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 reversetranscriptase 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 incompatibilitybetween 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 Hatziioannou 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.
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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.
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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.
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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.