

Glen N. Barber, Ph.D.
CURRICULUM VITAE (UM Format)

1. July 12, 2017

PERSONAL

2. Name: Glen Norman Barber, Ph.D.
3. Current academic rank: Professor and Chairman
4. Primary department: Cell Biology
5. Secondary or Joint Appointments: Sylvester Comprehensive Cancer Center
6. Citizenship: United Kingdom and USA
7. Visa type: N/A

HIGHER EDUCATION

8. Institutional:

London University, LSHTM/ CAMR, England	Ph.D.	1989	Molecular Virology
University of Portsmouth, England	B.Sc. (Hons)	1984	Molecular Biology

9. Non-Institutional: N/A

10. Certification: N/A

EXPERIENCE

11. Academic:

2011 – Present Chairman and Professor, Department of Cell Biology, University of Miami Miller School of Medicine (UMMSOM), Miami, FL, USA.

2008 – Present Professor, Department of Medicine, University of Miami Miller School of Medicine (UMMSOM), Miami, FL, USA.

2006 – Present Eugenia J. Dodson Endowed Chair in Cancer Research, Sylvester Comprehensive Cancer Center (SCCC), UMMSOM.

2004 – Present Professor, Department of Microbiology and Immunology, UMMSOM.

2009 – 2016 Program Leader, Viral Oncology Program, SCCC, UMMSOM

2006 – 2016 Associate Director for Basic Research, SCCC, UMMSOM.

2002 – 2009 Co-Program Leader, Viral Oncology Program, SCCC, UMMSOM

- 1999 – 2004 Associate Professor, Department of Microbiology and Immunology, UMMSOM.
- 1996 – 1998 Assistant Professor, Department of Microbiology and Immunology, Winship Cancer Center, Emory University, Atlanta GA, USA.
- 1995 Visiting Scientist, The Institute of Medical Science, The University of Tokyo, Minato-ku, Tokyo, Japan.
- 1993 – 1995 Research Assistant Professor, Department of Microbiology, University of Washington, Seattle, WA USA.
- 1989 – 1993 Research Associate, Regional Primate Research Center and Department of Microbiology, University of Washington, Seattle, WA.

12. Hospital Appointments: N/A

13. Non-Academic: N/A

14. Military: N/A

PUBLICATIONS

1. Clegg JC, **Barber GN**, Chamberlain JF, Oram JD. Expression of Lassa virus nucleocapsid gene fragments in bacteria. *Medical Microbiology and Immunology*. 1986;175(2-3):93-5. PubMed PMID: 3523185.
2. **Barber GN**, Clegg JC, Chamberlain J. Expression of Lassa virus nucleocapsid protein segments in bacteria: purification of high-level expression products and their application in antibody detection. *Gene*. 1987;56(1):137-44. PubMed PMID: 3315857.
3. Lloyd G, **Barber GN**, Clegg JC, Kelly P. Identification of Lassa fever virus infection with recombinant nucleocapsid protein antigen. *Lancet*. 1989;2(8673):1222. PubMed PMID: 2572935.
4. **Barber GN**, Clegg JC, Lloyd G. Expression of the Lassa virus nucleocapsid protein in insect cells infected with a recombinant baculovirus: application to diagnostic assays for Lassa virus infection. *The Journal of General Virology*. 1990;71 (Pt 1):19-28. PubMed PMID: 2406367.
5. **Barber GN**, Tomita J, Hovanessian AG, Meurs E, Katze MG. Functional expression and characterization of the interferon-induced double-stranded RNA activated P68 protein kinase from Escherichia coli. *Biochemistry*. 1991;30(42):10356-61. PubMed PMID: 1718419.

6. Katze MG, Wambach M, Wong ML, Garfinkel M, Meurs E, Chong K, Williams BR, Hovanessian AG, **Barber GN**. Functional expression and RNA binding analysis of the interferon-induced, double-stranded RNA-activated, 68,000-Mr protein kinase in a cell-free system. *Molecular and Cellular Biology*. 1991;11(11):5497-505. PubMed PMID: 1717830; PubMed Central PMCID: PMC361919.
7. Hu SL, Abrams K, **Barber GN**, Moran P, Zarling JM, Langlois AJ, Kuller L, Morton WR, Benveniste RE. Protection of macaques against SIV infection by subunit vaccines of SIV envelope glycoprotein gp160. *Science*. 1992;255(5043):456-9. PubMed PMID: 1531159.
8. Meurs EF, Watanabe Y, Kadereit S, **Barber GN**, Katze MG, Chong K, Williams BR, Hovanessian AG. Constitutive expression of human double-stranded RNA-activated p68 kinase in murine cells mediates phosphorylation of eukaryotic initiation factor 2 and partial resistance to encephalomyocarditis virus growth. *Journal of Virology*. 1992;66(10):5805-14. PubMed PMID: 1382142; PubMed Central PMCID: PMC241456.
9. Koromilas AE, Roy S, **Barber GN**, Katze MG, Sonenberg N. Malignant transformation by a mutant of the IFN-inducible dsRNA-dependent protein kinase. *Science*. 1992;257(5077):1685-9. PubMed PMID: 1382315.
10. **Barber GN**, Tomita J, Garfinkel MS, Meurs E, Hovanessian A, Katze MG. Detection of protein kinase homologues and viral RNA-binding domains utilizing polyclonal antiserum prepared against a baculovirus-expressed ds RNA-activated 68,000-Da protein kinase. *Virology*. 1992;191(2):670-9. PubMed PMID: 1360180.
11. Meurs EF, Galabru J, **Barber GN**, Katze MG, Hovanessian AG. Tumor suppressor function of the interferon-induced double-stranded RNA-activated protein kinase. *Proceedings of the National Academy of Sciences of the United States of America*. 1993;90(1):232-6. PubMed PMID: 7678339; PubMed Central PMCID: PMC45634.
12. Black TL, **Barber GN**, Katze MG. Degradation of the interferon-induced 68,000-M(r) protein kinase by poliovirus requires RNA. *Journal of Virology*. 1993;67(2):791-800. PubMed PMID: 7678306; PubMed Central PMCID: PMC237432.
13. Dever TE, Chen JJ, **Barber GN**, Cigan AM, Feng L, Donahue TF, London IM, Katze MG, Hinnebusch AG. Mammalian eukaryotic initiation factor 2 alpha kinases functionally substitute for GCN2 protein kinase in the GCN4 translational control mechanism of yeast. *Proceedings of the National Academy of Sciences of the United States of America*. 1993;90(10):4616-20. PubMed PMID: 8099443; PubMed Central PMCID: PMC46563.
14. **Barber GN**, Wambach M, Wong ML, Dever TE, Hinnebusch AG, Katze MG. Translational regulation by the interferon-induced double-stranded-RNA-activated 68-kDa protein kinase. *Proceedings of the National Academy of Sciences of the United States of America*. 1993;90(10):4621-5. PubMed PMID: 8099444; PubMed Central PMCID: PMC46564.

15. **Barber GN**, Edelhoff S, Katze MG, Disteché CM. Chromosomal assignment of the interferon-inducible double-stranded RNA-dependent protein kinase (PRKR) to human chromosome 2p21-p22 and mouse chromosome 17 E2. *Genomics*. 1993;16(3):765-7. doi: 10.1006/geno.1993.1262. PubMed PMID: 7686883.
16. Hu SL, Stallard V, Abrams K, **Barber GN**, Kuller L, Langlois AJ, Morton WR, Benveniste RE. Protection of vaccinia-primed macaques against SIVmne infection by combination immunization with recombinant vaccinia virus and SIVmne gp160. *Journal of Medical Primatology*. 1993;22(2-3):92-9. PubMed PMID: 8411113.
17. **Barber GN**, Thompson S, Lee TG, Strom T, Jagus R, Darveau A, Katze MG. The 58-kilodalton inhibitor of the interferon-induced double-stranded RNA-activated protein kinase is a tetratricopeptide repeat protein with oncogenic properties. *Proceedings of the National Academy of Sciences of the United States of America*. 1994;91(10):4278-82. PubMed PMID: 7514301; PubMed Central PMCID: PMC43768.
18. Romano PR, Green SR, **Barber GN**, Mathews MB, Hinnebusch AG. Structural requirements for double-stranded RNA binding, dimerization, and activation of the human eIF-2 alpha kinase DAI in *Saccharomyces cerevisiae*. *Molecular and Cellular Biology*. 1995;15(1):365-78. PubMed PMID: 7799945; PubMed Central PMCID: PMC231972.
19. Rajan P, Swaminathan S, Zhu J, Cole CN, **Barber G**, Tevethia MJ, Thimmapaya B. A novel translational regulation function for the simian virus 40 large-T antigen gene. *Journal of Virology*. 1995;69(2):785-95. PubMed PMID: 7815544; PubMed Central PMCID: PMC188643.
20. **Barber GN**, Jagus R, Meurs EF, Hovanessian AG, Katze MG. Molecular mechanisms responsible for malignant transformation by regulatory and catalytic domain variants of the interferon-induced enzyme RNA-dependent protein kinase. *The Journal of Biological Chemistry*. 1995;270(29):17423-8. PubMed PMID: 7615547.
21. **Barber GN**, Wambach M, Thompson S, Jagus R, Katze MG. Mutants of the RNA-dependent protein kinase (PKR) lacking double-stranded RNA binding domain I can act as transdominant inhibitors and induce malignant transformation. *Molecular and Cellular Biology*. 1995;15(6):3138-46. PubMed PMID: 7539103; PubMed Central PMCID: PMC230545.
22. Polyak SJ, Tang N, Wambach M, **Barber GN**, Katze MG. The P58 cellular inhibitor complexes with the interferon-induced, double-stranded RNA-dependent protein kinase, PKR, to regulate its autophosphorylation and activity. *The Journal of Biological Chemistry*. 1996;271(3):1702-7. PubMed PMID: 8576172.
23. Sharp TV, Moonan F, Romashko A, Joshi B, **Barber GN**, Jagus R. The vaccinia virus E3L gene product interacts with both the regulatory and the substrate binding regions of PKR: implications for PKR autoregulation. *Virology*. 1998;250(2):302-15. doi: 10.1006/viro.1998.9365. PubMed PMID: 9792841.

24. Abraham N, Jaramillo ML, Duncan PI, Methot N, Icely PL, Stojdl DF, **Barber GN**, Bell JC. The murine PKR tumor suppressor gene is rearranged in a lymphocytic leukemia. *Experimental Cell Research*. 1998;244(2):394-404. doi: 10.1006/excr.1998.4201. PubMed PMID: 9806790.
25. Balachandran S, Kim CN, Yeh WC, Mak TW, Bhalla K, **Barber GN**. Activation of the dsRNA-dependent protein kinase, PKR, induces apoptosis through FADD-mediated death signaling. *The EMBO Journal*. 1998;17(23):6888-902. doi: 10.1093/emboj/17.23.6888. PubMed PMID: 9843495; PubMed Central PMCID: PMC1171037.
26. Taylor DR, Shi ST, Romano PR, **Barber GN**, Lai MM. Inhibition of the interferon-inducible protein kinase PKR by HCV E2 protein. *Science*. 1999;285(5424):107-10. PubMed PMID: 10390359.
27. Balachandran S, Roberts PC, Kipperman T, Bhalla KN, Compans RW, Archer DR, **Barber GN**. Alpha/beta interferons potentiate virus-induced apoptosis through activation of the FADD/Caspase-8 death signaling pathway. *Journal of Virology*. 2000;74(3):1513-23. PubMed PMID: 10627563; PubMed Central PMCID: PMC111487.
28. Heylbroeck C, Balachandran S, Servant MJ, DeLuca C, **Barber GN**, Lin R, Hiscott J. The IRF-3 transcription factor mediates Sendai virus-induced apoptosis. *Journal of Virology*. 2000;74(8):3781-92. PubMed PMID: 10729153; PubMed Central PMCID: PMC111887.
29. Balachandran S, Roberts PC, Brown LE, Truong H, Pattnaik AK, Archer DR, **Barber GN**. Essential role for the dsRNA-dependent protein kinase PKR in innate immunity to viral infection. *Immunity*. 2000;13(1):129-41. PubMed PMID: 10933401.
30. Balachandran S, **Barber GN**. Vesicular stomatitis virus (VSV) therapy of tumors. *IUBMB Life*. 2000;50(2):135-8. doi: 10.1080/713803696. PubMed PMID: 11185959.
31. Saunders LR, Jurecic V, **Barber GN**. The 90- and 110-kDa human NFAR proteins are translated from two differentially spliced mRNAs encoded on chromosome 19p13. *Genomics*. 2001;71(2):256-9. doi: 10.1006/geno.2000.6423. PubMed PMID: 11161820.
32. Balachandran S, Porosnicu M, **Barber GN**. Oncolytic activity of vesicular stomatitis virus is effective against tumors exhibiting aberrant p53, Ras, or myc function and involves the induction of apoptosis. *Journal of Virology*. 2001;75(7):3474-9. doi: 10.1128/JVI.75.7.3474-3479.2001. PubMed PMID: 11238874; PubMed Central PMCID: PMC114141.
33. Ezelle HJ, Balachandran S, Sicheri F, Polyak SJ, **Barber GN**. Analyzing the mechanisms of interferon-induced apoptosis using CrmA and hepatitis C virus NS5A. *Virology*. 2001;281(1):124-37. doi: 10.1006/viro.2001.0815. PubMed PMID: 11222103.

34. Lin R, Genin P, Mamane Y, Sgarbanti M, Battistini A, Harrington WJ, Jr., **Barber GN**, Hiscott J. HHV-8 encoded vIRF-1 represses the interferon antiviral response by blocking IRF-3 recruitment of the CBP/p300 coactivators. *OncoGene*. 2001;20(7):800-11. doi: 10.1038/sj.onc.1204163. PubMed PMID: 11314014.
35. Polyak SJ, Khabar KS, Paschal DM, Ezelle HJ, Duverlie G, **Barber GN**, Levy DE, Mukaida N, Gretch DR. Hepatitis C virus nonstructural 5A protein induces interleukin-8, leading to partial inhibition of the interferon-induced antiviral response. *Journal of Virology*. 2001;75(13):6095-106. doi: 10.1128/JVI.75.13.6095-6106.2001. PubMed PMID: 11390611; PubMed Central PMCID: PMC114325.
36. Saunders LR, Perkins DJ, Balachandran S, Michaels R, Ford R, Mayeda A, **Barber GN**. Characterization of two evolutionarily conserved, alternatively spliced nuclear phosphoproteins, NFAR-1 and -2, that function in mRNA processing and interact with the double-stranded RNA-dependent protein kinase, PKR. *The Journal of Biological Chemistry*. 2001;276(34):32300-12. doi: 10.1074/jbc.M104207200. PubMed PMID: 11438536.
37. Toomey NL, Deyev VV, Wood C, Boise LH, Scott D, Liu LH, Cabral L, Podack ER, **Barber GN**, Harrington WJ, Jr. Induction of a TRAIL-mediated suicide program by interferon alpha in primary effusion lymphoma. *OncoGene*. 2001;20(48):7029-40. doi: 10.1038/sj.onc.1204895. PubMed PMID: 11704827.
38. Fernandez M, Porosnicu M, Markovic D, **Barber GN**. Genetically engineered vesicular stomatitis virus in gene therapy: application for treatment of malignant disease. *Journal of Virology*. 2002;76(2):895-904. PubMed PMID: 11752178; PubMed Central PMCID: PMC136833.
39. Grandvaux N, Servant MJ, tenOever B, Sen GC, Balachandran S, **Barber GN**, Lin R, Hiscott J. Transcriptional profiling of interferon regulatory factor 3 target genes: direct involvement in the regulation of interferon-stimulated genes. *Journal of Virology*. 2002;76(11):5532-9. PubMed PMID: 11991981; PubMed Central PMCID: PMC137057.
40. Pataer A, Vorburger SA, **Barber GN**, Chada S, Mhashilkar AM, Zou-Yang H, Stewart AL, Balachandran S, Roth JA, Hunt KK, Swisher SG. Adenoviral transfer of the melanoma differentiation-associated gene 7 (mda7) induces apoptosis of lung cancer cells via up-regulation of the double-stranded RNA-dependent protein kinase (PKR). *Cancer Research*. 2002;62(8):2239-43. PubMed PMID: 11956076.
41. Vorburger SA, Pataer A, Yoshida K, **Barber GN**, Xia W, Chiao P, Ellis LM, Hung MC, Swisher SG, Hunt KK. Role for the double-stranded RNA activated protein kinase PKR in E2F-1-induced apoptosis. *OncoGene*. 2002;21(41):6278-88. doi: 10.1038/sj.onc.1205761. PubMed PMID: 12214268.
42. Ezelle HJ, Markovic D, **Barber GN**. Generation of hepatitis C virus-like particles by use of a recombinant vesicular stomatitis virus vector. *Journal of Virology*. 2002;76(23):12325-34. PubMed PMID: 12414973; PubMed Central PMCID: PMC136870.

43. Ghosh SK, Wood C, Boise LH, Mian AM, Deyev VV, Feuer G, Toomey NL, Shank NC, Cabral L, **Barber GN**, Harrington WJ, Jr. Potentiation of TRAIL-induced apoptosis in primary effusion lymphoma through azidothymidine-mediated inhibition of NF-kappa B. *Blood*. 2003;101(6):2321-7. doi: 10.1182/blood-2002-08-2525. PubMed PMID: 12406882.
44. Ogilvie VC, Wilson BJ, Nicol SM, Morrice NA, Saunders LR, **Barber GN**, Fuller-Pace FV. The highly related DEAD box RNA helicases p68 and p72 exist as heterodimers in cells. *Nucleic Acids Research*. 2003;31(5):1470-80. PubMed PMID: 12595555; PubMed Central PMCID: PMC149829.
45. Obuchi M, Fernandez M, **Barber GN**. Development of recombinant vesicular stomatitis viruses that exploit defects in host defense to augment specific oncolytic activity. *Journal of Virology*. 2003;77(16):8843-56. PubMed PMID: 12885903; PubMed Central PMCID: PMC167243.
46. Porosnicu M, Mian A, **Barber GN**. The oncolytic effect of recombinant vesicular stomatitis virus is enhanced by expression of the fusion cytosine deaminase/uracil phosphoribosyltransferase suicide gene. *Cancer Research*. 2003;63(23):8366-76. PubMed PMID: 14678998.
47. Balachandran S, **Barber GN**. Defective translational control facilitates vesicular stomatitis virus oncolysis. *Cancer Cell*. 2004;5(1):51-65. PubMed PMID: 14749126.
48. Perkins DJ, **Barber GN**. Defects in translational regulation mediated by the alpha subunit of eukaryotic initiation factor 2 inhibit antiviral activity and facilitate the malignant transformation of human fibroblasts. *Molecular and Cellular Biology*. 2004;24(5):2025-40. PubMed PMID: 14966282; PubMed Central PMCID: PMC350553.
49. Balachandran S, Thomas E, **Barber GN**. A FADD-dependent innate immune mechanism in mammalian cells. *Nature*. 2004;432(7015):401-5. doi: 10.1038/nature03124. PubMed PMID: 15549108.
50. Faria PA, Chakraborty P, Levay A, **Barber GN**, Ezelle HJ, Enninga J, Arana C, van Deursen J, Fontoura BM. VSV disrupts the Rae1/mrnp41 mRNA nuclear export pathway. *Molecular Cell*. 2005;17(1):93-102. doi: 10.1016/j.molcel.2004.11.023. PubMed PMID: 15629720.
51. Kurokawa M, Ghosh SK, Ramos JC, Mian AM, Toomey NL, Cabral L, Whitby D, **Barber GN**, Dittmer DP, Harrington WJ, Jr. Azidothymidine inhibits NF-kappaB and induces Epstein-Barr virus gene expression in Burkitt lymphoma. *Blood*. 2005;106(1):235-40. doi: 10.1182/blood-2004-09-3748. PubMed PMID: 15790788; PubMed Central PMCID: PMC1895122.

52. Pataer A, Vorburger SA, Chada S, Balachandran S, **Barber GN**, Roth JA, Hunt KK, Swisher SG. Melanoma differentiation-associated gene-7 protein physically associates with the double-stranded RNA-activated protein kinase PKR. Molecular therapy : *The Journal of the American Society of Gene Therapy*. 2005;11(5):717-23. doi: 10.1016/j.ymthe.2005.01.018. PubMed PMID: 15851010.
53. Greidinger EL, Zang Y, Jaimes K, Hogenmiller S, Nassiri M, Bejarano P, **Barber GN**, Hoffman RW. A murine model of mixed connective tissue disease induced with U1 small nuclear RNP autoantigen. *Arthritis and Rheumatism*. 2006;54(2):661-9. doi: 10.1002/art.21566. PubMed PMID: 16453294.
54. Majid AM, Ezelle H, Shah S, **Barber GN**. Evaluating replication-defective vesicular stomatitis virus as a vaccine vehicle. *Journal of Virology*. 2006;80(14):6993-7008. doi: 10.1128/JVI.00365-06. PubMed PMID: 16809305; PubMed Central PMCID: PMC1489030.
55. Lin L, Su Z, Lebedeva IV, Gupta P, Boukerche H, Rai T, **Barber GN**, Dent P, Sarkar D, Fisher PB. Activation of Ras/Raf protects cells from melanoma differentiation-associated gene-5-induced apoptosis. *Cell Death and Differentiation*. 2006;13(11):1982-93. doi: 10.1038/sj.cdd.4401899. PubMed PMID: 16575407.
56. Balachandran S, Venkataraman T, Fisher PB, **Barber GN**. Fas-associated death domain-containing protein-mediated antiviral innate immune signaling involves the regulation of Irf7. *Journal of Immunology*. 2007;178(4):2429-39. PubMed PMID: 17277150.
57. Goodman AG, Smith JA, Balachandran S, Perwitasari O, Proll SC, Thomas MJ, Korth MJ, **Barber GN**, Schiff LA, Katze MG. The cellular protein P58IPK regulates influenza virus mRNA translation and replication through a PKR-mediated mechanism. *Journal of Virology*. 2007;81(5):2221-30. doi: 10.1128/JVI.02151-06. PubMed PMID: 17166899; PubMed Central PMCID: PMC1865913.
58. Venkataraman T, Valdes M, Elsby R, Kakuta S, Caceres G, Saijo S, Iwakura Y, **Barber GN**. Loss of DExD/H box RNA helicase LGP2 manifests disparate antiviral responses. *Journal of Immunology*. 2007;178(10):6444-55. PubMed PMID: 17475874.
59. Radtke AL, Delbridge LM, Balachandran S, **Barber GN**, O'Riordan MX. TBK1 protects vacuolar integrity during intracellular bacterial infection. *PLoS Pathogens*. 2007;3(3):e29. doi: 10.1371/journal.ppat.0030029. PubMed PMID: 17335348; PubMed Central PMCID: PMC1808071.
60. Greidinger EL, Zang Y, Martinez L, Jaimes K, Nassiri M, Bejarano P, **Barber GN**, Hoffman RW. Differential tissue targeting of autoimmunity manifestations by autoantigen-associated Y RNAs. *Arthritis and Rheumatism*. 2007;56(5):1589-97. doi: 10.1002/art.22601. PubMed PMID: 17469141.

61. Andrews NP, Pack CD, Vezys V, **Barber GN**, Lukacher AE. Early virus-associated bystander events affect the fitness of the CD8 T cell response to persistent virus infection. *Journal of Immunology*. 2007;178(11):7267-75. PubMed PMID: 17513776.
62. Diaz RM, Galivo F, Kottke T, Wongthida P, Qiao J, Thompson J, Valdes M, **Barber G**, Vile RG. Oncolytic immunovirotherapy for melanoma using vesicular stomatitis virus. *Cancer Research*. 2007;67(6):2840-8. doi: 10.1158/0008-5472.CAN-06-3974. PubMed PMID: 17363607.
63. Sarkar D, Park ES, **Barber GN**, Fisher PB. Activation of double-stranded RNA dependent protein kinase, a new pathway by which human polynucleotide phosphorylase (hPNPase(old-35)) induces apoptosis. *Cancer Research*. 2007;67(17):7948-53. doi: 10.1158/0008-5472.CAN-07-0872. PubMed PMID: 17804700.
64. Von Holzen U, Pataer A, Raju U, Bocangel D, Vorburger SA, Liu Y, Lu X, Roth JA, Aggarwal BB, **Barber GN**, Keyomarsi K, Hunt KK, Swisher SG. The double-stranded RNA-activated protein kinase mediates radiation resistance in mouse embryo fibroblasts through nuclear factor kappaB and Akt activation. *Clinical Cancer Research : An official journal of the American Association for Cancer Research*. 2007;13(20):6032-9. doi: 10.1158/1078-0432.CCR-06-2932. PubMed PMID: 17947465.
65. Qiao J, Kottke T, Willmon C, Galivo F, Wongthida P, Diaz RM, Thompson J, Ryno P, **Barber GN**, Chester J, Selby P, Harrington K, Melcher A, Vile RG. Purging metastases in lymphoid organs using a combination of antigen-nonspecific adoptive T cell therapy, oncolytic virotherapy and immunotherapy. *Nature Medicine*. 2008;14(1):37-44. doi: 10.1038/nm1681. PubMed PMID: 18066076.
66. Hickman HD, Takeda K, Skon CN, Murray FR, Hensley SE, Loomis J, **Barber GN**, Bennink JR, Yewdell JW. Direct priming of antiviral CD8+ T cells in the peripheral interfollicular region of lymph nodes. *Nature Immunology*. 2008;9(2):155-65. doi: 10.1038/ni1557. PubMed PMID: 18193049.
67. Pfeifer I, Elsby R, Fernandez M, Faria PA, Nussenzweig DR, Lossos IS, Fontoura BM, Martin WD, **Barber GN**. NFAR-1 and -2 modulate translation and are required for efficient host defense. *Proceedings of the National Academy of Sciences of the United States of America*. 2008;105(11):4173-8. doi: 10.1073/pnas.0711222105. PubMed PMID: 18337511; PubMed Central PMCID: PMC2393807.
68. Kottke T, Galivo F, Wongthida P, Diaz RM, Thompson J, Jevremovic D, **Barber GN**, Hall G, Chester J, Selby P, Harrington K, Melcher A, Vile RG. Treg depletion-enhanced IL-2 treatment facilitates therapy of established tumors using systemically delivered oncolytic virus. *Molecular Therapy : The Journal of the American Society of Gene Therapy*. 2008;16(7):1217-26. doi: 10.1038/mt.2008.83. PubMed PMID: 18431359; PubMed Central PMCID: PMC2729455.

69. Kottke T, Diaz RM, Kaluza K, Pulido J, Galivo F, Wongthida P, Thompson J, Willmon C, **Barber GN**, Chester J, Selby P, Strome S, Harrington K, Melcher A, Vile RG. Use of biological therapy to enhance both virotherapy and adoptive T-cell therapy for cancer. *Molecular Therapy : the journal of the American Society of Gene Therapy*. 2008;16(12):1910-8. doi: 10.1038/mt.2008.212. PubMed PMID: 18827807; PubMed Central PMCID: PMC2729459.
70. Ishikawa H, **Barber GN**. STING an endoplasmic reticulum adaptor that facilitates innate immune signaling. *Nature*. 2008;455(7213):674-8. doi: 10.1038/nature07317. PubMed PMID: 18724357; PubMed Central PMCID: PMC2804933.
71. Parisien JP, Bamming D, Komuro A, Ramachandran A, Rodriguez JJ, **Barber G**, Wojahn RD, Horvath CM. A shared interface mediates paramyxovirus interference with antiviral RNA helicases MDA5 and LGP2. *Journal of Virology*. 2009;83(14):7252-60. doi: 10.1128/JVI.00153-09. PubMed PMID: 19403670; PubMed Central PMCID: PMC2704796.
72. Chakraborty P, Seemann J, Mishra RK, Wei JH, Weil L, Nussenzveig DR, Heiber J, **Barber GN**, Dasso M, Fontoura BM. Vesicular stomatitis virus inhibits mitotic progression and triggers cell death. *EMBO Reports*. 2009;10(10):1154-60. doi: 10.1038/embor.2009.179. PubMed PMID: 19745842; PubMed Central PMCID: PMC2759734.
73. Saloura V, Wang LC, Fridlender ZG, Sun J, Cheng G, Kapoor V, Serman DH, Harty RN, Okumura A, **Barber GN**, Vile RG, Federspiel MJ, Russell SJ, Litzky L, Albelda SM. Evaluation of an attenuated vesicular stomatitis virus vector expressing interferon-beta for use in malignant pleural mesothelioma: heterogeneity in interferon responsiveness defines potential efficacy. *Human Gene Therapy*. 2010;21(1):51-64. doi: 10.1089/hum.2009.088. PubMed PMID: 19715403; PubMed Central PMCID: PMC2829454.
74. Willmon CL, Saloura V, Fridlender ZG, Wongthida P, Diaz RM, Thompson J, Kottke T, Federspiel M, **Barber G**, Albelda SM, Vile RG. Expression of IFN-beta enhances both efficacy and safety of oncolytic vesicular stomatitis virus for therapy of mesothelioma. *Cancer Research*. 2009;69(19):7713-20. doi: 10.1158/0008-5472.CAN-09-1013. PubMed PMID: 19773437.
75. Ishikawa H, Ma Z, **Barber GN**. STING regulates intracellular DNA-mediated, type I interferon-dependent innate immunity. *Nature*. 2009;461(7265):788-92. doi: 10.1038/nature08476. PubMed PMID: 19776740.
76. Kelly EJ, Nace R, **Barber GN**, Russell SJ. Attenuation of vesicular stomatitis virus encephalitis through microRNA targeting. *Journal of Virology*. 2010;84(3):1550-62. doi: 10.1128/JVI.01788-09. PubMed PMID: 19906911; PubMed Central PMCID: PMC2812322.

77. Jenks N, Myers R, Greiner SM, Thompson J, Mader EK, Greenslade A, Griesmann GE, Federspiel MJ, Rakela J, Borad MJ, Vile RG, **Barber GN**, Meier TR, Blanco MC, Carlson SK, Russell SJ, Peng KW. Safety studies on intrahepatic or intratumoral injection of oncolytic vesicular stomatitis virus expressing interferon-beta in rodents and nonhuman primates. *Human Gene Therapy*. 2010;21(4):451-62. doi: 10.1089/hum.2009.111. PubMed PMID: 19911974; PubMed Central PMCID: PMC2865219.
78. Galivo F, Diaz RM, Thanarajasingam U, Jevremovic D, Wongthida P, Thompson J, Kottke T, **Barber GN**, Melcher A, Vile RG. Interference of CD40L-mediated tumor immunotherapy by oncolytic vesicular stomatitis virus. *Human Gene Therapy*. 2010;21(4):439-50. doi: 10.1089/hum.2009.143. PubMed PMID: 19922169; PubMed Central PMCID: PMC2865217.
79. Capo-chichi CD, Yeasky TM, Heiber JF, Wang Y, **Barber GN**, Xu XX. Explicit targeting of transformed cells by VSV in ovarian epithelial tumor-bearing Wv mouse models. *Gynecologic Oncology*. 2010;116(2):269-75. doi: 10.1016/j.ygyno.2009.10.086. PubMed PMID: 19932656; PubMed Central PMCID: PMC2813895.
80. Galivo F, Diaz RM, Wongthida P, Thompson J, Kottke T, **Barber G**, Melcher A, Vile R. Single-cycle viral gene expression, rather than progressive replication and oncolysis, is required for VSV therapy of B16 melanoma. *Gene Therapy*. 2010;17(2):158-70. doi: 10.1038/gt.2009.161. PubMed PMID: 20016540.
81. Parvatiyar K, **Barber GN**, Harhaj EW. TAX1BP1 and A20 inhibit antiviral signaling by targeting TBK1-IKKi kinases. *The Journal of Biological Chemistry*. 2010;285(20):14999-5009. doi: 10.1074/jbc.M110.109819. PubMed PMID: 20304918; PubMed Central PMCID: PMC2865285.
82. Gualco G, Weiss LM, **Barber GN**, Bacchi CE. T-cell leukemia 1 expression in nodal Epstein-Barr virus-negative diffuse large B-cell lymphoma and primary mediastinal B-cell lymphoma. *Human Pathology*. 2010;41(9):1238-44. doi: 10.1016/j.humpath.2010.01.015. PubMed PMID: 20382409.
83. Gualco G, Weiss LM, **Barber GN**, Bacchi CE. Diffuse large B-cell lymphoma involving the central nervous system. *International Journal of Surgical Pathology*. 2011;19(1):44-50. doi: 10.1177/1066896910386476. PubMed PMID: 21087986.
84. Harashima A, Guettouche T, **Barber GN**. Phosphorylation of the NFAR proteins by the dsRNA-dependent protein kinase PKR constitutes a novel mechanism of translational regulation and cellular defense. *Genes & Development*. 2010;24(23):2640-53. doi: 10.1101/gad.1965010. PubMed PMID: 21123651; PubMed Central PMCID: PMC2994038.
85. Gualco G, Klumb CE, **Barber GN**, Weiss LM, Bacchi CE. Pediatric lymphomas in Brazil. *Clinics*. 2010;65(12):1267-77. PubMed PMID: 21340214; PubMed Central PMCID: PMC3020336.

86. Pollpeter D, Komuro A, **Barber GN**, Horvath CM. Impaired cellular responses to cytosolic DNA or infection with *Listeria monocytogenes* and vaccinia virus in the absence of the murine LGP2 protein. *PLoS One*. 2011;6(4):e18842. doi: 10.1371/journal.pone.0018842. PubMed PMID: 21533147; PubMed Central PMCID: PMC3077416.
87. Elsby R, Heiber JF, Reid P, Kimball SR, Pavitt GD, **Barber GN**. The alpha subunit of eukaryotic initiation factor 2B (eIF2B) is required for eIF2-mediated translational suppression of vesicular stomatitis virus. *Journal of Virology*. 2011;85(19):9716-25. doi: 10.1128/JVI.05146-11. PubMed PMID: 21795329; PubMed Central PMCID: PMC3196436.
88. Heiber JF, **Barber GN**. Vesicular stomatitis virus expressing tumor suppressor p53 is a highly attenuated, potent oncolytic agent. *Journal of Virology*. 2011;85(20):10440-50. doi: 10.1128/JVI.05408-11. PubMed PMID: 21813611; PubMed Central PMCID: PMC3187518.
89. Chen H, Sun H, You F, Sun W, Zhou X, Chen L, Yang J, Wang Y, Tang H, Guan Y, Xia W, Gu J, Ishikawa H, Gutman D, **Barber G**, Qin Z, Jiang Z. Activation of STAT6 by STING is critical for antiviral innate immunity. *Cell*. 2011;147(2):436-46. doi: 10.1016/j.cell.2011.09.022. PubMed PMID: 22000020.
90. Wang L, Toomey NL, Diaz LA, Walker G, Ramos JC, **Barber GN**, Ning S. Oncogenic IRFs provide a survival advantage for Epstein-Barr virus- or human T-cell leukemia virus type 1-transformed cells through induction of BIC expression. *Journal of Virology*. 2011;85(16):8328-37. doi: 10.1128/JVI.00570-11. PubMed PMID: 21680528; PubMed Central PMCID: PMC3147954.
91. Gualco G, Domeny-Duarte P, Chioato L, **Barber G**, Natkunam Y, Bacchi CE. Clinicopathologic and molecular features of 122 Brazilian cases of nodal and extranodal NK/T-cell lymphoma, nasal type, with EBV subtyping analysis. *The American Journal of Surgical Pathology*. 2011;35(8):1195-203. doi: 10.1097/PAS.0b013e31821ec4b5. PubMed PMID: 21716086.
92. Sharma S, DeOliveira RB, Kalantari P, Parroche P, Goutagny N, Jiang Z, Chan J, Bartholomeu DC, Lauw F, Hall JP, **Barber GN**, Gazzinelli RT, Fitzgerald KA, Golenbock DT. Innate immune recognition of an AT-rich stem-loop DNA motif in the *Plasmodium falciparum* genome. *Immunity*. 2011;35(2):194-207. doi: 10.1016/j.immuni.2011.05.016. PubMed PMID: 21820332; PubMed Central PMCID: PMC3162998.
93. Heiber JF, Xu XX, **Barber GN**. Potential of vesicular stomatitis virus as an oncolytic therapy for recurrent and drug-resistant ovarian cancer. *Chinese Journal of Cancer*. 2011;30(12):805-14. doi: 10.5732/cjc.011.10205. PubMed PMID: 22059911.
94. Ayala-Breton C, **Barber GN**, Russell SJ, Peng KW. Retargeting vesicular stomatitis virus using measles virus envelope glycoproteins. *Human Gene Therapy*. 2012;23(5):484-91. doi: 10.1089/hum.2011.146. PubMed PMID: 22171635; PubMed Central PMCID: PMC3360499.

95. Gall A, Treuting P, Elkon KB, Loo YM, Gale M, Jr., **Barber GN**, Stetson DB. Autoimmunity initiates in non-hematopoietic cells and progresses via lymphocytes in an interferon-dependent autoimmune disease. *Immunity*. 2012;36(1):120-31. doi: 10.1016/j.immuni.2011.11.018. PubMed PMID: 22284419; PubMed Central PMCID: PMC3269499.
96. Naik S, Nace R, Federspiel MJ, **Barber GN**, Peng KW, Russell SJ. Curative one-shot systemic virotherapy in murine myeloma. *Leukemia*. 2012;26(8):1870-8. doi: 10.1038/leu.2012.70. PubMed PMID: 22425894; PubMed Central PMCID: PMC3411853.
97. Naik S, Nace R, **Barber GN**, Russell SJ. Potent systemic therapy of multiple myeloma utilizing oncolytic vesicular stomatitis virus coding for interferon-beta. *Cancer Gene Therapy*. 2012;19(7):443-50. doi: 10.1038/cgt.2012.14. PubMed PMID: 22522623; PubMed Central PMCID: PMC3380174.
98. Liu YP, Zeng L, Tian A, Bomkamp A, Rivera D, Gutman D, **Barber GN**, Olson JK, Smith JA. Endoplasmic reticulum stress regulates the innate immunity critical transcription factor IRF3. *Journal of Immunology*. 2012;189(9):4630-9. doi: 10.4049/jimmunol.1102737. PubMed PMID: 23028052; PubMed Central PMCID: PMC3478468.
99. Shrestha N, Bahnan W, Wiley DJ, **Barber G**, Fields KA, Schesser K. Eukaryotic initiation factor 2 (eIF2) signaling regulates proinflammatory cytokine expression and bacterial invasion. *The Journal of Biological Chemistry*. 2012;287(34):28738-44. doi: 10.1074/jbc.M112.375915. PubMed PMID: 22761422; PubMed Central PMCID: PMC3436510.
100. Aguirre S, Maestre AM, Pagni S, Patel JR, Savage T, Gutman D, Maringer K, Bernal-Rubio D, Shabman RS, Simon V, Rodriguez-Madoz JR, Mulder LC, **Barber GN**, Fernandez-Sesma A. DENV inhibits type I IFN production in infected cells by cleaving human STING. *PLoS Pathogens*. 2012;8(10):e1002934. doi: 10.1371/journal.ppat.1002934. PubMed PMID: 23055924; PubMed Central PMCID: PMC3464218.
101. Ahn J, Gutman D, Saijo S, **Barber GN**. STING manifests self DNA-dependent inflammatory disease. *Proceedings of the National Academy of Sciences of the United States of America*. 2012;109(47):19386-91. doi: 10.1073/pnas.1215006109. PubMed PMID: 23132945; PubMed Central PMCID: PMC3511090.
102. Tesfay MZ, Kirk AC, Hadac EM, Griesmann GE, Federspiel MJ, **Barber GN**, Henry SM, Peng KW, Russell SJ. PEGylation of vesicular stomatitis virus extends virus persistence in blood circulation of passively immunized mice. *Journal of Virology*. 2013;87(7):3752-9. doi: 10.1128/JVI.02832-12. PubMed PMID: 23325695; PubMed Central PMCID: PMC3624195.
103. Abe T, Harashima A, Xia T, Konno H, Konno K, Morales A, Ahn J, Gutman D, **Barber GN**. STING recognition of cytoplasmic DNA instigates cellular defense. *Molecular Cell*. 2013;50(1):5-15. doi: 10.1016/j.molcel.2013.01.039. PubMed PMID: 23478444.

104. Aikawa H, Tamai M, Mitamura K, Itmainati F, **Barber GN**, Tagawa YI. Innate immunity in an in vitro murine blastocyst model using embryonic and trophoblast stem cells. *Journal of Bioscience and Bioengineering*. 2013. doi: 10.1016/j.jbiosc.2013.09.001. PubMed PMID: 24113362.
105. Chin KH, Tu ZL, Su YC, Yu YJ, Chen HC, Lo YC, Chen CP, **Barber GN**, Chuah ML, Liang ZX, Chou SH. Novel c-di-GMP recognition modes of the mouse innate immune adaptor protein STING. Acta crystallographica Section D, *Biological Crystallography*. 2013;69(Pt 3):352-66. doi: 10.1107/S09074444912047269. PubMed PMID: 23519410.
106. Huang L, Li L, Lemos H, Chandler PR, Pacholczyk G, Baban B, **Barber GN**, Hayakawa Y, McGaha TL, Ravishankar B, Munn DH, Mellor AL. Cutting Edge: DNA Sensing via the STING Adaptor in Myeloid Dendritic Cells Induces Potent Tolerogenic Responses. *Journal of Immunology*. 2013;191(7):3509-13. doi: 10.4049/jimmunol.1301419. PubMed PMID: 23986532; PubMed Central PMCID: PMC3788571.
107. Kurisetty VV, Heiber J, Myers R, Pereira GS, Goodwin JW, Federspiel MJ, Russell SJ, Peng KW, **Barber G**, Merchan JR. Preclinical safety and activity of recombinant VSV-IFN-beta in an immunocompetent model of squamous cell carcinoma of the head and neck. *Head & Neck*. 2013. doi: 10.1002/hed.23502. PubMed PMID: 24115092.
108. Konno H, Konno K, **Barber GN**. Cyclic Di Nucleotides Trigger ULK1 (ATG1) Phosphorylation of STING to Prevent Sustained Innate Immune Signaling. *Cell*. 2013. doi: 10.1016/j.cell.2013.09.049. PubMed PMID: 24119841.
109. Kondo T, Kobayashi J, Saitoh T, Maruyama K, Ishii KJ, **Barber GN**, Komatsu K, Akira S, Kawai T. DNA damage sensor MRE11 recognizes cytosolic double-stranded DNA and induces type I interferon by regulating STING trafficking. *Proceedings of the National Academy of Sciences of the United States of America*. 2013;110(8):2969-74. doi: 10.1073/pnas.1222694110. PubMed PMID: 23388631; PubMed Central PMCID: PMC3581880.
110. Ma Z, Moore R, Xu X, **Barber GN**. DDX24 negatively regulates cytosolic RNA-mediated innate immune signaling. *PLoS pathogens*. 2013;9(10):e1003721. doi: 10.1371/journal.ppat.1003721. PubMed PMID: 24204270; PubMed Central PMCID: PMC3814876.
111. Imanishi T, Ishihara C, Badr Mel S, Hashimoto-Tane A, Kimura Y, Kawai T, Takeuchi O, Ishii KJ, Taniguchi S, Noda T, Hirano H, Brombacher F, **Barber GN**, Akira S, Saito T. Nucleic acid sensing by T cells initiates Th2 cell differentiation. *Nature Communications*. 2014;5:3566. doi: 10.1038/ncomms4566. PubMed PMID: 24717539.
112. Abe T, **Barber GN**. Cytosolic-DNA-mediated, STING-dependent proinflammatory gene induction necessitates canonical NF-kappaB activation through TBK1. *Journal of Virology*. 2014;88(10):5328-41. doi: 10.1128/JVI.00037-14. PubMed PMID: 24600004; PubMed Central PMCID: PMC4019140.

113. Tesfay MZ, Ammayappan A, Federspiel MJ, **Barber GN**, Stojdl D, Peng KW, Russell SJ. Vesiculovirus neutralization by natural IgM and complement. *Journal of Virology*. 2014;88(11):6148-57. doi: 10.1128/JVI.00074-14. PubMed PMID: 24648451.
114. Lemos H, Huang L, Chandler PR, Mohamed E, Souza GR, Li L, Pacholczyk G, **Barber GN**, Hayakawa Y, Munn DH, Mellor AL. Activation of the STING Adaptor Attenuates Experimental Autoimmune Encephalitis. *Journal of Immunology*. 2014;192(12):5571-8. doi: 10.4049/jimmunol.1303258. PubMed PMID: 24799564.
115. Ahn J, Ruiz P, **Barber GN**. Intrinsic Self-DNA triggers inflammatory disease dependent on STING. *Journal of Immunology*. 2014;193(9):4634-42. doi: 10.4049/jimmunol.1401337. PubMed PMID: 25261479.
116. Ahn J, Xia T, Konno H, Konno K, Ruiz P, **Barber GN**. Inflammation-driven carcinogenesis is mediated through STING. *Nature Communications*. 2014;5:5166. doi: 10.1038/ncomms6166. PubMed PMID: 25300616.
117. Woo SR, Fuertes MB, Corrales L, Spranger S, Furdyna MJ, Leung MY, Duggan R, Wang Y, **Barber GN**, Fitzgerald KA, Alegre ML, Gajewski TF. STING-dependent cytosolic DNA sensing mediates innate immune recognition of immunogenic tumors. *Immunity*. 2014;41(5):830-42. doi: 10.1016/j.immuni.2014.10.017. PubMed PMID: 25517615; PubMed Central PMCID: PMC4384884.
118. Yarbrough ML, Zhang K, Sakthivel R, Forst CV, Posner BA, **Barber GN**, White MA, Fontoura BM. Primate-specific miR-576-3p sets host defense signalling threshold. *Nature Communications*. 2014;5:4963. doi: 10.1038/ncomms5963. PubMed PMID: 25232931; PubMed Central PMCID: PMC4170571.
119. Ahn J, Konno H, **Barber GN**. Diverse roles of STING-dependent signaling on the development of cancer. *Oncogene*. 2015. doi: 10.1038/onc.2014.457. PubMed PMID: 25639870.
120. Chan MP, Onji M, Fukui R, Kawane K, Shibata T, Saitoh S, Ohto U, Shimizu T, **Barber GN**, Miyake K. DNase II-dependent DNA digestion is required for DNA sensing by TLR9. *Nature Communications*. 2015;6:5853. doi: 10.1038/ncomms6853. PubMed PMID: 25600358.
121. Hyun J, Ramos JC, Toomey N, Balachandran S, Lavorgna A, Harhaj E, **Barber GN**. Oncogenic human T-cell lymphotropic virus type 1 tax suppression of primary innate immune signaling pathways. *Journal of Virology*. 2015;89(9):4880-93. doi: 10.1128/JVI.02493-14. PubMed PMID: 25694597.
122. Kobayashi H, Kobayashi CI, Nakamura-Ishizu A, Karigane D, Haeno H, Yamamoto KN, Sato T, Ohteki T, Hayakawa Y, **Barber GN**, Kurokawa M, Suda T, Takubo K. Bacterial c-di-GMP Affects Hematopoietic Stem/Progenitors and Their Niches through STING. *Cell Reports*. 2015;11(1):71-84. doi: 10.1016/j.celrep.2015.02.066. PubMed PMID: 25843711.

123. Ma Z, Jacobs SR, West JA, Stopford C, Zhang Z, Davis Z, Barber GN, Glaunsinger BA, Dittmer DP, Damania B. Modulation of the cGAS-STING DNA sensing pathway by gammaherpesviruses. *Proceedings of the National Academy of Sciences of the United States of America*. 2015;112(31):E4306-15. doi: 10.1073/pnas.1503831112. PubMed PMID: 26199418; PubMed Central PMCID: PMC4534226.
124. Betancourt D, Ramos JC, **Barber GN**. Retargeting Oncolytic Vesicular Stomatitis Virus to Human T-Cell Lymphotropic Virus Type 1-Associated Adult T-Cell Leukemia. *Journal of Virology*. 2015;89(23):11786-800. doi: 10.1128/JVI.01356-15. PubMed PMID: 26378177.
125. Agarwal NK, Kim CH, Kunkalla K, Konno H, Tjendra Y, Kwon D, Blonska M, Kozloski GA, Moy VT, Verdun RE, **Barber GN**, Lossos IS, Vega F. Active IKKbeta promotes the stability of GLI1 oncogene in diffuse large B-cell lymphoma. *Blood*. 2015. doi: 10.1182/blood-2015-07-658781. PubMed PMID: 26603838.
126. Castro I, Giret TM, Magnani DM, Maxwell HS, Umland O, Perry JK, Pecotte JK, Brasky KM, **Barber GN**, Desrosiers RC, Watkins DI. Cellular Immune Responses against Simian T Lymphotropic Virus Type 1 Target Tax in Infected Baboons. *Journal of Virology*. 2016 May 12; 90(11):5280-91. doi: 10.1128/JVI.00281-16.
127. Mukai K, Konno H, Akiba T, Uemura T, Waguri S, Kobayashi T, **Barber GN**, Arai H, Taguchi T. Activation of STING requires palmitoylation at the Golgi. *Nature Communications*. 2016 Jun 21;7:11932. doi: 10.1038/ncomms11932. PMID: 27324217
128. Xia T, Konno H, Ahn J, **Barber, GN**. Deregulation of STING Signaling in Colorectal Carcinoma Constrains DNA-Damage Responses and Correlates With Tumorigenesis. *Cell Reports*. 2016;14(2):282-97. doi:10.1016/j.celrep.2015.12.029. PubMed PMID: 26748708.
129. Xia T, Konno H, **Barber, GN**. Recurrent Loss of STING Signaling in Melanoma Correlates with Susceptibility to Viral Oncolysis. *Cancer Research* 2016, Nov 15;76(22):6747-6759. doi: 10.1158/0008-5472.CAN-16-1404. Epub 2016 Sep 28.
130. Komuro A, Homma Y, Negoro T, **Barber GN**, Horvath CM. The TAR-RNA binding protein is required for immunoresponses triggered by Cardiovirus infection. *Biochem Biophys Res Commun*. 2016 Nov 11;480(2):187-193. doi: 10.1016/j.bbrc.2016.10.023. Epub 2016 Oct 13. PMID: 27743889
131. Betancourt D, de Queiroz NM, Xia T, Ahn J, **Barber GN**. Cutting Edge: Innate Immune Augmenting Vesicular Stomatitis Virus Expressing Zika Virus Proteins Confers Protective Immunity. *Journal of Immunology*. 2017 Apr 15;198(8):3023-3028. doi: 10.4049/jimmunol.1602180. Epub 2017 Mar 13. PMID: 28289159
132. Guoxin Ni, Hiroyasu Konno, **Barber GN.**, Ubiquitination of STING at lysine 224 controls IRF3 activation. *Science Immunology (In Press)*

133. James Termini, Diogo Magnani, Helen Maxwell, William Lauer, Iris Castro, Jerilyn Pecotte, **Glen Barber**, David Watkins, Ronald Desrosiers. STLV-1 infection of Papio Anubis: tax Sequence Heterogeneity and T Cell. *Journal of virology (In Press)*

REVIEW ARTICLES AND BOOK CHAPTERS

1. **Barber GN**, Agy MB, Katze MG. (1994) Regulation of viral and cellular gene expression in cells infected by animal viruses including influenza virus and human immunodeficiency virus type 1. *Methods in Molecular Genetics: Molecular Virology, Vol 4. Part A, Chapter 12* Academic Press.
2. Jagus R, Joshi B, **Barber GN**. (1999) PKR, Apoptosis and Cancer: Translational control and cancer. *Int. J. of Biochemistry and Cell Biology.* 31; 123-138.
3. **Barber GN**. (2000) The Interferons and Cell Death: Guardians of the cell or accomplices of apoptosis? *Seminars in Cancer Biology Vol 10; 2* 103-113.
4. **Barber GN**. (2001) Host defense, Viruses and Apoptosis. *Cell Death and Differentiation, Vol 8(2)* 113-26.
5. Saunders LR and **Barber GN**. (2003) The dsRNA-binding protein family: Critical roles, diverse cellular functions. *FASEB J.* 17(9):961-83.
6. **Barber GN**. (2004) Vesicular stomatitis virus as an oncolytic vector. *Viral Immunology* 17(4); 516-27.
7. **Barber GN**. (2005) Vesicular stomatitis virus and RNA-viruses as gene therapy vectors (Cancer Drug Discovery and Development; Gene Therapy for Cancer; Edited by P. Dolgert, Humana Press Inc.
8. **Barber GN**. (2005) The dsRNA-dependent protein kinase, PKR and cell death. *Cell Death and Differentiation* 2(6)563-70.
9. **Barber GN**. (2005) VSV-selective replication and protein translation. *Oncogene* 21;24(52):7710-9.
10. Majid A and **Barber GN**. (2006) Recombinant Vesicular Stomatitis Virus (VSV) and Other Strategies in HCV Vaccine Designs and Immunotherapy. *Hepatitis C Viruses: Genomes and Molecular Biology, Chapter 15, Norfolk (UK): Horizon Bioscience.*
11. Balachandran S and **Barber GN**. (2007) Interferon and Host Defense. *Cancer Genomics and Proteomics: Methods and Protocols.* (Edited by P.B. Fisher, Humana Press Inc).
12. **Barber GN**. (2009) The NFAR's (nuclear factors associated with dsRNA): evolutionarily conserved members of the dsRNA-binding family. *RNA Biol. Jan-Mar;6(1):35-9.*

13. Barral PM, Sarkar D, Su ZZ, **Barber GN**, DeSalle R, Racaniello VR, Fisher PB. (2009) Functions of the cytoplasmic RNA sensors RIG-I and MDA-5: key regulators of innate immunity. *Pharmacol Ther.* Nov; 124 (2):219-34.
14. Ishikawa H and **Barber GN**. (2011) . The STING Pathway and Regulation of Innate Immune Signaling in Response to DNA Pathogens. *Cell Mol Life Sci.* Apr;68(7):1157-65.
15. Ning S, Pagano JS and **Barber GN**. (2011) IRF7: Activation, Regulation, Modification and Function *Genes and Immunity*, 12, 399–414.
16. **Barber GN**. (2011). Innate immune DNA sensing pathways: STING, AIMII and the regulation of interferon production and inflammatory responses. *Curr Opin Immunol*, Feb;23(1):10-20.
17. **Barber GN**. (2011) Intracellular DNA Regulated Innate Immune Signaling. *Opinions in Immunology* (to be submitted).
18. **Barber GN**. STING-dependent cytosolic DNA sensing pathways. *Trends in immunology*. 2014;35(2):88-93. Epub 2013/12/07. doi: 10.1016/j.it.2013.10.010. PubMed PMID: 24309426.
19. Ahn J, **Barber GN**. Self-DNA, STING-dependent signaling and the origins of autoinflammatory disease. *Current opinion in immunology*. 2014;31:121-6. doi: 10.1016/j.coi.2014.10.009. PubMed PMID: 25459004.
20. Konno H, **Barber GN**. The STING controlled cytosolic-DNA activated innate immune pathway and microbial disease. *Microbes and infection / Institut Pasteur*. 2014;16(12):998-1001. doi: 10.1016/j.micinf.2014.10.002. PubMed PMID: 25449752.
21. **Barber GN**. STING: infection, inflammation and cancer. *Nat Rev Immunol*. 2015;15(12):760-70. doi: 10.1038/nri3921. PubMed PMID: 26603901.