

# Jennifer Lois McKimm-Breschkin

## List of Publications by Year in descending order

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64  
papers

5,337  
citations

136950

32  
h-index

118850

62  
g-index

66  
all docs

66  
docs citations

66  
times ranked

5896  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | COVID-19, Influenza and RSV: Surveillance-informed prevention and treatment “ Meeting report from an isriv-WHO virtual conference. Antiviral Research, 2022, 197, 105227.  | 4.1  | 19        |
| 2  | Influenza polymerase inhibitor resistance: Assessment of the current state of the art - A report of the isriv Antiviral group. Antiviral Research, 2021, 194, 105158.  | 4.1  | 24        |
| 3  | Substitutions at H134 and in the 430-loop region in influenza B neuraminidases can confer reduced susceptibility to multiple neuraminidase inhibitors. Antiviral Research, 2020, 182, 104895.  | 4.1  | 1         |
| 4  | A clinical trial lacking a control group. International Journal of Infectious Diseases, 2019, 89, 189.   | 3.3  | 0         |
| 5  | Influenza Virus Neuraminidase Structure and Functions. Frontiers in Microbiology, 2019, 10, 39.  | 3.5  | 280       |
| 6  | Passaging of an influenza A(H1N1)pdm09 virus in a difluoro sialic acid inhibitor selects for a novel, but unfit I106M neuraminidase mutant. Antiviral Research, 2019, 169, 104542.   | 4.1  | 5         |
| 7  | Structure of an Influenza A virus N9 neuraminidase with a tetrabrachion-domain stalk. Acta Crystallographica Section F, Structural Biology Communications, 2019, 75, 89-97.  | 0.8  | 7         |
| 8  | Structural and Functional Analysis of Anti-Influenza Activity of 4-, 7-, 8- and 9-Deoxygenated 2,3-Difluoro- <i>N</i> -acetylneuraminic Acid Derivatives. Journal of Medicinal Chemistry, 2018, 61, 1921-1933.                           | 6.4  | 9         |
| 9  | Identification of Indonesian clade 2.1 highly pathogenic influenza A(H5N1) viruses with N294S and S246N neuraminidase substitutions which further reduce oseltamivir susceptibility. Antiviral Research, 2018, 153, 95-100.              | 4.1  | 10        |
| 10 | The neuraminidases of MDCK grown human influenza A(H3N2) viruses isolated since 1994 can demonstrate receptor binding. Virology Journal, 2015, 12, 67.   | 3.4  | 42        |
| 11 | Catalytic mechanism and novel receptor binding sites of human parainfluenza virus type 3 hemagglutinin-neuraminidase (hPIV3 HN). Antiviral Research, 2015, 123, 216-223.   | 4.1  | 15        |
| 12 | Neuraminidase mutations conferring resistance to laninamivir lead to faster drug binding and dissociation. Antiviral Research, 2015, 114, 62-66.   | 4.1  | 15        |
| 13 | Solid phase assay for comparing reactivation rates of neuraminidases of influenza wild type and resistant mutants after inhibitor removal. Antiviral Research, 2014, 108, 30-35.   | 4.1  | 4         |
| 14 | Stereoselective synthesis and sialidase inhibition properties of KDO-based glycosyloxathiins. Arkivoc, 2014, 2014, 65-79.  | 0.5  | 1         |
| 15 | Reduced susceptibility to all neuraminidase inhibitors of influenza H1N1 viruses with haemagglutinin mutations and mutations in non-conserved residues of the neuraminidase. Journal of Antimicrobial Chemotherapy, 2013, 68, 2210-2221. | 3.0  | 40        |
| 16 | Mechanism-Based Covalent Neuraminidase Inhibitors with Broad-Spectrum Influenza Antiviral Activity. Science, 2013, 340, 71-75.   | 12.6 | 175       |
| 17 | Influenza neuraminidase inhibitors: antiviral action and mechanisms of resistance. Influenza and Other Respiratory Viruses, 2013, 7, 25-36.  | 3.4  | 291       |
| 18 | I222 Neuraminidase Mutations Further Reduce Oseltamivir Susceptibility of Indonesian Clade 2.1 Highly Pathogenic Avian Influenza A(H5N1) Viruses. PLoS ONE, 2013, 8, e66105.   | 2.5  | 21        |

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|----|--|------|-----------|
| 19 | In vitro passaging of a pandemic H1N1/09 virus selects for viruses with neuraminidase mutations conferring high-level resistance to oseltamivir and peramivir, but not to zanamivir. <i>Journal of Antimicrobial Chemotherapy</i> , 2012, 67, 1874-1883. | 3.0  | 27        |
| 20 | Taking down the FLAG! How Insect Cell Expression Challenges an Established Tag-System. <i>PLoS ONE</i> , 2012, 7, e37779.  | 2.5  | 21        |
| 21 | A Generic System for the Expression and Purification of Soluble and Stable Influenza Neuraminidase. <i>PLoS ONE</i> , 2011, 6, e16284.   | 2.5  | 41        |
| 22 | Plaque Formation Assay for Human Parainfluenza Virus Type 1. <i>Biological and Pharmaceutical Bulletin</i> , 2011, 34, 996-1000.   | 1.4  | 9         |
| 23 | Mixed influenza A and B infections complicate the detection of influenza viruses with altered sensitivities to neuraminidase inhibitors. <i>Antiviral Research</i> , 2011, 91, 20-22.  | 4.1  | 7         |
| 24 | Real Time Enzyme Inhibition Assays Provide Insights into Differences in Binding of Neuraminidase Inhibitors to Wild Type and Mutant Influenza Viruses. <i>PLoS ONE</i> , 2011, 6, e23627.  | 2.5  | 35        |
| 25 | Structural and Functional Basis of Resistance to Neuraminidase Inhibitors of Influenza B Viruses. <i>Journal of Medicinal Chemistry</i> , 2010, 53, 6421-6431.   | 6.4  | 75        |
| 26 | Complexity in Influenza Virus Targeted Drug Design: Interaction with Human Sialidases. <i>Journal of Medicinal Chemistry</i> , 2010, 53, 2998-3002.  | 6.4  | 62        |
| 27 | Surveillance for neuraminidase-inhibitor-resistant influenza viruses in Japan, 1996-2007. <i>Antiviral Therapy</i> , 2009, 14, 751-762.  | 1.0  | 71        |
| 28 | News About Influenza B Drug Resistance That Cannot Be Ignored. <i>JAMA - Journal of the American Medical Association</i> , 2007, 297, 1492-3.  | 7.4  | 16        |
| 29 | ER Stress Triggers Apoptosis by Activating BH3-Only Protein Bim. <i>Cell</i> , 2007, 129, 1337-1349.   | 28.9 | 1,235     |
| 30 | Reduced Sensitivity of Influenza A (H5N1) to Oseltamivir. <i>Emerging Infectious Diseases</i> , 2007, 13, 1354-1357.   | 4.3  | 65        |
| 31 | Reduced Sensitivity of Influenza A (H5N1) to Oseltamivir. <i>Emerging Infectious Diseases</i> , 2007, 13, 1354-1357.   | 4.3  | 108       |
| 32 | Detection of Influenza Viruses Resistant to Neuraminidase Inhibitors in Global Surveillance during the First 3 Years of Their Use. <i>Antimicrobial Agents and Chemotherapy</i> , 2006, 50, 2395-2402.   | 3.2  | 333       |
| 33 | Structure of a calcium-deficient form of influenza virus neuraminidase: implications for substrate binding. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2006, 62, 947-952.   | 2.5  | 36        |
| 34 | Mutations conferring zanamivir resistance in human influenza virus N2 neuraminidases compromise virus fitness and are not stably maintained in vitro. <i>Journal of Antimicrobial Chemotherapy</i> , 2006, 58, 723-732.                                  | 3.0  | 94        |
| 35 | Neuraminidase Inhibitor-Resistant and -Sensitive Influenza B Viruses Isolated from an Untreated Human Patient. <i>Antimicrobial Agents and Chemotherapy</i> , 2006, 50, 1872-1874.   | 3.2  | 66        |
| 36 | Dimeric Zanamivir Conjugates with Various Linking Groups Are Potent, Long-Lasting Inhibitors of Influenza Neuraminidase Including H5N1 Avian Influenza. <i>Journal of Medicinal Chemistry</i> , 2005, 48, 2964-2971.                                     | 6.4  | 82        |

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|----|--|------|-----------|
| 37 | Management of Influenza Virus Infections with Neuraminidase Inhibitors. <i>Treatments in Respiratory Medicine</i> , 2005, 4, 107-116.  | 1.4  | 62        |
| 38 | A simplified plaque assay for respiratory syncytial virus—direct visualization of plaques without immunostaining. <i>Journal of Virological Methods</i> , 2004, 120, 113-117.  | 2.1  | 96        |
| 39 | Inhibition of Parainfluenza Virus Type 3 and Newcastle Disease Virus Hemagglutinin-Neuraminidase Receptor Binding: Effect of Receptor Avidity and Steric Hindrance at the Inhibitor Binding Sites. <i>Journal of Virology</i> , 2004, 78, 13911-13919. | 3.4  | 51        |
| 40 | Identification of a human influenza type B strain with reduced sensitivity to neuraminidase inhibitor drugs. <i>Virus Research</i> , 2004, 103, 205-211.   | 2.2  | 26        |
| 41 | Structure of the Haemagglutinin-neuraminidase from Human Parainfluenza Virus Type III. <i>Journal of Molecular Biology</i> , 2004, 335, 1343-1357.   | 4.2  | 200       |
| 42 | Tethered Neuraminidase Inhibitors That Bind an Influenza Virus: A First Step Towards a Diagnostic Method for Influenza. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 3118-3121.  | 13.8 | 22        |
| 43 | Neuraminidase inhibitors for the treatment and prevention of influenza. <i>Expert Opinion on Pharmacotherapy</i> , 2002, 3, 103-112.   | 1.8  | 37        |
| 44 | Mechanisms of resistance of influenza virus to neuraminidase inhibitors. <i>International Congress Series</i> , 2001, 1219, 855-861.   | 0.2  | 6         |
| 45 | Antiviral Activity and Structural Characteristics of the Nonglycosylated Central Subdomain of Human Respiratory Syncytial Virus Attachment (G) Glycoprotein. <i>Journal of Biological Chemistry</i> , 2001, 276, 38988-38994.                          | 3.4  | 22        |
| 46 | Biochemical Methods for the Characterization of Influenza Viruses with Reduced Sensitivity to 4-Guanidino-Neu5Ac2en. , 2000, 24, 367-374.  |      | 4         |
| 47 | Virological Methods for the Generation and Characterization of Influenza Viruses with Reduced Sensitivity to 4-Guanidino-Neu5Ac2en. , 2000, 24, 375-382.   |      | 3         |
| 48 | The Interaction of Neuraminidase and Hemagglutinin Mutations in Influenza Virus in Resistance to 4-Guanidino-Neu5Ac2en. <i>Virology</i> , 1998, 246, 95-103.   | 2.4  | 101       |
| 49 | Substrate, Inhibitor, or Antibody Stabilizes the Glu 119 Gly Mutant Influenza Virus Neuraminidase. <i>Virology</i> , 1998, 247, 14-21.   | 2.4  | 15        |
| 50 | Drug design against a shifting target: a structural basis for resistance to inhibitors in a variant of influenza virus neuraminidase. <i>Structure</i> , 1998, 6, 735-746.   | 3.3  | 210       |
| 51 | Mutations in a Conserved Residue in the Influenza Virus Neuraminidase Active Site Decreases Sensitivity to Neu5Ac2en-Derived Inhibitors. <i>Journal of Virology</i> , 1998, 72, 2456-2462.   | 3.4  | 175       |
| 52 | Use of oligonucleotide probes for selecting potential high-yielding influenza reassortants. <i>Journal of Virological Methods</i> , 1997, 68, 139-145.   | 2.1  | 2         |
| 53 | Changes in the NS gene of neurovirulent strains of influenza affect splicing. <i>Virus Genes</i> , 1995, 10, 91-94.  | 1.6  | 7         |
| 54 | Generation and Characterization of an Influenza Virus Neuraminidase Variant with Decreased Sensitivity to the Neuraminidase-Specific Inhibitor 4-Guanidino-Neu5Ac2en. <i>Virology</i> , 1995, 214, 475-484.  | 2.4  | 155       |

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|----|--|------|-----------|
| 55 | The structure of a complex between the NC10 antibody and influenza virus neuraminidase and comparison with the overlapping binding site of the NC41 antibody. <i>Structure</i> , 1994, 2, 733-746. | 3.3  | 157       |
| 56 | Complete nucleotide sequence of the non-structural gene of the human influenza virus strain A/WS/33. <i>Nucleic Acids Research</i> , 1993, 21, 2257-2257.  | 14.5 | 4         |
| 57 | Rapid treatment of whole cells and RNA viruses for analysis of RNA by slot blot hybridization. <i>Virus Research</i> , 1992, 22, 199-206.  | 2.2  | 2         |
| 58 | Expression of influenza neuraminidase in baculovirus-infected cells. <i>Virus Research</i> , 1992, 26, 127-139.  | 2.2  | 14        |
| 59 | The structure of the complex between influenza virus neuraminidase and sialic acid, the viral receptor. <i>Proteins: Structure, Function and Bioinformatics</i> , 1992, 14, 327-332.               | 2.6  | 399       |
| 60 | The use of tetramethylbenzidine for solid phase immunoassays. <i>Journal of Immunological Methods</i> , 1990, 135, 277-280.  | 1.4  | 67        |
| 61 | P Cell Stimulating Factor Release: A Useful Assay of T Cell Activation in vitro. <i>International Archives of Allergy and Immunology</i> , 1986, 79, 169-177.                                      | 2.1  | 10        |
| 62 | Pertussigen enhances antigen-driven interferon- $\gamma$ production by sensitized lymphoid cells. <i>Cellular Immunology</i> , 1986, 97, 238-247.  | 3.0  | 25        |
| 63 | Preparation of T cell growth factor free from interferon and factors stimulating hemopoietic cells and mast cells. <i>Journal of Immunological Methods</i> , 1982, 51, 311-322.                    | 1.4  | 13        |
| 64 | Interferon Induction by Measles Virus. <i>Intervirology</i> , 1981, 16, 250-259.   | 2.8  | 2         |