# Donald L Jarvis

List of Publications by Year
in descending order

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| 110 | 6,100 | 81900<br>39 | 76900<br>74 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 113 | 113 | 113 | 4908 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Development of an orally-administrable tumor vasculature-targeting therapeutic using annexin A1-binding D-peptides. PLoS ONE, 2021, 16, e0241157. | 2.5 | 5 |
| 2 | A New Bacmid for Customized Protein Glycosylation Pathway Engineering in the Baculovirus-Insect Cell System. ACS Chemical Biology, 2021, 16, 1941-1950. | 3.4 | 5 |
| 3 | A new insect cell line engineered to produce recombinant glycoproteins with cleavable N-glycans. Journal of Biological Chemistry, 2021, , 101454. | 3.4 | 1 |
| 4 | Title is missing!. , 2021, 16, e0241157. | | 0 |
| 5 | Title is missing!. , 2021, 16, e0241157. | | 0 |
| 6 | Title is missing!. , 2021, 16, e0241157. | | 0 |
| 7 | Title is missing!. , 2021, 16, e0241157. | | 0 |
| 8 | Title is missing!. , 2021, 16, e0241157. | | 0 |
| 9 | Title is missing!. , 2021, 16, e0241157. | | 0 |
| 10 | A new nodavirusâ€negative Trichoplusia ni cell line for baculovirusâ€mediated protein production. Biotechnology and Bioengineering, 2020, 117, 3248-3264. | 3.3 | 6 |
| 11 | Overcoming the bloodâ€“brain barrier by Annexin A1-binding peptide to target brain tumours. British Journal of Cancer, 2020, 123, 1633-1643. | 6.4 | 11 |
| 12 | Expression system for structural and functional studies of human glycosylation enzymes. Nature Chemical Biology, 2018, 14, 156-162. | 8.0 | 182 |
| 13 | Adventitious viruses in insect cell lines used for recombinant protein expression. Protein Expression and Purification, 2018, 144, 25-32. | 1.3 | 21 |
| 14 | Infectivity of Sf-rhabdovirus variants in insect and mammalian cell lines. Virology, 2017, 512, 234-245. | 2.4 | 11 |
| 15 | CRISPR-Cas9 vectors for genome editing and host engineering in the baculovirusâ€“insect cell system. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 9068-9073. | 7.1 | 49 |
| 16 | Rhabdovirus-like endogenous viral elements in the genome of Spodoptera frugiperda insect cells are actively transcribed: Implications for adventitious virus detection. Biologicals, 2016, 44, 219-225. | 1.4 | 34 |
| 17 | Characterization of an Sf-rhabdovirus-negative Spodoptera frugiperda cell line as an alternative host for recombinant protein production in the baculovirus-insect cell system. Protein Expression and Purification, 2016, 122, 45-55. | 1.3 | 26 |
| 18 | Venezuelan and western equine encephalitis virus E1 liposome antigen nucleic acid complexes protect mice from lethal challenge with multiple alphaviruses. Virology, 2016, 499, 30-39. | 2.4 | 14 |

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|---|---|---|---|
| 19 | Mucin-type O-glycosylation is controlled by short- and long-range glycopeptide substrate recognition that varies among members of the polypeptide GalNAc transferase family. Glycobiology, 2016, 26, 360-376. | 2.5 | 73 |
| 20 | Transforming Lepidopteran Insect Cells for Continuous Recombinant Protein Expression. Methods in Molecular Biology, 2016, 1350, 329-348. | 0.9 | 11 |
| 21 | Transforming Lepidopteran Insect Cells for Improved Protein Processing and Expression. Methods in Molecular Biology, 2016, 1350, 359-379. | 0.9 | 6 |
| 22 | Modifying an Insect CellN-Glycan Processing Pathway Using CRISPR-Cas Technology. ACS Chemical Biology, 2015, 10, 2199-2208. | 3.4 | 35 |
| 23 | Targeted glycoengineering extends the protein N-glycosylation pathway in the silkworm silk gland. Insect Biochemistry and Molecular Biology, 2015, 65, 20-27. | 2.7 | 25 |
| 24 | Identification and Biochemical Characterization of the Novel Î±2,3-Sialyltransferase WbwA from Pathogenic Escherichia coli Serotype O104. Journal of Bacteriology, 2015, 197, 3760-3768. | 2.2 | 17 |
| 25 | Engineering Î²1,4-galactosyltransferase I to reduce secretion and enhance N-glycan elongation in insect cells. Journal of Biotechnology, 2015, 193, 52-65. | 3.8 | 16 |
| 26 | An Overview and History of Glyco-Engineering in Insect Expression Systems. Methods in Molecular Biology, 2015, 1321, 131-152. | 0.9 | 42 |
| 27 | Recombinant Protein Expression in Baculovirus-Infected Insect Cells. Methods in Enzymology, 2014, 536, 149-163. | 1.0 | 17 |
| 28 | Complete Genome Sequence of the Autographa californica Multiple Nucleopolyhedrovirus Strain E2. Genome Announcements, 2014, 2, . | 0.8 | 13 |
| 29 | Liposome-Antigen-Nucleic Acid Complexes Protect Mice from Lethal Challenge with Western and Eastern Equine Encephalitis Viruses. Journal of Virology, 2014, 88, 1771-1780. | 3.4 | 18 |
| 30 | Facile removal of high mannose structures prior to extracting complex type Nâ€glycans from deâ€Nâ€glycosylated peptides retained by C18 solid phase to allow more efficient glycomic mapping. Proteomics, 2014, 14, 87-92. | 2.2 | 8 |
| 31 | A novel baculovirus vector for the production of nonfucosylated recombinant glycoproteins in insect cells. Glycobiology, 2014, 24, 325-340. | 2.5 | 39 |
| 32 | A new insect cell glycoengineering approach provides baculovirus-inducible glycogene expression and increases human-type glycosylation efficiency. Journal of Biotechnology, 2014, 182-183, 19-29. | 3.8 | 32 |
| 33 | Impact of a human CMP-sialic acid transporter on recombinant glycoprotein sialylation in glycoengineered insect cells. Glycobiology, 2013, 23, 199-210. | 2.5 | 30 |
| 34 | Acceptor specificities and selective inhibition of recombinant human Gal- and GlcNAc-transferases that synthesize core structures 1, 2, 3 and 4 of O-glycans. Biochimica Et Biophysica Acta - General Subjects, 2013, 1830, 4274-4281. | 2.4 | 14 |
| 35 | Utility of temporally distinct baculovirus promoters for constitutive and baculovirus-inducible transgene expression in transformed insect cells. Journal of Biotechnology, 2013, 165, 11-17. | 3.8 | 22 |
| 36 | Expression and purification of Suid Herpesvirus-1 glycoprotein E in the baculovirus system and its use to diagnose Aujeszkyâ€™s disease in infected pigs. Protein Expression and Purification, 2013, 90, 1-8. | 1.3 | 8 |

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|---|---|---|---|
| 37 | Comparative Glycomics Analysis of Influenza Hemagglutinin (H5N1) Produced in Vaccine Relevant Cell Platforms. Journal of Proteome Research, 2013, 12, 3707-3720. | 3.7 | 60 |
| 38 | The Lectin Domain of the Polypeptide GalNAc Transferase Family of Glycosyltransferases (ppGalNAc Ts) Acts as a Switch Directing Glycopeptide Substrate Glycosylation in an N- or C-terminal Direction, Further Controlling Mucin Type O-Glycosylation. Journal of Biological Chemistry, 2013, 288, 19900-19914. | 3.4 | 67 |
| 39 | Bioluminescent Imaging and Histopathologic Characterization of WEEV Neuroinvasion in Outbred CD-1 Mice. PLoS ONE, 2013, 8, e53462. | 2.5 | 72 |
| 40 | Silkworms transformed with chimeric silkworm/spider silk genes spin composite silk fibers with improved mechanical properties. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 923-928. | 7.1 | 241 |
| 41 | Substrate Specificities and Intracellular Distributions of Three N-glycan Processing Enzymes Functioning at a Key Branch Point in the Insect N-Glycosylation Pathway. Journal of Biological Chemistry, 2012, 287, 7084-7097. | 3.4 | 34 |
| 42 | The Drosophila Neurally Altered Carbohydrate Mutant Has a Defective Golgi GDP-fucose Transporter. Journal of Biological Chemistry, 2012, 287, 29599-29609. | 3.4 | 12 |
| 43 | A new glycoengineered insect cell line with an inducibly mammalianized protein N-glycosylation pathway. Glycobiology, 2012, 22, 417-428. | 2.5 | 67 |
| 44 | Innovative use of a bacterial enzyme involved in sialic acid degradation to initiate sialic acid biosynthesis in glycoengineered insect cells. Metabolic Engineering, 2012, 14, 642-652. | 7.0 | 22 |
| 45 | Factors affecting recombinant Western equine encephalitis virus glycoprotein production in the baculovirus system. Protein Expression and Purification, 2011, 80, 274-282. | 1.3 | 19 |
| 46 | Letter to the Glyco-Forum: Effective glycoanalysis with Maackia amurensis lectins requires a clear understanding of their binding specificities. Glycobiology, 2011, 21, 988-993. | 2.5 | 202 |
| 47 | Identification of genes encoding <i>N</i>â€glycan processing Î²â€‹<i>N</i>â€acetylglucosaminidases in <i>Trichoplusia ni</i> and <i>Bombyx mori</i>: Implications for glycoengineering of baculovirus expression systems. Biotechnology Progress, 2010, 26, 34-44. | 2.6 | 21 |
| 48 | Re-visiting the endogenous capacity for recombinant glycoprotein sialylation by baculovirus-infected Tn-4h and DpN1 cells. Glycobiology, 2010, 20, 1323-1330. | 2.5 | 13 |
| 49 | Identification, expression and characterisation of a major salivary allergen (Cul s 1) of the biting midge Culicoides sonorensis relevant for summer eczema in horses. International Journal for Parasitology, 2009, 39, 243-250. | 3.1 | 36 |
| 50 | Chapter 14 Baculovirusâ€“Insect Cell Expression Systems. Methods in Enzymology, 2009, 463, 191-222. | 1.0 | 176 |
| 51 | A fused lobes Gene Encodes the Processing Î²-N-Acetylglucosaminidase in Sf9 Cells*. Journal of Biological Chemistry, 2008, 283, 11330-11339. | 3.4 | 68 |
| 52 | Protein N-Glycosylation in the Baculovirus-Insect Cell System. Current Drug Targets, 2007, 8, 1116-1125. | 2.1 | 161 |
| 53 | Construction and characterization of new piggyBac vectors for constitutive or inducible expression of heterologous gene pairs and the identification of a previously unrecognized activator sequence in piggyBac. BMC Biotechnology, 2007, 7, 5. | 3.3 | 39 |
| 54 | Transforming Lepidopteran Insect Cells for Continuous Recombinant Protein Expression. Methods in Molecular Biology, 2007, 388, 299-315. | 0.9 | 23 |

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|---|---|---|---|
| 55 | Transforming Lepidopteran Insect Cells for Improved Protein Processing. Methods in Molecular Biology, 2007, 388, 341-356. | 0.9 | 23 |
| 56 | Molecular cloning and functional characterization of Î²-N-acetylglucosaminidase genes from Sf9 cells. Protein Expression and Purification, 2006, 47, 571-590. | 1.3 | 35 |
| 57 | Protein Nâ€Glycosylation in the Baculovirusâ€"Insect Cell Expression System and Engineering of Insect Cells to Produce â€œMammalianizedâ€•Recombinant Glycoproteins. Advances in Virus Research, 2006, 68, 159-191. | 2.1 | 170 |
| 58 | A new rapid amplification of cDNA ends method for extremely guanine plus cytosine-rich genes. Analytical Biochemistry, 2006, 356, 222-228. | 2.4 | 30 |
| 59 | Isolation and analysis of a baculovirus vector that supports recombinant glycoprotein sialylation by SfSWT-1 cells cultured in serum-free medium. Biotechnology and Bioengineering, 2006, 95, 37-47. | 3.3 | 23 |
| 60 | Baculovirus as versatile vectors for protein expression in insect and mammalian cells. Nature Biotechnology, 2005, 23, 567-575. | 17.5 | 867 |
| 61 | Molecular Cloning and Functional Characterization of a Lepidopteran Insect Î²4-N-Acetylgalactosaminyltransferase with Broad Substrate Specificity, a Functional Role in Glycoprotein Biosynthesis, and a Potential Functional Role in Glycolipid Biosynthesis. Journal of Biological Chemistry, 2004, 279, 33501-33518. | 3.4 | 44 |
| 62 | Effect of Expression of Manganese Superoxide Dismutase in Baculovirus-Infected Insect Cells. Applied Biochemistry and Biotechnology, 2004, 119, 181-194. | 2.9 | 13 |
| 63 | Autographa californica M nucleopolyhedrovirus early GP64 synthesis mitigates developmental resistance in orally infected noctuid hosts. Journal of General Virology, 2004, 85, 833-842. | 2.9 | 17 |
| 64 | Developing baculovirus-insect cell expression systems for humanized recombinant glycoprotein production. Virology, 2003, 310, 1-7. | 2.4 | 166 |
| 65 | Effect of signal sequence and promoter on the speed of action of a genetically modified Autographa californica nucleopolyhedrovirus expressing the scorpion toxin LqhIT2. Biological Control, 2003, 27, 53-64. | 3.0 | 24 |
| 66 | Complex-type biantennary N-glycans of recombinant human transferrin from Trichoplusia ni insect cells expressing mammalian beta-1,4-galactosyltransferase and beta-1,2-N-acetylglucosaminyltransferase II. Glycobiology, 2003, 13, 23-34. | 2.5 | 41 |
| 67 | Evidence for a sialic acid salvaging pathway in lepidopteran insect cells. Glycobiology, 2003, 13, 487-495. | 2.5 | 42 |
| 68 | A transgenic insect cell line engineered to produce CMP-sialic acid and sialylated glycoproteins. Glycobiology, 2003, 13, 497-507. | 2.5 | 87 |
| 69 | Early Synthesis of Budded Virus Envelope Fusion Protein GP64 Enhances Autographa californica Multicapsid Nucleopolyhedrovirus Virulence in Orally Infected Heliothis virescens. Journal of Virology, 2003, 77, 280-290. | 3.4 | 56 |
| 70 | Identification and characterization of a Drosophila melanogaster ortholog of human Â1,4-galactosyltransferase VII. Glycobiology, 2002, 12, 589-597. | 2.5 | 45 |
| 71 | Biosynthesis and processing of Spodoptera frugiperdaÂ-mannosidase III. Glycobiology, 2002, 12, 369-377. | 2.5 | 15 |
| 72 | Engineering the Protein N-Glycosylation Pathway in Insect Cells for Production of Biantennary, Complex N-Glycansâ€. Biochemistry, 2002, 41, 15093-15104. | 2.5 | 140 |

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|---|---|---|---|
| 73 | Expression and functional characterization of a nucleotide sugar transporter from Drosophila melanogaster: relevance to protein glycosylation in insect cell expression systems. Protein Expression and Purification, 2002, 26, 438-448. | 1.3 | 26 |
| 74 | Î²-(1â†’4)-Galactosyltransferase activity in native and engineered insect cells measured with time-resolved europium fluorescence. Carbohydrate Research, 2002, 337, 2181-2186. | 2.3 | 26 |
| 75 | Mammalian Glycosyltransferase Expression Allows Sialoglycoprotein Production by Baculovirus-Infected Insect Cells. Protein Expression and Purification, 2001, 22, 234-241. | 1.3 | 47 |
| 76 | Biosynthesis and subcellular localization of a lepidopteran insect alpha 1,2-mannosidase. Insect Biochemistry and Molecular Biology, 2001, 31, 289-297. | 2.7 | 27 |
| 77 | Improved glycosylation of a foreign protein by Tn-5B1-4 cells engineered to express mammalian glycosyltransferases. Biotechnology and Bioengineering, 2001, 74, 230-239. | 3.3 | 74 |
| 78 | Glycoproteins from Insect Cells: Sialylated or Not?. Biological Chemistry, 2001, 382, 151-9. | 2.5 | 159 |
| 79 | Insect Cells Encode a Class II Î±-Mannosidase with Unique Properties. Journal of Biological Chemistry, 2001, 276, 16335-16340. | 3.4 | 41 |
| 80 | Novel Baculovirus Expression Vectors That Provide Sialylation of Recombinant Glycoproteins in Lepidopteran Insect Cells. Journal of Virology, 2001, 75, 6223-6227. | 3.4 | 49 |
| 81 | N-glycan patterns of human transferrin produced in Trichoplusia ni insect cells: effects of mammalian galactosyltransferase. Glycobiology, 2000, 10, 837-847. | 2.5 | 83 |
| 82 | N-Glycan processing by a lepidopteran insect Â1,2-mannosidase. Glycobiology, 2000, 10, 347-355. | 2.5 | 36 |
| 83 | Electrophoretic analysis of glycoprotein glycans produced by lepidopteran insect cells infected with an immediate early recombinant baculovirus encoding mammalian beta1,4-galactosyltransferase. Glycoconjugate Journal, 1999, 16, 753-756. | 2.7 | 12 |
| 84 | Engineering N-glycosylation pathways in the baculovirus-insect cell system. Current Opinion in Biotechnology, 1998, 9, 528-533. | 6.6 | 100 |
| 85 | Stable expression of mammalian beta 1,4-galactosyltransferase extends the N-glycosylation pathway in insect cells. Glycobiology, 1998, 8, 473-480. | 2.5 | 120 |
| 86 | Mutational Analysis of the N-Linked Glycans on<i>Autographa californica</i>Nucleopolyhedrovirus gp64. Journal of Virology, 1998, 72, 9459-9469. | 3.4 | 29 |
| 87 | Isolation and characterization of a class II Î±-mannosidase cDNA from lepidopteran insect cells. Glycobiology, 1997, 7, 113-127. | 2.5 | 46 |
| 88 | Isolation and characterization of an Î±1,2-mannosidase cDNA from the lepidopteran insect cell line Sf9. Glycobiology, 1997, 7, 433-443. | 2.5 | 42 |
| 89 | Baculovirus Expression Vectors. , 1997, , 389-431. | | 48 |
| 90 | Immediate-Early Baculovirus Vectors for Foreign Gene Expression in Transformed or Infected Insect Cells. Protein Expression and Purification, 1996, 8, 191-203. | 1.3 | 132 |

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| 91 | Construction and Characterization of Immediate Early Baculovirus Pesticides. Biological Control, 1996, 7, 228-235. | 3.0 | 26 |
| 92 | Mapping Functional Domains in AcMNPV pp31. Virology, 1996, 222, 318-331. | 2.4 | 9 |
| 93 | The Role of the AcMNPV25KGene, â€œFP25,â€•in Baculoviruspolhandp10Expression. Virology, 1996, 226, 34-46. | 2.4 | 46 |
| 94 | Modifying the insect cell N-glycosylation pathway with immediate early baculovirus expression vectors. Nature Biotechnology, 1996, 14, 1288-1292. | 17.5 | 132 |
| 95 | Continuous Foreign Gene Expression in Transformed Lepidopteran Insect Cells. , 1995, 39, 187-202. | | 17 |
| 96 | Biochemical Analysis of the N-Glycosylation Pathway in Baculovirus-Infected Lepidopteran Insect Cells. Virology, 1995, 212, 500-511. | 2.4 | 140 |
| 97 | Biosynthesis and Processing of the Autographa californica Nuclear Polyhedrosis Virus gp64 Protein. Virology, 1994, 205, 300-313. | 2.4 | 91 |
| 98 | Heterologous protein expression affects the death kinetics of baculovirus-infected insect cell cultures: A quantitative study by use of n-target theory. Biotechnology Progress, 1994, 10, 55-59. | 2.6 | 14 |
| 99 | Insect cell hosts for baculovirus expression vectors contain endogenous exoglycosidase activity. Biotechnology Progress, 1993, 9, 146-152. | 2.6 | 60 |
| 100 | Baculovirus Expression Vectors.. Annals of the New York Academy of Sciences, 1991, 646, 240-247. | 3.8 | 24 |
| 101 | Requirements for nuclear localization and supramolecular assembly of a baculovirus polyhedrin protein. Virology, 1991, 185, 795-810. | 2.4 | 103 |
| 102 | Use of Early Baculovirus Promoters for Continuous Expression and Efficient Processing of Foreign Gene Products in Stably Transformed Lepidopteran Cells. Nature Biotechnology, 1990, 8, 950-955. | 17.5 | 165 |
| 103 | Role of glycosylation in the transport of recombinant glycoproteins through the secretory pathway of lepidopteran insect cells. Journal of Cellular Biochemistry, 1990, 42, 181-191. | 2.6 | 58 |
| 104 | SV40 T-Antigen as a Dual Oncogene: Structure and Function of the Plasma Membrane-Associated Population. Annals of the New York Academy of Sciences, 1989, 567, 104-121. | 3.8 | 16 |
| 105 | The plasma-membrane-associated form of SV40 large tumor antigen: biochemical and biological properties. Biochimica Et Biophysica Acta: Reviews on Cancer, 1986, 865, 171-195. | 7.4 | 49 |
| 106 | Modification of simian virus 40 large tumor antigen by glycosylation. Virology, 1985, 141, 173-189. | 2.4 | 47 |
| 107 | Structural comparisons of wild-type and nuclear transport-defective simian virus 40 large tumor antigens. Virology, 1984, 134, 168-176. | 2.4 | 32 |
| 108 | Modification of the poliovirus capsid by ultraviolet light. Canadian Journal of Microbiology, 1981, 27, 1185-1193. | 1.7 | 12 |

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| 109 | Transforming Lepidopteran Insect Cells for Continuous Recombinant Protein Expression. , 0, , 299-316. | | 0 |
| 110 | Transforming Lepidopteran Insect Cells for Improved Protein Processing. , 0, , 341-356. | | 0 |