

Selected Publications

1. [Lange, M.J., Sharma, T.K., Whatley, A.S., Landon, L.A., Tempesta, M.A., Johnson, M.C., and Burke, D.H.](#) 2012. Robust suppression of HIV replication by intracellularly expressed RNA aptamers to reverse transcriptase is independent of ribozyme processing. *Mol Ther.* 2012 Sep 4. doi: 10.1038/mt.2012.158. [Epub ahead of print]
2. [Ndongwe, T.P., Adedeji, A.O., Michailidis, E., Ong, Y.T., Hachiya, A., Marchand, B., Ryan, E.M., Rai, D.K., Kirby, K.A., Whatley, A.S., Burke, D.H., Johnson, M.C., Ding, S., Zheng, Y-M., Liu, S-L., Kodama, E-I., Delviks-Frankenberry, K.A., Pathak, V.K., Mitsuya, H., Parniak, M.A., Singh, K., and Sarafianos, S.G.](#) 2012. Biochemical, Inhibition, and Resistance Studies of Xenotropic Murine Leukemia Virus-Related Virus Reverse Transcriptase. *Nucleic Acids Res.* 40:345-359 (accepted August 2011). **Supplemental.**
3. [Baluyot, M.F., Grosse, S.A., Lyddon T.D., Janaka, S.K., and Johnson, M.C.](#) 2012. CRM1-dependent trafficking of retroviral Gag proteins revisited. *J. Virology.* 2012 Apr;86(8):4696-700. Epub 2012 Feb 8.
4. [Janaka, S.K., Lucas, T.M., and Johnson, M.C.](#) 2011. Sequences in gibbon ape leukemia virus envelope that confer sensitivity to HIV-1 accessory protein Vpu. *J Virology* 85(22):11945.
5. [Zhang, F., Zang, T., Wilson, S.J., Johnson, M.C., and Bieniasz, P.D.](#) 2011. Clathrin facilitates the morphogenesis of retrovirus particles. *PLoS Pathog.* 7(6):e1002119. Epub 2011 Jun 30.
6. [Johnson, M.C.](#) 2011. Mechanisms for Env Glycoprotein Acquisition by Retroviruses. (Review) *AIDS Research and Human Retroviruses* 27(3):239-47. Epub 2011 Feb 22.
7. [Lucas, T., Lyddon, T. D., Gross, S.A., and Johnson, M.C.](#) 2010. Two distinct mechanisms regulate recruitment of murine leukemia virus envelope protein to retroviral assembly sites. *Virology* 405(2):548-55. Epub 2010 Jul 23.
8. [Dilley K.A., Gregory D.A., Johnson M.C., and Vogt, V.M.](#) 2010. An LYPSL late domain in the Gag protein contributes to the efficient release of Rous sarcoma virus. *J of Virology* 84(13):6276-87. Epub 2010 Apr 14.
9. [Lucas T.M., Lyddon T.D., Cannon P.M., and Johnson M.C.](#) 2010. The pseudotyping incompatibility between HIV-1 and GaLV Env is modulated by Vpu. *J Virology* 84(6):2666-74. Epub 2009 Dec 30.
10. [Perez-Caballero D., Zang T., Ebrahimi A., McNatt M.W., Gregory D.A., Johnson M.C., and Bieniasz P.D.](#) 2009. Tetherin inhibits HIV-1 release by directly tethering virions to cells. *Cell* 139(3):499-511.
11. [Zhang F., Wilson S.J., Landford W.C., Virgen B., Gregory D., Johnson M.C., Munch J., Kirchhoff F., Bieniasz P.D., and Hatzioannou T.](#) 2009. Nef Proteins from Simian Immunodeficiency Viruses Are Tetherin Antagonists. *Cell Host Microbe* 6(1):54-67. Epub 2009 Jun 4.
12. [Jorgenson, R.L., Vogt, V.M. and Johnson, M.C.](#) 2009. Foreign glycoproteins are robustly recruited to virus assembly sites during pseudotyping. *J Virology* 83(9):4060-7. Epub 2009 Feb 18.
13. [Carlson L.A., Briggs J.A., Glass B., Riches J.D., Simon M.N., Johnson M.C., Müller B., Grünewald K., and Kräusslich H.G.](#) 2008. Three-dimensional analysis of budding sites

and released virus suggests a revised model for HIV-1 morphogenesis. *Cell Host Microbe* 4(6):592-9.

14. [Keller, P.W., Johnson, M.C., and Vogt, V.M.](#) 2008. Mutations in SP and adjoining sequences in Rous sarcoma virus Gag lead to tubular budding. *J Virology* 82(14):6788-97. Epub 2009 Feb 18.
15. [Van Damme, N., Goff, D., Katsura, C., Jorgenson, R.L., Mitchell, R., Johnson, M.C., Stephens, E.B., and Guatelli, J.](#) 2008. The interferon-induced protein BST-2/CD317 restricts release of virions from infected cells and is down-regulated from the cell surface by HIV-1 Vpu. *Cell Host Microbe* 3(4):245-52. Epub 2008 Mar 13.
16. [Capkovic, K.L., Stevenson, S., Johnson, M.C., Thelen, J.J., and Cornelison, D.D.](#) 2008. Neural cell adhesion molecule (NCAM) marks adult myogenic cells committed to differentiation. *Exp Cell Res* 314(7):1553-65. Epub 2008 Feb 9.
17. [Zhadina, M., McClure, M.O., Johnson, M. C., and Bieniasz, P. D.](#) 2007. Ubiquitin-dependent virus particle budding without viral protein ubiquitination. *PNAS* 104(50):20031-6. Epub 2007 Dec 3.
18. [Bouamr, F., Houck-Loomis, B.R., De Los Santos, M., Casaday, R.J., Johnson, M.C., and Goff, S.P.](#) 2007. The C-terminal portion of HRS interacts with TSG101 and interferes with HIV-1 Gag particle production. *J Virology* 81(6):2909-22. Epub 2006 Dec 20.
19. [Jouvenet N., Neil S.J.D., Bess, C., Johnson, M.C., Virgen, C.A., Simon, S.M., and Bieniasz, P.D.](#) 2006. Plasma Membrane is the Site of Productive HIV-1 Particle Assembly. *PLoS Biology* 4(12):e435.
20. [Briggs, J.A.G., Johnson M.C., Simon, M.N., Fuller, S.D., Vogt, V.M.](#) 2004. Cryo-electron microscopy reveals conserved and divergent features of Gag packing in immature particles of Rous sarcoma virus and human immunodeficiency virus. *J Molecular Biology* 355(1):157-68. Epub 2005 Nov 2.
21. [Larson, D.R., Johnson, M.C. \[co-author\], Webb, W.W., and Vogt, V.M.](#) 2005. Visualization of Retrovirus Budding with Correlated Light and Electron Microscopy. *Proc Natl Acad Sci U S A.* 102(43):15453-8. Epub 2005 Oct 17.
22. [Ako-Adjei D., Johnson, M.C., and Vogt, V. M.](#) 2005. The retroviral CA domain dictates virion size, morphology and the co-assembly of Gag into virus-like particles *Journal of Virology* *J Virology*. 2005 Nov;79(21):13463-72.
23. [Johnson, M.C., Spidel J.L., Ako-Adjei D., Wills, J.W. and Vogt, V. M.](#) (2005) The C-terminal half of TSG101 blocks Rous sarcoma virus budding and sequesters Gag into unique non-endosomal structures. *J Virology* 79:3775.
24. [Briggs, J. A. G., Simon, M., Gross, I., Kräusslich, H-G., Fuller, S. D., Vogt, V. M., and Johnson, M. C. \[corresponding author\]](#) 2004. The stoichiometry of Gag protein in HIV-1. *Nature Structural and Molecular Biology* 11:672.
25. [Alonso M., Kim C. H., Johnson M. C., Pressley M., and Leong J. A.](#) 2004. The NV Gene of Snakehead Rhabdovirus (SHRV) Is Not Required for Pathogenesis, and a Heterologous Glycoprotein Can Be Incorporated into the SHRV Envelope. *J Virology* 78:5875.
26. [Nandhagopal, N., Simpson, A. A., Johnson, M. C., Francisco, A. B., Schatz, G. W., Rossmann, M. G., and Vogt, V. M.](#) 2004. Dimeric Rous Sarcoma Virus Capsid Protein Structure Relevant to Immature Gag. *J Molecular Biology* 335:275.
27. [Altmann, S. M., Mellon, M. T., Johnson, M. C., Paw, B. H., Trede, N. S., Zon L.I., and Kim.C.H.](#) 2004. Cloning And Characterization of an Mx Gene and its Corresponding

- Promoter from the Zebrafish, *Danio rerio*. *Developmental and Comparative Immunology* 28:295.
28. [Alonso, M., Johnson, M. C., Simon, B., and Leong, J.A.](#) 2003. A Fish Specific Expression Vector Containing the Interferon Regulatory Factor 1A (IRF1A) Promoter for Genetic Immunization of Fish. *Vaccine* 21:1591-600.
 29. [Johnson, M. C., Scobie, H. M., Ma, Y. M. and Vogt, V. M.](#) 2002. Nucleic acid-independent retrovirus assembly can be driven by dimerization. *J Virology* 76; 11177-85.
 30. [Johnson, M. C., Scobie, H. M., and Vogt, V. M.](#) 2001. The PR domain of Rous Sarcoma Virus (RSV) Gag Causes an Assembly/Budding Defect in Insect Cells. *J Virology* 75:4407-4412.
 31. [Mangor, J. T., Monsma, S. A., Johnson, M. C., and Blissard, G.W.](#) 2001. A GP64null Baculovirus Pseudotyped with the Vesicular Stomatitis Virus G Protein. *J Virology* 75:2544-2556.
 32. [Kim C. H., Johnson, M. C., Drennan J. D., Simon, B. E., Thomann, E. and Leong J. C.](#) 2000. DNA Vaccines Encoding Viral Glycoproteins Induce Non-specific Immunity and Mx Protein Synthesis in Fish. *Journal of Virology* 74:7048-7054.
 33. Leong, J. C., Crippen, T., Drennan, J., Johnson, M. C., Jordan, D., Kim, C., Simon, B., and Thomann, E. 2000. Development of DNA Vaccines for Fish. *Suisanzoshoku* 48:285-290.
 34. [Johnson, M.C. and Leong, J.C.](#) 2000. Generation of Recombinant Snakehead Rhabdovirus (SHRV); the NV Protein is not Required for Viral Replication. *J Virology* 74:2343-2350.