

Dieter Blaas

List of Publications by Year in descending order

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81900

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65
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120
all docs

120
docs citations

120
times ranked

4512
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#	ARTICLE	IF	CITATIONS
1	Effect of Bafilomycin A1 and Nocodazole on Endocytic Transport in HeLa Cells: Implications for Viral Uncoating and Infection. <i>Journal of Virology</i> , 1998, 72, 9645-9655.	3.4	291
2	Cleavage site analysis in picornaviral polyproteins: Discovering cellular targets by neural networks. <i>Protein Science</i> , 1996, 5, 2203-2216.	7.6	219
3	Charge-reduced nano electrospray ionization combined with differential mobility analysis of peptides, proteins, glycoproteins, noncovalent protein complexes and viruses. <i>Journal of Mass Spectrometry</i> , 2001, 36, 1038-1052.	1.6	202
4	Virus-Ligand Interactions: Identification and Characterization of Ligand Binding by NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2003, 125, 14-15.	13.7	196
5	Multiple receptors involved in human rhinovirus attachment to live cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 17778-17783.	7.1	159
6	X-ray structure of a minor group human rhinovirus bound to a fragment of its cellular receptor protein. <i>Nature Structural and Molecular Biology</i> , 2004, 11, 429-434.	8.2	143
7	Rhinovirus induces an anabolic reprogramming in host cell metabolism essential for viral replication. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E7158-E7165.	7.1	115
8	Mechanism of entry of human rhinovirus 2 into HeLa cells. <i>Virology</i> , 1987, 158, 255-258.	2.4	110
9	Major and Minor Receptor Group Human Rhinoviruses Penetrate from Endosomes by Different Mechanisms. <i>Journal of Virology</i> , 1998, 72, 1354-1364.	3.4	99
10	Insights into Minor Group Rhinovirus Uncoating: The X-ray Structure of the HRV2 Empty Capsid. <i>PLoS Pathogens</i> , 2012, 8, e1002473.	4.7	98
11	IgGs are made for walking on bacterial and viral surfaces. <i>Nature Communications</i> , 2014, 5, 4394.	12.8	97
12	Human Rhinovirus Type 2 Is Internalized by Clathrin-Mediated Endocytosis. <i>Journal of Virology</i> , 2003, 77, 5360-5369.	3.4	90
13	Polypeptide 2A of human rhinovirus type 2: Identification as a protease and characterization by mutational analysis. <i>Virology</i> , 1989, 169, 68-77.	2.4	89
14	Uncoating of human rhinoviruses. <i>Reviews in Medical Virology</i> , 2010, 20, 281-297.	8.3	89
15	Very-Low-Density Lipoprotein Receptor Fragment Shed from HeLa Cells Inhibits Human Rhinovirus Infection. <i>Journal of Virology</i> , 1998, 72, 10246-10250.	3.4	80
16	Analysis of Common Cold Virus (Human Rhinovirus Serotype 2) by Capillary Zone Electrophoresis: The Problem of Peak Identification. <i>Analytical Chemistry</i> , 1999, 71, 2028-2032.	6.5	75
17	The Minor Receptor Group of Human Rhinovirus (HRV) Includes HRV23 and HRV25, but the Presence of a Lysine in the VP1 HI Loop Is Not Sufficient for Receptor Binding. <i>Journal of Virology</i> , 2005, 79, 7389-7395.	3.4	74
18	The Concerted Conformational Changes during Human Rhinovirus 2 Uncoating. <i>Molecular Cell</i> , 2002, 10, 317-326.	9.7	72

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19	Human Rhinovirus Type 89 Variants Use Heparan Sulfate Proteoglycan for Cell Attachment. <i>Journal of Virology</i> , 2005, 79, 5963-5970.	3.4	72
20	Determination of the pI of Human Rhinovirus Serotype 2 by Capillary Isoelectric Focusing. <i>Analytical Chemistry</i> , 1996, 68, 4300-4303.	6.5	65
21	Mechanism of human rhinovirus infections. <i>Molecular and Cellular Pediatrics</i> , 2016, 3, 21.	1.8	65
22	Cryoelectron Microscopy Analysis of the Structural Changes Associated with Human Rhinovirus Type 14 Uncoating. <i>Journal of Virology</i> , 2004, 78, 2935-2942.	3.4	61
23	Three-dimensional structure of the Fab fragment of a neutralizing antibody to human rhinovirus serotype 2. <i>Protein Science</i> , 1992, 1, 1154-1161.	7.6	58
24	Conformational Changes, Plasma Membrane Penetration, and Infection by Human Rhinovirus Type 2: Role of Receptors and Low pH. <i>Journal of Virology</i> , 2003, 77, 5370-5377.	3.4	58
25	A reversible haploid mouse embryonic stem cell biobank resource for functional genomics. <i>Nature</i> , 2017, 550, 114-118.	27.8	58
26	Opening of Size-Selective Pores in Endosomes during Human Rhinovirus Serotype 2 In Vivo Uncoating Monitored by Single-Organelle Flow Analysis. <i>Journal of Virology</i> , 2005, 79, 1008-1016.	3.4	56
27	Expression and regulation of Schlafen (SLFN) family members in primary human monocytes, monocyte-derived dendritic cells and T cells. <i>Results in Immunology</i> , 2015, 5, 23-32.	2.2	56
28	A novel mechanism of antibody-mediated enhancement of flavivirus infection. <i>PLoS Pathogens</i> , 2017, 13, e1006643.	4.7	56
29	Affinity Capillary Electrophoresis for the Assessment of Complex Formation between Viruses and Monoclonal Antibodies. <i>Analytical Chemistry</i> , 2000, 72, 4634-4639.	6.5	54
30	Inhibition of Clathrin-dependent Endocytosis Has Multiple Effects on Human Rhinovirus Serotype 2 Cell Entry. <i>Journal of Biological Chemistry</i> , 2001, 276, 3952-3962.	3.4	54
31	Structure of a Neutralizing Antibody Bound Monovalently to Human Rhinovirus 2. <i>Journal of Virology</i> , 1998, 72, 4396-4402.	3.4	54
32	Separation and Biospecific Identification of Subviral Particles of Human Rhinovirus Serotype 2 by Capillary Zone Electrophoresis. <i>Analytical Chemistry</i> , 1999, 71, 4480-4485.	6.5	52
33	Complexes between Monoclonal Antibodies and Receptor Fragments with a Common Cold Virus: Determination of Stoichiometry by Capillary Electrophoresis. <i>Analytical Chemistry</i> , 2001, 73, 3900-3906.	6.5	52
34	Uncoating of common cold virus is preceded by RNA switching as determined by X-ray and cryo-EM analyses of the subviral A-particle. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 20063-20068.	7.1	51
35	Human rhinovirus HRV14 uncoats from early endosomes in the presence of bafilomycin. <i>FEBS Letters</i> , 1999, 463, 175-178.	2.8	50
36	Expression and Folding of Human Very-Low-Density Lipoprotein Receptor Fragments: Neutralization Capacity toward Human Rhinovirus HRV2. <i>Virology</i> , 2000, 278, 541-550.	2.4	49

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37	Substrate requirements of a human rhinoviral 2A proteinase. <i>Virology</i> , 1991, 181, 46-54.	2.4	47
38	Recombinant soluble low density lipoprotein receptor fragment inhibits minor group rhinovirus infection in vitro. <i>FASEB Journal</i> , 1998, 12, 695-703.	0.5	46
39	Viral Uncoating Is Directional: Exit of the Genomic RNA in a Common Cold Virus Starts with the Poly-(A) Tail at the 3' End. <i>PLoS Pathogens</i> , 2013, 9, e1003270.	4.7	43
40	Viral entry pathways: the example of common cold viruses. <i>Wiener Medizinische Wochenschrift</i> , 2016, 166, 211-226.	1.1	43
41	Sequence and Structure of Human Rhinoviruses Reveal the Basis of Receptor Discrimination. <i>Journal of Virology</i> , 2003, 77, 6923-6930.	3.4	42
42	Gas-Phase Electrophoretic Molecular Mobility Analysis of Size and Stoichiometry of Complexes of a Common Cold Virus with Antibody and Soluble Receptor Molecules. <i>Analytical Chemistry</i> , 2008, 80, 2261-2264.	6.5	40
43	Human rhinovirus mutants resistant to low pH. <i>Virology</i> , 1991, 183, 757-763.	2.4	38
44	Productive Entry Pathways of Human Rhinoviruses. <i>Advances in Virology</i> , 2012, 2012, 1-13.	1.1	37
45	Analysis of a Common Cold Virus and Its Subviral Particles by Gas-Phase Electrophoretic Mobility Molecular Analysis and Native Mass Spectrometry. <i>Analytical Chemistry</i> , 2015, 87, 8709-8717.	6.5	37
46	Cellular N-myristoyltransferases play a crucial picornavirus genus-specific role in viral assembly, virion maturation, and infectivity. <i>PLoS Pathogens</i> , 2018, 14, e1007203.	4.7	37
47	Viral Evolution toward Change in Receptor Usage: Adaptation of a Major Group Human Rhinovirus To Grow in ICAM-1-Negative Cells. <i>Journal of Virology</i> , 2001, 75, 9312-9319.	3.4	36
48	A Cellular Receptor of Human Rhinovirus Type 2, the Very-Low-Density Lipoprotein Receptor, Binds to Two Neighboring Proteins of the Viral Capsid. <i>Journal of Virology</i> , 2003, 77, 8504-8511.	3.4	35
49	Monitoring RNA Release from Human Rhinovirus by Dynamic Force Microscopy. <i>Journal of Virology</i> , 2004, 78, 3203-3209.	3.4	35
50	Human Rhinovirus Type 54 Infection via Heparan Sulfate Is Less Efficient and Strictly Dependent on Low Endosomal pH. <i>Journal of Virology</i> , 2007, 81, 4625-4632.	3.4	35
51	Capillary electrophoresis of viruses, subviral particles and virus complexes. <i>Journal of Separation Science</i> , 2007, 30, 1704-1713.	2.5	35
52	VLDL Receptor Fragments of Different Lengths Bind to Human Rhinovirus HRV2 with Different Stoichiometry. <i>Journal of Biological Chemistry</i> , 2001, 276, 1057-1062.	3.4	34
53	Labeling of Capsid Proteins and Genomic RNA of Human Rhinovirus with Two Different Fluorescent Dyes for Selective Detection by Capillary Electrophoresis. <i>Analytical Chemistry</i> , 2004, 76, 7360-7365.	6.5	34
54	Recent developments in capillary and chip electrophoresis of bioparticles: Viruses, organelles, and cells. <i>Electrophoresis</i> , 2011, 32, 1579-1590.	2.4	34

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55	Twelve receptor molecules attach per viral particle of human rhinovirus serotype 2 via multiple modules. <i>FEBS Letters</i> , 2004, 568, 99-104.	2.8	33
56	Species-Specific Receptor Recognition by a Minor-Group Human Rhinovirus (HRV): HRV Serotype 1A Distinguishes between the Murine and the Human Low-Density Lipoprotein Receptor. <i>Journal of Virology</i> , 2002, 76, 6957-6965.	3.4	32
57	Neutralization of a common cold virus by concatemers of the third ligand binding module of the VLDL-receptor strongly depends on the number of modules. <i>Virology</i> , 2005, 338, 259-269.	2.4	32
58	Wortmannin delays transfer of human rhinovirus serotype 2 to late endocytic compartments. <i>Biochemical and Biophysical Research Communications</i> , 2006, 348, 741-749.	2.1	32
59	Attachment of VLDL Receptors to an Icosahedral Virus along the 5-fold Symmetry Axis: Multiple Binding Modes Evidenced by Fluorescence Correlation Spectroscopy. <i>Biochemistry</i> , 2007, 46, 6331-6339.	2.5	32
60	Influence of detergent additives on mobility of native and subviral rhinovirus particles in capillary electrophoresis. <i>Electrophoresis</i> , 2006, 27, 1112-1121.	2.4	31
61	Capillary Electrophoresis with Postcolumn Infectivity Assay for the Analysis of Different Serotypes of Human Rhinovirus (Common Cold Virus). <i>Analytical Chemistry</i> , 2000, 72, 2553-2558.	6.5	30
62	Elevated Endosomal pH in HeLa Cells Overexpressing Mutant Dynamin Can Affect Infection by pH-Sensitive Viruses. <i>Traffic</i> , 2001, 2, 727-736.	2.7	30
63	Binding of Fluorescent Dye to Genomic RNA Inside Intact Human Rhinovirus after Viral Capsid Penetration Investigated by Capillary Electrophoresis. <i>Analytical Chemistry</i> , 2004, 76, 882-887.	6.5	30
64	Visualization of Single Receptor Molecules Bound to Human Rhinovirus under Physiological Conditions. <i>Structure</i> , 2005, 13, 1247-1253.	3.3	30
65	Entry of a heparan sulphate-binding HRV8 variant strictly depends on dynamin but not on clathrin, caveolin, and flotillin. <i>Virology</i> , 2011, 412, 55-67.	2.4	30
66	Soluble LDL Minireceptors. <i>Journal of Biological Chemistry</i> , 1998, 273, 33835-33840.	3.4	28
67	Virus analysis using electromigration techniques. <i>Electrophoresis</i> , 2009, 30, 133-140.	2.4	28
68	Capillary electrophoresis of affinity complexes between subviral 80S particles of human rhinovirus and monoclonal antibody 2G2. <i>Electrophoresis</i> , 2006, 27, 2630-2637.	2.4	27
69	Human Rhinovirus 14 Enters Rhabdomyosarcoma Cells Expressing ICAM-1 by a Clathrin-, Caveolin-, and Flotillin-Independent Pathway. <i>Journal of Virology</i> , 2010, 84, 3984-3992.	3.4	27
70	Minor group human rhinovirus receptor interactions: Geometry of multimodular attachment and basis of recognition. <i>FEBS Letters</i> , 2009, 583, 235-240.	2.8	26
71	Liposomal Nanocontainers as Models for Viral Infection: Monitoring Viral Genomic RNA Transfer through Lipid Membranes. <i>Journal of Virology</i> , 2011, 85, 8368-8375.	3.4	26
72	Crystallization and preliminary X-ray diffraction studies of the Lb proteinase from foot-and-mouth disease virus. <i>Protein Science</i> , 1996, 5, 1931-1933.	7.6	25

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73	Site of Human Rhinovirus RNA Uncoating Revealed by Fluorescent In Situ Hybridization. <i>Journal of Virology</i> , 2009, 83, 3770-3777.	3.4	25
74	Electrophoresis on a microfluidic chip for analysis of fluorescence-labeled human rhinovirus. <i>Electrophoresis</i> , 2007, 28, 4734-4740.	2.4	23
75	Characterization of rhinovirus subviral A particles via capillary electrophoresis, electron microscopy and gas-phase electrophoretic mobility molecular analysis: Part I. <i>Electrophoresis</i> , 2012, 33, 1833-1841.	2.4	23
76	Human Rhinovirus Subviral A Particle Binds to Lipid Membranes over a Twofold Axis of Icosahedral Symmetry. <i>Journal of Virology</i> , 2013, 87, 11309-11312.	3.4	23
77	Kinetics of thermal denaturation of human rhinoviruses in the presence of anti-viral capsid binders analyzed by capillary electrophoresis. <i>Electrophoresis</i> , 2002, 23, 896-902.	2.4	22
78	Rhinovirus-stabilizing activity of artificial VLDL-receptor variants defines a new mechanism for virus neutralization by soluble receptors. <i>FEBS Letters</i> , 2005, 579, 5507-5511.	2.8	22
79	Mimicking Early Events of Virus Infection: Capillary Electrophoretic Analysis of Virus Attachment to Receptor-Decorated Liposomes. <i>Analytical Chemistry</i> , 2007, 79, 1620-1625.	6.5	22
80	Virus analysis by electrophoresis on a microfluidic chip. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2007, 860, 173-179.	2.3	22
81	Conformation of Receptor Adopted upon Interaction with Virus Revealed by Site-Specific Fluorescence Quenchers and FRET Analysis. <i>Journal of the American Chemical Society</i> , 2009, 131, 5478-5482.	13.7	22
82	Cryo-EM structure of pleconaril-resistant rhinovirus-B5 complexed to the antiviral OBR-5-340 reveals unexpected binding site. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 19109-19115.	7.1	22
83	Docking of a human rhinovirus neutralizing antibody onto the viral capsid. <i>Proteins: Structure, Function and Bioinformatics</i> , 1995, 23, 491-501.	2.6	21
84	Human Rhinovirus Type 2 Uncoating at the Plasma Membrane Is Not Affected by a pH Gradient but Is Affected by the Membrane Potential. <i>Journal of Virology</i> , 2009, 83, 3778-3787.	3.4	21
85	Mimicking virus attachment to host cells employing liposomes: Analysis by chip electrophoresis. <i>Electrophoresis</i> , 2009, 30, 2123-2128.	2.4	20
86	nanoDSF: In vitro Label-Free Method to Monitor Picornavirus Uncoating and Test Compounds Affecting Particle Stability. <i>Frontiers in Microbiology</i> , 2020, 11, 1442.	3.5	20
87	Low pH-Triggered Beta-Propeller Switch of the Low-Density Lipoprotein Receptor Assists Rhinovirus Infection. <i>Journal of Virology</i> , 2009, 83, 10922-10930.	3.4	19
88	Human Rhinovirus Type 2-Antibody Complexes Enter and Infect Cells via Fc γ Receptor IIB1. <i>Journal of Virology</i> , 2004, 78, 2729-2737.	3.4	18
89	Determination of the Kinetic On- and Off-Rate of Single Virus-Cell Interactions. <i>Methods in Molecular Biology</i> , 2011, 736, 197-210.	0.9	16
90	Quasi-crystalline Arrangement of Human Rhinovirus 2 on Model Cell Membranes. <i>Single Molecules</i> , 2001, 2, 99-103.	0.9	15

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91	Chip electrophoretic characterization of liposomes with biological lipid composition: Coming closer to a model for viral infection. <i>Electrophoresis</i> , 2009, 30, 4292-4299.	2.4	15
92	ICAM-1 Binding Rhinoviruses Enter HeLa Cells via Multiple Pathways and Travel to Distinct Intracellular Compartments for Uncoating. <i>Viruses</i> , 2017, 9, 68.	3.3	15
93	Use of free-flow electrophoresis for the analysis of cellular uptake of picornaviruses. <i>Electrophoresis</i> , 1997, 18, 2531-2536.	2.4	14
94	Identification of the Human Rhinovirus Serotype 1A Binding Site on the Murine Low-Density Lipoprotein Receptor by Using Human-Mouse Receptor Chimeras. <i>Journal of Virology</i> , 2004, 78, 6766-6774.	3.4	14
95	Monolithic anion-exchange chromatography yields rhinovirus of high purity. <i>Journal of Virological Methods</i> , 2018, 251, 15-21.	2.1	12
96	The Rhinovirus Subviral A-Particle Exposes 3' Terminal Sequences of Its Genomic RNA. <i>Journal of Virology</i> , 2014, 88, 6307-6317.	3.4	11
97	Rhinovirus Inhibitors: Including a New Target, the Viral RNA. <i>Viruses</i> , 2021, 13, 1784.	3.3	11
98	Nonneutralizing Human Rhinovirus Serotype 2-Specific Monoclonal Antibody 2G2 Attaches to the Region That Undergoes the Most Dramatic Changes upon Release of the Viral RNA. <i>Journal of Virology</i> , 2006, 80, 12398-12401.	3.4	10
99	Entry of human rhinovirus 89 via ICAM-1 into HeLa epithelial cells is inhibited by actin skeleton disruption and by bafilomycin. <i>Archives of Virology</i> , 2014, 159, 125-140.	2.1	10
100	Recombinant soluble low-density lipoprotein receptor fragment inhibits common cold infection. , 1998, 11, 49-51.		9
101	Liposomal Leakage Induced by Virus-Derived Peptides, Viral Proteins, and Entire Virions: Rapid Analysis by Chip Electrophoresis. <i>Analytical Chemistry</i> , 2010, 82, 8146-8152.	6.5	9
102	Capillary Electrophoresis, Gas-Phase Electrophoretic Mobility Molecular Analysis, and Electron Microscopy: Effective Tools for Quality Assessment and Basic Rhinovirus Research. <i>Methods in Molecular Biology</i> , 2015, 1221, 101-128.	0.9	9
103	ICAM-1 Binding Rhinoviruses A89 and B14 Uncoat in Different Endosomal Compartments. <i>Journal of Virology</i> , 2016, 90, 7934-7942.	3.4	8
104	Release of Vesicular Stomatitis Virus Spike Protein G-Pseudotyped Lentivirus from the Host Cell Is Impaired upon Low-Density Lipoprotein Receptor Overexpression. <i>Journal of Virology</i> , 2015, 89, 11723-11726.	3.4	5
105	Human Rhinovirus Cell Entry and Uncoating. , 2008, , 1-41.		5
106	Preferential recognition of the very low-density lipoprotein receptor ligand binding site by antibodies from phage display libraries. <i>FEBS Letters</i> , 1996, 396, 14-20.	2.8	4
107	A Mutation in the First Ligand-Binding Repeat of the Human Very-Low-Density Lipoprotein Receptor Results in High-Affinity Binding of the Single V1 Module to Human Rhinovirus 2. <i>Journal of Virology</i> , 2005, 79, 14730-14736.	3.4	4
108	Atomic Force Microscopy Studies of Human Rhinovirus. <i>Methods in Enzymology</i> , 2010, 475, 515-539.	1.0	4

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109	Immunolocalization of Picornavirus RNA in infected cells with antibodies to Tyr-pUp, the covalent linkage unit between VPg and RNA. <i>Journal of Virological Methods</i> , 2011, 171, 206-211.	2.1	4
110	Predictive bioinformatic identification of minor receptor group human rhinoviruses. <i>FEBS Letters</i> , 2009, 583, 2547-2551.	2.8	2
111	In vitro RNA release from a human rhinovirus monitored by means of a molecular beacon and chip electrophoresis. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 4209-4217.	3.7	2
112	Catching Common Cold Virus with a Net: Pyridostatin Forms Filaments in Tris Buffer That Trap Viruses – A Novel Antiviral Strategy?. <i>Viruses</i> , 2020, 12, 723.	3.3	2
113	Individual subunits of a rhinovirus causing common cold exhibit largely different protein-RNA contact site conformations. <i>Communications Biology</i> , 2020, 3, 537.	4.4	2
114	Human Rhinovirus Minor Group Receptors. , 0, , 93-105.		1
115	Nanoimaging, Molecular Interaction, and Nanotemplating of Human Rhinovirus. <i>Nanoscience and Technology</i> , 2011, , 589-643.	1.5	0