31	17.6	254
55	Immunogenicity of Stabilized HIV-1 Envelope Trimers with Reduced Exposure of Non-neutralizing Epitopes. <i>Cell</i> , <b>2015</b> , 163, 1702-15	56.2	251
54	Elicitation of Potent Neutralizing Antibody Responses by Designed Protein Nanoparticle Vaccines for SARS-CoV-2. <i>Cell</i> , <b>2020</b> , 183, 1367-1382.e17	56.2	217
53	Recommendations for performing, interpreting and reporting hydrogen deuterium exchange mass spectrometry (HDX-MS) experiments. <i>Nature Methods</i> , <b>2019</b> , 16, 595-602	21.6	216
52	Structures of HIV-1 Env V1V2 with broadly neutralizing antibodies reveal commonalities that enable vaccine design. <i>Nature Structural and Molecular Biology</i> , <b>2016</b> , 23, 81-90	17.6	126
51	Analysis of overlapped and noisy hydrogen/deuterium exchange mass spectra. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2013</b> , 24, 1906-12	3.5	114
50	Improving the Immunogenicity of Native-like HIV-1 Envelope Trimers by Hyperstabilization. <i>Cell Reports</i> , <b>2017</b> , 20, 1805-1817	10.6	112
49	CD4-induced activation in a soluble HIV-1 Env trimer. <i>Structure</i> , <b>2014</b> , 22, 974-84	5.2	101
48	Antibody potency relates to the ability to recognize the closed, pre-fusion form of HIV Env. <i>Nature Communications</i> , <b>2015</b> , 6, 6144	17.4	101
47	Sequential and Simultaneous Immunization of Rabbits with HIV-1 Envelope Glycoprotein SOSIP.664 Trimers from Clades A, B and C. <i>PLoS Pathogens</i> , <b>2016</b> , 12, e1005864	7.6	101
46	Local and global structural drivers for the photoactivation of the orange carotenoid protein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, E5567-74	11.5	86
45	Iterative structure-based improvement of a fusion-glycoprotein vaccine against RSV. <i>Nature Structural and Molecular Biology</i> , <b>2016</b> , 23, 811-820	17.6	76
44	All-atom ensemble modeling to analyze small-angle x-ray scattering of glycosylated proteins. <i>Structure</i> , <b>2013</b> , 21, 321-31	5.2	68
43	Influences on the Design and Purification of Soluble, Recombinant Native-Like HIV-1 Envelope Glycoprotein Trimers. <i>Journal of Virology</i> , <b>2015</b> , 89, 12189-210	6.6	66
42	Solution structure, conformational dynamics, and CD4-induced activation in full-length, glycosylated, monomeric HIV gp120. <i>Journal of Virology</i> , <b>2012</b> , 86, 8750-64	6.6	55
41	Site-Specific Mapping of Sialic Acid Linkage Isomers by Ion Mobility Spectrometry. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 5212-7	7.8	52

40	Dynamic changes during acid-induced activation of influenza hemagglutinin. <i>Structure</i> , <b>2015</b> , 23, 665-76	5.2	51
39	Tracking hydrogen/deuterium exchange at glycan sites in glycoproteins by mass spectrometry. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 7492-9	7.8	42
38	Quadrivalent influenza nanoparticle vaccines induce broad protection. <i>Nature</i> , <b>2021</b> , 592, 623-628	50.4	40
37	A functional interaction between gp41 and gp120 is observed for monomeric but not oligomeric, uncleaved HIV-1 Env gp140. <i>Journal of Virology</i> , <b>2013</b> , 87, 11462-75	6.6	33
36	Epitope-Independent Purification of Native-Like Envelope Trimers from Diverse HIV-1 Isolates. <i>Journal of Virology</i> , <b>2016</b> , 90, 9471-82	6.6	31
35	Membrane Interactions, Ligand-Dependent Dynamics, and Stability of Cytochrome P4503A4 in Lipid Nanodiscs. <i>Biochemistry</i> , <b>2016</b> , 55, 1058-69	3.2	30
34	Tuning a High Transmission Ion Guide to Prevent Gas-Phase Proton Exchange During H/D Exchange MS Analysis. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2016</b> , 27, 662-8	3.5	29
33	Control of RecBCD enzyme activity by DNA binding- and Chi hotspot-dependent conformational changes. <i>Journal of Molecular Biology</i> , <b>2014</b> , 426, 3479-99	6.5	29
32	Somatic Hypermutation-Induced Changes in the Structure and Dynamics of HIV-1 Broadly Neutralizing Antibodies. <i>Structure</i> , <b>2016</b> , 24, 1346-1357	5.2	29
31	Conformational dynamics of P-glycoprotein in lipid nanodiscs and detergent micelles reveal complex motions on a wide time scale. <i>Journal of Biological Chemistry</i> , <b>2018</b> , 293, 6297-6307	5.4	27
30	Isolate-specific differences in the conformational dynamics and antigenicity of HIV-1 gp120. <i>Journal of Virology</i> , <b>2013</b> , 87, 10855-73	6.6	25
29	Gas-Phase Hydrogen/Deuterium Exchange for Distinguishing Isomeric Carbohydrate Ions. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 4737-4742	7.8	24
28	Interplay of disordered and ordered regions of a human small heat shock protein yields an ensemble of 'quasi-ordered' states. <i>ELife</i> , <b>2019</b> , 8,	8.9	23
27	Changes in Structure and Antigenicity of HIV-1 Env Trimers Resulting from Removal of a Conserved CD4 Binding Site-Proximal Glycan. <i>Journal of Virology</i> , <b>2016</b> , 90, 9224-36	6.6	22
26	Isotope Labeling of Biomolecules: Structural Analysis of Viruses by HDX-MS. <i>Methods in Enzymology</i> , <b>2016</b> , 566, 405-26	1.7	20
25	Probing the Impact of Local Structural Dynamics of Conformational Epitopes on Antibody Recognition. <i>Biochemistry</i> , <b>2016</b> , 55, 2197-213	3.2	19
24	Structural monitoring of a transient intermediate in the hemagglutinin fusion machinery on influenza virions. <i>Science Advances</i> , <b>2020</b> , 6, eaaz8822	14.3	13
23	Tracking Higher Order Protein Structure by Hydrogen-Deuterium Exchange Mass Spectrometry. <i>Protein and Peptide Letters</i> , <b>2019</b> , 26, 16-26	1.9	13

22	Advances in Hydrogen/Deuterium Exchange Mass Spectrometry and the Pursuit of Challenging Biological Systems. <i>Chemical Reviews</i> , <b>2021</b> ,	68.1	13
21	Comparative glycoprofiling of HIV gp120 immunogens by capillary electrophoresis and MALDI mass spectrometry. <i>Electrophoresis</i> , <b>2015</b> , 36, 1305-13	3.6	12
20	Hypothalamic perineuronal net assembly is required for sustained diabetes remission induced by fibroblast growth factor 1 in rats. <i>Nature Metabolism</i> , <b>2020</b> , 2, 1025-1033	14.6	11
19	Bridging the structural gap of glycoproteomics with ion mobility spectrometry. <i>Current Opinion in Chemical Biology</i> , <b>2018</b> , 42, 86-92	9.7	11
18	Elicitation of potent neutralizing antibody responses by designed protein nanoparticle vaccines for SARS-CoV-2 <b>2020</b> ,		10
17	Quantitative analysis of chondroitin sulfate disaccharides from human and rodent fixed brain tissue by electrospray ionization-tandem mass spectrometry. <i>Glycobiology</i> , <b>2019</b> , 29, 847-860	5.8	9
16	The Myeloablative Drug Busulfan Converts Cysteine to Dehydroalanine and Lanthionine in Redoxins. <i>Biochemistry</i> , <b>2016</b> , 55, 4720-30	3.2	8
15	Probing the Stability of Proline Cis/Trans Isomers in the Gas Phase with Ultraviolet Photodissociation. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2020</b> , 31, 1974-1980	3.5	7
14	Extracellular Matrix Proteins Mediate HIV-1 gp120 Interactions with $\alpha$ Journal of Virology, <b>2017</b> , 91,	6.6	6
13	Simple Platform for Automating Decoupled LC-MS Analysis of Hydrogen/Deuterium Exchange Samples. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2021</b> , 32, 597-600	3.5	6
12	The influence of proline isomerization on potency and stability of anti-HIV antibody 10E8. <i>Scientific Reports</i> , <b>2020</b> , 10, 14313	4.9	5
11	Dissection of Fragmentation Pathways in Protonated N-Acetylhexosamines. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 11883-11891	7.8	5
10	Linkage Memory in Underivatized Protonated Carbohydrates. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2021</b> , 32, 581-589	3.5	4
9	Imidazolium Compounds as Internal Exchange Reporters for Hydrogen/Deuterium Exchange by Mass Spectrometry. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 9830-9837	7.8	4
8	Structure-Activity Relationships for CYP4B1 Bioactivation of 4-Ipomeanol Congeners: Direct Correlation between Cytotoxicity and Trapped Reactive Intermediates. <i>Chemical Research in Toxicology</i> , <b>2019</b> , 32, 2488-2498	4	4
7	High-Precision, Gas-Phase Hydrogen/Deuterium-Exchange Kinetics by Mass Spectrometry Enabled by Exchange Standards. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 7725-7732	7.8	2
6	Parallel Chemoselective Profiling for Mapping Protein Structure. <i>Cell Chemical Biology</i> , <b>2020</b> , 27, 1084-1096.e42		
5	The ubiquitin ligase SspH1 from uses a modular and dynamic E3 domain to catalyze substrate ubiquitylation. <i>Journal of Biological Chemistry</i> , <b>2019</b> , 294, 783-793	5.4	2

4	Interplay of disordered and ordered regions of a human small heat shock protein yields an ensemble of quasi-ordered states		1
3	Rapid Assessment of Pepsin Column Activity for Reliable HDX-MS Studies. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2021</b> , 32, 2386-2390	3.5	1
2	Rapid Differentiation of Chondroitin Sulfate Isomers by Gas-phase Hydrogen-deuterium Exchange. <i>Current Molecular Medicine</i> , <b>2020</b> , 20, 821-827	2.5	0
1	Complementary Approaches to Dissecting Mechanisms of Protein-mediated Membrane Fusion. <i>Microscopy and Microanalysis</i> , <b>2015</b> , 21, 1279-1280	0.5	