List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Structural and molecular modelling studies reveal a new mechanism of action of chloroquine and hydroxychloroquine against SARS-CoV-2 infection. International Journal of Antimicrobial Agents, 2020, 55, 105960.	1.1	460
2	Galactosyl ceramide (or a closely related molecule) is the receptor for human immunodeficiency virus type 1 on human colon epithelial HT29 cells. Journal of Virology, 1992, 66, 4848-4854.	1.5	236
3	Identification of a Common Sphingolipid-binding Domain in Alzheimer, Prion, and HIV-1 Proteins. Journal of Biological Chemistry, 2002, 277, 11292-11296.	1.6	209
4	Lipid rafts: structure, function and role in HIV, Alzheimer's and prion diseases. Expert Reviews in Molecular Medicine, 2002, 4, 1-22.	1.6	200
5	Molecular insights into amyloid regulation by membrane cholesterol and sphingolipids: common mechanisms in neurodegenerative diseases. Expert Reviews in Molecular Medicine, 2010, 12, e27.	1.6	153
6	Both direct and indirect effects account for the pro-inflammatory activity of enteropathogenic mycotoxins on the human intestinal epithelium: Stimulation of interleukin-8 secretion, potentiation of interleukin-11 <sup>2</sup> effect and increase in the transepithelial passage of commensal bacteria. Toxicology and Applied Pharmacology, 2008, 228, 84-92.	1.3	141
7	Specific Interaction of HIV-1 and HIV-2 Surface Envelope Glycoproteins with Monolayers of Galactosylceramide and Ganglioside GM3. Journal of Biological Chemistry, 1998, 273, 7967-7971.	1.6	137
8	Common molecular mechanism of amyloid pore formation by Alzheimer's β-amyloid peptide and α-synuclein. Scientific Reports, 2016, 6, 28781.	1.6	137
9	Human Erythrocyte Glycosphingolipids as Alternative Cofactors for Human Immunodeficiency Virus Type 1 (HIV-1) Entry: Evidence for CD4-Induced Interactions between HIV-1 gp120 and Reconstituted Membrane Microdomains of Glycosphingolipids (Gb3 and GM3). Journal of Virology, 1999, 73, 5244-5248.	1.5	133
10	Interaction of Alzheimer's β-Amyloid Peptides with Cholesterol: Mechanistic Insights into Amyloid Pore Formation. Biochemistry, 2014, 53, 4489-4502.	1.2	125
11	Molecular Basis for the Glycosphingolipid-Binding Specificity of α-Synuclein: Key Role of Tyrosine 39 in Membrane Insertion. Journal of Molecular Biology, 2011, 408, 654-669.	2.0	111
12	Synthetic Soluble Analogs of Galactosylceramide (GalCer) Bind to the V3 Domain of HIV-1 gp120 and Inhibit HIV-1-induced Fusion and Entry. Journal of Biological Chemistry, 1997, 272, 7245-7252.	1.6	110
13	The fusogenic tilted peptide (67–78) of α-synuclein is a cholesterol binding domain. Biochimica Et Biophysica Acta - Biomembranes, 2011, 1808, 2343-2351.	1.4	107
14	Mutation Patterns of the Reverse Transcriptase and Protease Genes in Human Immunodeficiency Virus Type 1-Infected Patients Undergoing Combination Therapy: Survey of 787 Sequences. Journal of Clinical Microbiology, 1999, 37, 4099-4106.	1.8	105
15	How Cholesterol Constrains Glycolipid Conformation for Optimal Recognition of Alzheimer's β Amyloid Peptide (Aβ1-40). PLoS ONE, 2010, 5, e9079.	1.1	101
16	Human immunodeficiency virus can infect the apical and basolateral surfaces of human colonic epithelial cells Proceedings of the National Academy of Sciences of the United States of America, 1991, 88, 9297-9301.	3.3	92
17	Synergistic antiviral effect of hydroxychloroquine and azithromycin in combination against SARS-CoV-2: What molecular dynamics studies of virus-host interactions reveal. International Journal of Antimicrobial Agents, 2020, 56, 106020.	1.1	87
18	Co-expression of CXCR4/fusin and galactosylceramide in the human intestinal epithelial cell line HT-29. Aids, 1997, 11, 1311-1318.	1.0	86

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19	Cholesterol accelerates the binding of Alzheimer's β-amyloid peptide to ganglioside GM1 through a universal hydrogen-bond-dependent sterol tuning of glycolipid conformation. Frontiers in Physiology, 2013, 4, 120.	1.3	86
20	Interaction of cholesterol with sphingosine. Journal of Lipid Research, 2005, 46, 36-45.	2.0	78
21	The first extracellular domain of the tumour stem cell marker CD133 contains an antigenic ganglioside-binding motif. Cancer Letters, 2009, 278, 164-173.	3.2	77
22	Synthetic multimeric peptides derived from the principal neutralization domain (V3 loop) of human immunodeficiency virus type 1 (HIV-1) gp120 bind to galactosylceramide and block HIV-1 infection in a human CD4-negative mucosal epithelial cell line. Journal of Virology, 1995, 69, 320-325.	1.5	75
23	Resistance of HIV-1 to multiple antiretroviral drugs in France. Aids, 2003, 17, 2383-2388.	1.0	74
24	Biochemical Identification of a Linear Cholesterol-Binding Domain within Alzheimer's β Amyloid Peptide. ACS Chemical Neuroscience, 2013, 4, 509-517.	1.7	73
25	Human colon epithelial cells productively infected with human immunodeficiency virus show impaired differentiation and altered secretion. Journal of Virology, 1992, 66, 580-585.	1.5	67
26	Prediction of Glycolipid-Binding Domains from the Amino Acid Sequence of Lipid Raft-Associated Proteins:Â Application to HpaA, a Protein Involved in the Adhesion ofHelicobacter pylorito Gastrointestinal Cells. Biochemistry, 2006, 45, 10957-10962.	1.2	65
27	Prevalence of drug resistant mutants and virological response to combination therapy in patients with primary HIV-1 infection. , 2000, 61, 181-186.		64
28	SPC3, a V3 Loop-Derived Synthetic Peptide Inhibitor of HIV-1 Infection, Binds to Cell Surface Glycosphingolipidsâ€. Biochemistry, 1996, 35, 15663-15671.	1.2	63
29	Sequential Interaction of CD4 and HIV-1 gp120 with a Reconstituted Membrane Patch of Ganglioside GM3: Implications for the Role of Glycolipids as Potential HIV-1 Fusion Cofactors. Biochemical and Biophysical Research Communications, 1998, 246, 117-122.	1.0	63
30	The Driving Force of Alpha-Synuclein Insertion and Amyloid Channel Formation in the Plasma Membrane of Neural Cells: Key Role of Ganglioside- and Cholesterol-Binding Domains. Advances in Experimental Medicine and Biology, 2013, 991, 15-26.	0.8	63
31	The puzzling mutational landscape of the SARSâ€2â€variant Omicron. Journal of Medical Virology, 2022, 94, 2019-2025.	2.5	63
32	Quantification of HIV-1 viral load in lymphoid and blood cells. Aids, 1997, 11, 895-901.	1.0	61
33	Altered Ion Channel Formation by the Parkinson's-Disease-Linked E46K Mutant of α-Synuclein Is Corrected by GM3 but Not by GM1 Gangliosides. Journal of Molecular Biology, 2010, 397, 202-218.	2.0	61
34	Bexarotene Blocks Calcium-Permeable Ion Channels Formed by Neurotoxic Alzheimer's β-Amyloid Peptides. ACS Chemical Neuroscience, 2014, 5, 216-224.	1.7	60
35	Structural dynamics of SARS-CoV-2 variants: A health monitoring strategy for anticipating Covid-19 outbreaks. Journal of Infection, 2021, 83, 197-206.	1.7	60
36	Multidrug Resistance Genotypes (Insertions in the β3–β4 Finger Subdomain and MDR Mutations) of HIV-1 Reverse Transcriptase from Extensively Treated Patients: Incidence and Association with Other Resistance Mutations. Virology, 2000, 270, 310-316.	1.1	58

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37	Culture and identification of a "Deltamicron―SARSâ€CoVâ€2 in a three cases cluster in southern France. Journal of Medical Virology, 2022, 94, 3739-3749.	2.5	58
38	Role of glycosphingolipid microdomains in CD4-dependent HIV-1 fusion. Glycoconjugate Journal, 2000, 17, 199-204.	1.4	57
39	Glycosphingolipid (GSL) microdomains as attachment platforms for host pathogens and their toxins on intestinal epithelial cells: activation of signal transduction pathways and perturbations of intestinal absorption and secretion. Glycoconjugate Journal, 2000, 17, 173-179.	1.4	57
40	Sulfatide Inhibits HIV-1 Entry into CD4â^'/CXCR4+Cells. Virology, 1998, 246, 211-220.	1.1	50
41	Deciphering the Glycolipid Code of Alzheimer's and Parkinson's Amyloid Proteins Allowed the Creation of a Universal Ganglioside-Binding Peptide. PLoS ONE, 2014, 9, e104751.	1.1	48
42	Direct Effect of Type 1 Human Immunodeficiency Virus (HIV-1) on Intestinal Epithelial Cell Differentiation: Relationship to HIV-1 Enteropathy. Virology, 1997, 238, 231-242.	1.1	47
43	Use of Drug Resistance Sequence Data for the Systematic Detection of Nonâ€B Human Immunodeficiency Virus Type 1 (HIVâ€1) Subtypes: How to Create a Sentinel Site for Monitoring the Genetic Diversity of HIVâ€1 at a Country Scale. Journal of Infectious Diseases, 2001, 183, 1311-1317.	1.9	47
44	Rafts and related glycosphingolipid-enriched microdomains in the intestinal epithelium: bacterial targets linked to nutrient absorption. Advanced Drug Delivery Reviews, 2004, 56, 779-794.	6.6	47
45	Leveraging coronavirus binding to gangliosides for innovative vaccine and therapeutic strategies against COVID-19. Biochemical and Biophysical Research Communications, 2021, 538, 132-136.	1.0	47
46	Intracellular calcium release induced by human immunodeficiency virus type 1 (HIV-1) surface envelope glycoprotein in human intestinal epithelial cells: a putative mechanism for HIV-1 enteropathy. Cell Calcium, 1995, 18, 9-18.	1.1	46
47	Progress toward Alzheimer's disease treatment: Leveraging the Achilles' heel of Aβ oligomers?. Protein Science, 2020, 29, 1748-1759.	3.1	45
48	SPC3, a synthetic peptide derived from the V3 domain of human immunodeficiency virus type 1 (HIV-1) gp120, inhibits HIV-1 entry into CD4+ and CD4- cells by two distinct mechanisms Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 4867-4871.	3.3	44
49	Genomic and phylogenetic analysis of hepatitis C virus isolates: A survey of 535 strains circulating in southern France. Journal of Medical Virology, 2003, 71, 391-398.	2.5	44
50	Stable rearrangements of the β3–β4 hairpin loop of HIV-1 reverse transcriptase in plasma viruses from patients receiving combination therapy. Aids, 1998, 12, F161-F166.	1.0	40
51	Multibranched V3 peptides inhibit human immunodeficiency virus infection in human lymphocytes and macrophages. Journal of Virology, 1994, 68, 5714-5720.	1.5	40
52	Selected human immunodeficiency virus replicates preferentially through the basolateral surface of differentiated human colon epithelial cells. Virology, 1991, 185, 904-907.	1.1	39
53	Emergence in southern France of a new SARS-CoV-2 variant harbouring both N501Y and E484K substitutions in the spike protein. Archives of Virology, 2022, 167, 1185-1190.	0.9	39
54	Mutation L210W of HIV-1 reverse transcriptase in patients receiving combination therapy. Journal of Biomedical Science, 2000, 7, 507-513.	2.6	37

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55	A post-CD4-binding step involving interaction of the V3 region of viral gp120 with host cell surface glycosphingolipids is common to entry and infection by diverse HIV-1 strains. Antiviral Research, 2002, 56, 233-251.	1.9	37
56	Anandamide Revisited: How Cholesterol and Ceramides Control Receptor-Dependent and Receptor-Independent Signal Transmission Pathways of a Lipid Neurotransmitter. Biomolecules, 2018, 8, 31.	1.8	37
57	Infection-enhancing anti-SARS-CoV-2 antibodies recognize both the original Wuhan/D614G strain and Delta variants. A potential risk for mass vaccination?. Journal of Infection, 2021, 83, 607-635.	1.7	35
58	Discrepancies in AIDS virus data. Nature, 1991, 351, 277-278.	13.7	33
59	Interferon-Î <sup>3</sup> Decreases Cell Surface Expression of Galactosyl Ceramide, the Receptor for HIV-1 GP120 on Human Colonic Epithelial Cells. Virology, 1994, 204, 550-557.	1.1	30
60	Comparison of viral burden and phenotype of HIV-1 isolates from lymph nodes and blood. Aids, 1994, 8, 1083-1088.	1.0	26
61	Apical uptake and transepithelial transport of sphingosine monomers through intact human intestinal epithelial cells: Physicochemical and molecular modeling studies. Archives of Biochemistry and Biophysics, 2005, 440, 91-100.	1.4	26
62	Genetic polymorphism near HIV-1 reverse transcriptase resistance-associated codons is a major obstacle for the line probe assay as an alternative method to sequence analysis. Journal of Virological Methods, 1999, 80, 25-31.	1.0	24
63	Perturbations of glucose metabolism associated with HIV infection in human intestinal epithelial cells. Aids, 1997, 11, 147-155.	1.0	22
64	Comparison of Human Immunodeficiency Virus Type 1 (HIV-1) Protease Mutations in HIV-1 Genomes Detected in Plasma and in Peripheral Blood Mononuclear Cells from Patients Receiving Combination Drug Therapy. Journal of Clinical Microbiology, 1999, 37, 1595-1597.	1.8	22
65	HIV-1-Induced Perturbations of Glycosphingolipid Metabolism Are Cell-Specific and Can Be Detected at Early Stages of HIV-1 Infection. Journal of Acquired Immune Deficiency Syndromes, 1998, 19, 221-229.	0.3	21
66	High Individual Heterogeneity of Neutralizing Activities against the Original Strain and Nine Different Variants of SARS-CoV-2. Viruses, 2021, 13, 2177.	1.5	21
67	Innovative treatment targeting gangliosides aimed at blocking the formation of neurotoxic α-synuclein oligomers in Parkinson's disease. Glycoconjugate Journal, 2022, 39, 1-11.	1.4	20
68	Broad neutralization of calcium-permeable amyloid pore channels with a chimeric Alzheimer/Parkinson peptide targeting brain gangliosides. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2016, 1862, 213-222.	1.8	19
69	First cases of infection with the 21L/BA.2 Omicron variant in Marseille, France. Journal of Medical Virology, 2022, 94, 3421-3430.	2.5	19
70	GalCer, CD26 and HIV infection of intestinal epithelial cells. Aids, 1994, 8, 1347-1348.	1.0	17
71	Genetic Analysis of HIV Type 1 Strains in Bujumbura (Burundi): Predominance of Subtype C Variant. AIDS Research and Human Retroviruses, 2001, 17, 269-273.	0.5	17
72	Ganglioside binding domains in proteins: Physiological and pathological mechanisms. Advances in Protein Chemistry and Structural Biology, 2022, 128, 289-324.	1.0	17

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73	Structural variability ofenv andgag gene products from a highly cytopathic strain of HIV-1. Archives of Virology, 1992, 125, 287-298.	0.9	16
74	A New Method for the Determination of Specific 13C Enrichment in Phosphorylated [1-13C]glucose Metabolites. 13C-coupled, 1H-decoupled 31P -NMR Spectroscopy of Tissue Perchloric Acid Extracts. FEBS Journal, 1996, 238, 470-475.	0.2	14
75	Reconstitution of Sphingolipid–Cholesterol Plasma Membrane Mlcrodomalns for Studies of Virus-Glycolipid Interactions. Methods in Enzymology, 2000, 312, 495-506.	0.4	14
76	Structural analysis of reverse transcriptase mutations at codon 215 explains the predominance of T215Y over T215F in HIV-1 variants selected under antiretroviral therapy. Journal of Biomedical Science, 2005, 12, 701-710.	2.6	14
77	Analysis of individual purine and pyrimidine nucleoside di- and triphosphates and other cellular metabolites in PCA extracts by using multinuclear high resolution NMR spectroscopy. Magnetic Resonance in Medicine, 1996, 36, 788-795.	1.9	13
78	Inhibition of human immunodeficiency virus infection in human colon epithelial cells by recombinant interferon-Î <sup>3</sup> . European Journal of Immunology, 1992, 22, 2495-2499.	1.6	12
79	Transmission of HIV-1 variants resistant to the three classes of antiretroviral agents: implications for HIV therapy in primary infection. Aids, 2002, 16, 507-509.	1.0	12
80	Structural Dynamics of the SARS-CoV-2 Spike Protein: A 2-Year Retrospective Analysis of SARS-CoV-2 Variants (from Alpha to Omicron) Reveals an Early Divergence between Conserved and Variable Epitopes. Molecules, 2022, 27, 3851.	1.7	12
81	Human T-lymphoblastoid cells selected for growth in serum-free medium provide new tools for study of HIV replication and cytopathogenicity. Journal of Virological Methods, 1991, 34, 193-207.	1.0	11
82	Physical contact with lymphocytes is required for reactivation of dormant HIV-1 in colonic epithelial cells: involvement of the HIV-1 LTR. Virus Research, 1994, 34, 1-13.	1.1	11
83	Mutations in HIV-1 gag cleavage sites and their association with protease mutations. Aids, 2001, 15, 526-528.	1.0	11
84	Monoclonal antibodies to toxin II from the scorpion Androctonus australis Hector: Further characterization of epitope specificities and neutralizing capacities. Toxicon, 1992, 30, 723-731.	0.8	10
85	Lipid Regulation of Receptor Function. , 2015, , 163-181.		10
86	Gene Therapy Strategy for Alzheimer's and Parkinson's Diseases Aimed at Preventing the Formation of Neurotoxic Oligomers in SH-SY5Y Cells. International Journal of Molecular Sciences, 2021, 22, 11550.	1.8	10
87	Ceramide binding to anandamide increases its half-life and potentiates its cytotoxicity in human neuroblastoma cells. Chemistry and Physics of Lipids, 2017, 205, 11-17.	1.5	9
88	The novel hamster-adapted SARS-CoV-2 Delta variant may be selectively advantaged in humans. Journal of Infection, 2022, 84, e53-e54.	1.7	9
89	Tumor necrosis factor-α stimulates both apical and basal production of HIV in polarized human intestinal HT29 cells. Immunology Letters, 1992, 34, 85-90.	1.1	8
90	Anandamide-ceramide interactions in a membrane environment: Molecular dynamic simulations data. Data in Brief, 2017, 14, 163-167.	0.5	8

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91	Comparison of two commercial assays for the detection of insertion mutations of HIV-1 reverse transcriptase. Journal of Clinical Virology, 2001, 21, 153-162.	1.6	7
92	Comparison of the amyloid pore forming properties of rat and human Alzheimer's beta-amyloid peptide 1-42: Calcium imaging data. Data in Brief, 2016, 6, 640-643.	0.5	7
93	Relationship between HIV-1 viral load and continued drug use in untreated infected injection drug users. Addiction Biology, 1999, 4, 197-202.	1.4	6
94	Genetic determinants controlling HIV-1 tropism for CD4â^'/GalCer+ human intestinal epithelial cells. Journal of Computer - Aided Molecular Design, 1996, 5, 161-168.	1.0	5
95	Cellular isoform of the prion protein PrPc in human intestinal cell lines: Genetic polymorphism at codon 129, mRNA quantification and protein detection in lipid rafts. Cell Biology International, 2006, 30, 559-567.	1.4	5
96	A Unifying Theory. , 2015, , 313-336.		5
97	Evolution of HIV-1 multidrug-resistant genotypes during combination therapy and after the cessation of antiretroviral drugs. Aids, 2000, 14, 2943-2945.	1.0	5
98	Production of a highly cytopathic HIV-1 isolate from a human mucosal epithelial cell line cultured on microcarrier beads in serum-free medium. In Vitro Cellular and Developmental Biology - Animal, 1995, 31, 62-66.	0.7	4
99	V3 loop-derived multibranched peptides as inhibitors of HIV infection in CD4+ and CD4â^' cells. Journal of Computer - Aided Molecular Design, 1996, 5, 243-250.	1.0	4
100	Therapeutic Strategies for Neurodegenerative Diseases. , 2015, , 337-363.		4
101	Secondary structure predictions of HIV-1 reverse transcriptase provide new insights into the development of drug-resistance genotypes. Aids, 2001, 15, 1191-1192.	1.0	4
102	Detection of functional galactosylceramide (GalCer) receptors on CD4-negative HIV-1 target cells. Journal of Computer - Aided Molecular Design, 1996, 5, 192-202.	1.0	3
103	Uncommon Association of T69 3-Base-Pair Insertion Plus Q151M Multidrug Resistance Mutations in Human Immunodeficiency Virus Type 1 Reverse Transcriptase. Antimicrobial Agents and Chemotherapy, 2004, 48, 4493-4494.	1.4	3
104	Limited spread of a rare spike E484K-harboring SARS-CoV-2 in Marseille, France. Archives of Virology, 2022, 167, 583.	0.9	3
105	SPC3, a nontoxic peptide inhibitor of HIV infection. In Vitro Cellular and Developmental Biology - Animal, 1995, 31, 415-418.	0.7	2
106	Suramin: A polysulfonated compound that inhibits the binding of HIV-1 gp120 to GalCer/sulfatide and blocks the CD4-independent pathway of HIV-1 infection in mucosal epithelial cells. Journal of Computer - Aided Molecular Design, 1996, 5, 225-233.	1.0	2
107	Lipid Metabolism and Oxidation in Neurons and Glial Cells. , 2015, , 53-85.		2

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109	Evaluation of multibranched peptides as inhibitors of HIV infection. International Journal of Peptide Research and Therapeutics, 1994, 1, 17-24.	0.1	1
110	Galactosylceramide and transmembrane signalling in enterocytes: Calcium response induced by HIV-1 surface-envelope glycoprotein gp120. Journal of Computer - Aided Molecular Design, 1996, 5, 181-191.	1.0	1
111	Chemical Basis of Lipid Biochemistry. , 2015, , 1-28.		1
112	Variations of Brain Lipid Content. , 2015, , 87-108.		1
113	Common Mechanisms in Neurodegenerative Diseases. , 2015, , 183-200.		1
114	Morphological alterations associated with HIV infection of CD4â^²/GalCer+ human intestinal epithelial cells. Journal of Computer - Aided Molecular Design, 1996, 5, 73-82.	1.0	0
115	Glycosphingolipides et fusion virus-cellule : données actuelles montrant le rÃ1e des micro-domaines membranaires dans le cycle d'infection du VIH-1. Oleagineux Corps Gras Lipides, 2000, 7, 449-455.	0.2	0
116	Brain Membranes. , 2015, , 29-51.		0
117	Protein–Lipid Interactions in the Brain. , 2015, , 135-162.		0
118	Creutzfeldt–Jakob Disease. , 2015, , 201-222.		0
119	Cholesterol-recognizing amino acid consensus motifs in transmembrane proteins: Comparative analysis of in silico studies and structural data. , 2022, , 127-145.		0