

6. LITERATURVERZEICHNIS

- Afione, S. A., Conrad, C. K., Kearns, W. G., Chunduru, S., Adams, R., Reynolds, T. C., Guggino, W. B., Cutting, G. R., Carter, B. J., and Flotte, T. R. (1996). In vivo model of adeno-associated virus vector persistence and rescue. *Journal of Virology* **70**(5), 3235-3241.
- Antoni, B. A., Rabson, A. B., Miller, I. L., Trempe, J. P., Chejanovsky, N., and Carter, B. J. (1991). Adeno-associated virus rep protein inhibits human immunodeficiency virus type 1 production in human cells. *Journal of Virology* **65**(1), 396-404.
- Archetti, I., and Bocciarelli, D. S. (1965). [Structure and biological characteristics of a small, still unclassified virus]. *Ann Ist Super Sanita* **1**(1), 103-6.
- Ashktorab, H., and Srivastava, A. (1989). Identification of nuclear proteins that specifically interact with adeno-associated virus type 2 inverted terminal repeat hairpin DNA. *Journal of Virology* **63**(7), 3034-3039.
- Asubel, F. M., Brent, R., Kingston, R. E., Moore, D. D., Seidman, J. G., Smith, J. A., and Struhl, K. (1987). "Current protocols in molecular biology." John Wiley & Sons.
- Atchinson, R. W., Casto, B. C., and Hammon, W. M. C. D. (1965). Adenovirus-associated defective virus particles. *Science* **194**, 754-756.
- Balagué, C., Kalla, M., and Zhang, W.-W. (1997). Adeno-associated virus Rep78 protein and terminal repeats enhance integration of DNA sequences into the cellular genome. *Journal of Virology* **71**(4), 3299-3306.
- Bantel-Schaal, U. (1995). Growth properties of a human melanoma cell line are altered by adeno-associated parvovirus type 2. *International Journal of Cancer* **60**(2), 269-274.
- Bartlett, J. S., Wilcher, R., and Samulski, R. J. (2000). Infectious entry pathway of adeno-associated virus and adeno-associated virus vectors. *J Virol* **74**(6), 2777-85.
- Batchu, R. B., Kotin, R. M., and Hermonat, P. L. (1994). The regulatory *rep* protein of adeno-associated virus binds to sequences within the c-H-*ras* promoter. *Cancer Letters* **86**(1), 23-31.
- Beaton, A., Palumbo, P., and Berns, K. I. (1989). Expression from the adeno-associated virus p5 and p19 promoters is negatively regulated in trans by the rep protein. *Journal of Virology* **63**(10), 4450-4454.
- Berns, K. I., and Bohenzky (1987). Adeno-associated viruses: an update. *Adv. Virus Res.* **32**, 243-306.
- Berns, K. I., and Giraud, C. (1996). Biology of adeno-associated virus. *Curr Top Microbiol Immunol* **218**, 1-23.
- Berns, K. I., Pinkerton, T. C., Thomas, G. F., and Hoggan, M. D. (1975). Detection of adeno-associated virus (AAV)-specific nucleotide sequences in DNA isolated from latently infected Detroit 6 cells. *Virology* **68**(2), 556-560.
- Blacklow, N. R., Hoggan, M. D., Kapikian, A. Z., Austin, J. B., and Rowe, W. P. (1968). Epidemiology of adenovirus-associated virus infection in a nursery population. *Am J Epidemiol* **88**(3), 368-78.
- Blacklow, N. R., Hoggan, M. D., and Rowe, W. P. (1968). Serologic evidence for human infection with adenovirus-associated viruses. *J Natl Cancer Inst* **40**(2), 319-27.
- Brister, J. R., and Muzyczka, N. (1999). Rep-mediated nicking of the adeno-associated virus origin requires two biochemical activities, DNA helicase activity and transesterification. *J Virol* **73**(11), 9325-36.
- Brown, K. E., and Young, N. S. (1997). Parvovirus B19 in human disease. *Annu. Rev. Med.* **48**, 59-67.
- Buller, R. M., Janik, J. E., Sebring, E. D., and Rose, J. A. (1981). Herpes simplex virus types 1 and 2 completely help adenovirus-associated virus replication. *J Virol* **40**(1), 241-7.

- Buller, R. M., and Rose, J. A. (1978). Characterization of adeno-associated virus-induced polypeptides in KB cells. *Journal of Virology* **25**, 331-338.
- Carter, B. J., Antoni, B. A., and Klessig, D. F. (1992). Adenovirus containing a deletion of the early region 2A gene allows growth of adeno-associated virus with decreased efficiency. *Virology* **191**(1), 473-476.
- Carter, B. J., Laughlin, C. A., de la Maza, L. M., and Myers, M. (1979). Adeno-associated virus autointerference. *Virology* **92**(2), 449-62.
- Casto, B. C., Armstrong, J. A., Atchison, R. W., and Hammon, W. M. (1967). Studies on the relationship between adeno-associated virus type 1 (AAV-1) and adenoviruses.
II. Inhibition of adenovirus plaques by AAV; its nature and specificity. *Virology* **33**(3), 452-458.
- Casto, B. C., Atchison, R. W., and Hammon, W. M. (1967). Studies on the relationship between adeno-associated virus type I (AAV-1) and adenoviruses.
I. Replication of AAV-1 in certain cell cultures and its effect on helper adenovirus. *Virology* **32**(1), 52-59.
- Casto, B. C., and Goodheart, C. R. (1972). Inhibition of adenovirus transformation in vitro by AAV-1. *Proc. Soc. Exp. Med. Biol.* **140**(1), 72-78.
- Chang, L. S., and Shenk, T. (1990). The adenovirus DNA-binding protein stimulates the rate of transcription directed by adenovirus and adeno-associated virus promoters. *J Virol* **64**(5), 2103-9.
- Chang, L. S., Shi, Y., and Shenk, T. (1989). Adeno-associated virus P5 promoter contains an adenovirus E1A-inducible element and a binding site for the major late transcription factor. *J Virol* **63**(8), 3479-88.
- Chen, C., and Okayama, H. (1987). High-efficiency transformation of mammalian cells by plasmid DNA. *Mol. Cell. Biol.* **7**, 2745-2752.
- Chen, C. A., and Okayama, H. (1988). Calcium phosphate-mediated gene transfer: a highly efficient transfection system for stably transforming cells with plasmid DNA. *Biotechniques* **6**(7), 632-8.
- Cheung, A. K. M., Hoggan, M. D., Hauswirth, W. W., and Berns, K. I. (1980). Integration of the adeno-associated virus genome into cellular DNA in latently infected Human Detroit 6 cells. *Journal of Virology* **33**(2), 739-748.
- Chiorini, J. A., Yang, L., Safer, B., and Kotin, R. M. (1995). Determination of adeno-associated virus Rep68 and Rep78 binding sites by random sequence oligonucleotide selection. *Journal of Virology* **69**(11), 7334-7338.
- Chirmule, N., Propert, K., Magosin, S., Qian, Y., Qian, R., and Wilson, J. (1999). Immune responses to adenovirus and adeno-associated virus in humans. *Gene Ther* **6**(9), 1574-83.
- Conrad, C. K., Allen, S. S., Afione, S. A., Reynolds, T. C., Beck, S. E., Fee-Maki, M., Barraza-Ortiz, X., Adams, R., Askin, F. B., Carter, B. J., Guggino, W. B., and Flotte, T. R. (1996). Safety of single-dose administration of an adeno-associated virus (AAV)-CFTR vector in the primate lung. *Gene Therapy* **3**(8), 658-668.
- Davidson, B. L., Stein, C. S., Heth, J. A., Martins, I., Kotin, R. M., Derksen, T. A., Zabner, J., Ghodsi, A., and Chiorini, J. A. (2000). Recombinant adeno-associated virus type 2, 4, and 5 vectors: transduction of variant cell types and regions in the mammalian central nervous system. *Proc Natl Acad Sci U S A* **97**(7), 3428-32.
- Davis, M. D., Wu, J., and Owens, R. A. (2000). Mutational analysis of adeno-associated virus type 2 Rep68 protein endonuclease activity on partially single-stranded substrates. *J Virol* **74**(6), 2936-42.
- de la Maza, L. M., and Carter, B. J. (1980). Molecular structure of adeno-associated virus variant DNA. *J Biol Chem* **255**(7), 3194-203.
- de la Maza, L. M., and Carter, B. J. (1981). Inhibition of adenovirus oncogenicity in hamsters by adeno-associated virus DNA. *J. Natl. Cancer Inst.* **67**(6), 1323-1326.

- Donahue, B. A., McArthur, J. G., Spratt, S. K., Bohl, D., Lagarde, C., Sanchez, L., Kaspar, B. A., Sloan, B. A., Lee, Y. L., Danos, O., and Snyder, R. O. (1999). Selective uptake and sustained expression of AAV vectors following subcutaneous delivery. *J Gene Med* **1**(1), 31-42.
- Dong, J.-Y., Fan, P.-D., and Frizzell, R. A. (1996). Quantitative analysis of the packaging capacity of recombinant adeno-associated virus. *Human Gene Therapy* **7**(17), 2101-2112.
- Duan, D., Fisher, K. J., Burda, J. F., and Engelhardt, J. F. (1997). Structural and functional heterogeneity of integrated recombinant AAV genomes. *Virus Research* **48**(1), 41-56.
- Duan, D., Yan, Z., Yue, Y., and Engelhardt, J. F. (1999). Structural analysis of adeno-associated virus transduction circular intermediates. *Virology* **261**(1), 8-14.
- Dutheil, N., Shi, F., Dupressoir, T., and Linden, R. M. (2000). Adeno-associated virus site-specifically integrates into a muscle-specific DNA region. *Proc Natl Acad Sci U S A* **97**(9), 4862-6.
- Ferrari, F. K., Samulski, T., Shenk, T., and Samulski, R. J. (1996). Second-strand synthesis is a rate-limiting step for efficient transduction by recombinant adeno-associated virus vectors. *J Virol* **70**(5), 3227-3234.
- Fisher, K. J., Gao, G. P., Weitzman, M. D., DeMatteo, R., Burda, J. F., and Wilson, J. M. (1996). Transduction with recombinant adeno-associated virus for gene therapy is limited by leading-strand synthesis. *J Virol* **70**(1), 520-32.
- Fisher, K. J., Jooss, K., Alston, J., Yang, Y., Haecker, S. E., High, K., Pathak, R., Raper, S. E., and Wilson, J. M. (1997). Recombinant adeno-associated virus for muscle directed gene therapy. *Nature Medicine* **3**(3), 306-312.
- Flotte, T. R., Afione, S. A., and Zeitlin, P. L. (1994). Adeno-associated virus vector gene expression occurs in nondividing cells in the absence of vector DNA integration. *Am. J. Respir. Cell Mol. Biol.* **11**(5), 517-521.
- Friedman-Einat, M., Grossman, Z., Mileguir, F., Smetana, Z., Ashkenazi, M., Barkai, G., Varsano, N., Glick, E., and Mendelson, E. (1997). Detection of adeno-associated virus type 2 sequences in the human genital tract. *J Clin Microbiol* **35**(1), 71-8.
- Gao, G. P., Alvira, M. R., Wang, L., Calcedo, R., Johnston, J., and Wilson, J. M. (2002). Novel adeno-associated viruses from rhesus monkeys as vectors for human gene therapy. *Proc Natl Acad Sci U S A* **99**(18), 11854-9.
- Georg-Fries, B., Biederlack, S., Wolf, J., and zur Hausen, H. (1984). Analysis of proteins, helper dependence, and seroepidemiology of a new human parvovirus. *Virology* **134**(1), 64-71.
- Giraud, C., Winocour, E., and Berns, K. I. (1994). Site-specific integration by adeno-associated virus is directed by a cellular DNA sequence. *Proc Natl Acad Sci U S A* **91**(21), 10039-10043.
- Giraud, C., Winocour, E., and Berns, K. I. (1995). Recombinant junctions formed by site-specific integration of adeno-associated virus into an episome. *J Virol* **69**(11), 6917-6924.
- Grifman, M., Chen, N. N., Gao, G. P., Cathomen, T., Wilson, J. M., and Weitzman, M. D. (1999). Overexpression of cyclin A inhibits augmentation of recombinant adeno-associated virus transduction by the adenovirus E4orf6 protein. *J Virol* **73**(12), 10010-9.
- Grimm, D. (2002). Production methods for gene transfer vectors based on adeno-associated virus serotypes. *Methods* **28**(2), 146-57.
- Grimm, D., Kern, A., Rittner, K., and Kleinschmidt, J. A. (1998). Novel tools for production and purification of recombinant adenoassociated virus vectors. *Hum Gene Ther* **9**(18), 2745-60.
- Grossman, Z., Mendelson, E., Brok-Simoni, F., Mileguir, F., Leitner, Y., Rechavi, G., and Ramot, B. (1992). Detection of adeno-associated virus type 2 in human peripheral blood cells. *J Gen Virol* **73**(Pt 4), 961-6.

- Guy, J., Qi, X., Muzyczka, N., and Hauswirth, W. W. (1999). Reporter expression persists 1 year after adeno-associated virus-mediated gene transfer to the optic nerve. *Arch. Ophthalmol.* **117**(7), 929-37.
- Halbert, C. L., Rutledge, E. A., Allen, J. M., Russell, D. W., and Miller, A. D. (2000). Repeat transduction in the mouse lung by using adeno-associated virus vectors with different serotypes. *J Virol* **74**(3), 1524-32.
- Hanahan, D. (1983). Studies on transformation of *Escherichia coli* with plasmids. *J Mol Biol* **166**(4), 557-80.
- Hauswirth, W. W., and Berns, K. I. (1977). Origin and termination of adeno-associated virus DNA replication. *Virology* **78**, 488-499.
- Hauswirth, W. W., and Berns, K. I. (1979). Adeno-associated virus DNA replication: nonunit-length molecules. *Virology* **93**, 57-68.
- Heilbronn, R., Bürkle, A., Stephan, S., and zur Hausen, H. (1990). The adeno-associated virus *rep* gene suppresses herpes simplex virus-induced DNA-amplification. *J Virol* **64**(6), 3012-3018.
- Heilbronn, R., Engstler, M., Weger, S., Krahn, A., Schetter, C., and Boshart, M. (2003). ssDNA-dependent colocalization of adeno-associated virus Rep and herpes simplex virus ICP8 in nuclear replication domains. *Nucleic Acids Res* **31**(21), 6206-13.
- Heister, T., Heid, I., Ackermann, M., and Fraefel, C. (2002). Herpes Simplex Virus Type 1/Adeno-Associated Virus Hybrid Vectors Mediate Site-Specific Integration at the Adeno-Associated Virus Preintegration Site, AAVS1, on Human Chromosome 19. *J Virol* **76**(14), 7163-73.
- Hermonat, P. L. (1991). Inhibition of H-ras expression by the adeno-associated virus Rep78 transformation suppressor gene product. *Cancer Research* **51**(13), 3373-3377.
- Hermonat, P. L. (1992). Inhibition of bovine papillomavirus plasmid DNA replication by adeno-associated virus. *Virology* **189**(1), 329-333.
- Hermonat, P. L. (1994a). Adeno-associated virus inhibits human papillomavirus type 16: A viral interaction implicated in cervical cancer. *Cancer Research* **54**(8), 2278-2281.
- Hermonat, P. L. (1994b). Down-regulation of the human *c-fos* and *c-myc* proto-oncogene promoters by adeno-associated virus Rep78. *Cancer Letters* **81**(2), 129-136.
- Hermonat, P. L., Labow, M. A., Wright, R., Berns, K. I., and Muzyczka, N. (1984). Genetics of adeno-associated virus: isolation and preliminary characterization of adeno-associated virus type 2 mutants. *Journal of Virology* **51**(2), 329-339.
- Hermonat, P. L., and Muzyczka, N. (1984). Use of adeno-associated virus as a mammalian DNA cloning vector: Transduction of neomycin resistance into mammalian tissue culture cells. *Proceedings of the National Academy of Sciences USA* **81**(20), 6466-6470.
- Hermonat, P. L., Santin, A. D., and Batchu, R. B. (1996). The adeno-associated virus Rep78 major regulatory/transformation suppressor protein binds cellular Sp1 *in vitro* and evidence of a biological effect. *Cancer Research* **56**(22), 5299-5304.
- Hermonat, P. L., Santin, A. D., Batchu, R. B., and Zhan, D. (1998). The adeno-associated virus Rep78 major regulatory protein binds the cellular TATA-binding protein *in vitro* and *in vivo*. *Virology* **245**(1), 120-7.
- Herzog, R. W., Hagstrom, J. N., Kung, S.-H., Tai, S. J., Wilson, J. M., Fisher, K. J., and High, K. A. (1997). Stable gene transfer and expression of human blood coagulation factor IX after intramuscular injection of recombinant adeno-associated virus. *Proceedings of the National Academy of Sciences USA* **94**(11), 5804-5809.
- Hoggan, M. D., Blacklow, N. R., and Rowe, W. P. (1966). Studies of small DNA viruses found in various adenovirus preparations: physical, biological, and immunological characteristics. *Proc. Natl. Acad. Sci. (USA)* **55**(6), 1467-1474.

- Hörer, M., Weger, S., Butz, K., Hoppe-Seyler, F., Geisen, C., and Kleinschmidt, J. A. (1995). Mutational analysis of adeno-associated virus Rep protein-mediated inhibition of heterologous and homologous promoters. *Journal of Virology* **69**(9), 5485-5496.
- Huang, M. M., and Hearing, P. (1989). Adenovirus early region 4 encodes two gene products with redundant effects in lytic infection. *J Virol* **63**(6), 2605-15.
- Hüser, D., and Heilbronn, R. (2003). Adeno-associated virus integrates site-specifically into human chromosome 19 in either orientation and with equal kinetics and frequency. *J Gen Virol* **84**, 133-137.
- Hüser, D., Weger, S., and Heilbronn, R. (2002). Kinetics and Frequency of Adeno-Associated Virus Site-Specific Integration into Human Chromosome 19 Monitored by Quantitative Real-Time PCR. *J Virol* **76**(15), 7554-7559.
- Hüser, D., Weger, S., and Heilbronn, R. (2003). Packaging of Human Chromosome 19-Specific Adeno-Associated Virus (AAV) Integration Sites in AAV Virions during AAV Wild-Type and Recombinant AAV Vector Production. *J Virol* **77**(8), 4881-7.
- Im, D.-S., and Muzyczka, N. (1990). The AAV origin-binding protein Rep68 is an ATP-dependent site-specific endonuclease with helicase activity. *Cell* **61**, 447-457.
- Janik, J. E., Huston, M. M., Cho, K., and Rose, J. A. (1989). Efficient synthesis of adeno-associated virus structural proteins requires both adenovirus DNA-binding protein and VA I RNA. *Virology* **168**(2), 320-329.
- Janik, J. E., Huston, M. M., and Rose, J. A. (1981). Locations of adenovirus genes required for the replication of adenovirus-associated virus. *Proc Natl Acad Sci U S A* **78**(3), 1925-9.
- Jay, F. T., Laughlin, C. A., and Carter, B. J. (1981). Eukaryotic translational control: adeno-associated virus protein synthesis is affected by a mutation in the adenovirus DNA-binding protein. *Proceedings of the National Academy of Sciences USA* **78**(5), 2927-2931.
- Johnston, K. M., Jacoby, D., Pechan, P. A., Fraefel, C., Borghesani, P., Schuback, D., Dunn, R. J., Smith, F. I., and Breakefield, X. O. (1997). HSV/AAV hybrid amplicon vectors extend transgene expression in human glioma cells. *Human Gene Therapy* **8**(3), 359-370.
- Katz, E., and Carter, B. J. (1986). Effect of adeno-associated virus on transformation of NIH 3T3 cells by ras gene and on tumorigenicity of an NIH 3T3 transformed cell line. *Cancer Res* **46**(6), 3023-6.
- Kearns, W. G., Afione, S. A., Fulmer, S. B., Pang, M. G., Erikson, D., Egan, M., Landrum, M. J., Flotte, T. R., and Cutting, G. R. (1996). Recombinant adeno-associated virus (AAV-CFTR) vectors do not integrate in a site-specific fashion in an immortalized epithelial cell line. *Gene Therapy* **3**(9), 748-755.
- Khleif, S. N., Myers, T., Carter, B. J., and Trempe, J. P. (1991). Inhibition of cellular transformation by the adeno-associated virus rep gene. *Virology* **181**(2), 738-741.
- King, J. A., Dubielzig, R., Grimm, D., and Kleinschmidt, J. A. (2001). DNA helicase-mediated packaging of adeno-associated virus type 2 genomes into preformed capsids. *Embo J* **20**(12), 3282-91.
- Kirschstein, R. L., Smith, K. O., and Peters, E. A. (1968). Inhibition of adenovirus 12 oncogenicity by adeno-associated virus. *Proc. Soc. Exp. Biol. Med.* **128**(3), 670-673.
- Klein-Bauernschmitt, P., zur Hausen, H., and Schlehofer, J. R. (1992). Induction of differentiation-associated changes in established human cells by infection with adeno-associated virus type 2. *Journal of Virology* **66**(7), 4191-4200.
- Kleinschmidt, J. A., Möhler, M., Weindler, F., and Heilbronn, R. (1995). Sequence elements of the adeno-associated virus *rep*-gene required for suppression of herpes-simplex virus induced DNA amplification. *Virology* **206**(1), 254-262.

- Kotin, R. M., and Berns, K. I. (1989). Organization of adeno-associated virus DNA in latently infected Detroit 6 cells. *Virology* **170**(2), 460-467.
- Kotin, R. M., Linden, R. M., and Berns, K. I. (1992). Characterization of a preferred site on human chromosome 19q for integration of adeno-associated virus DNA by non-homologous recombination. *Embo J* **11**(13), 5071-5078.
- Kotin, R. M., Menninger, J. C., Ward, D. C., and Berns, K. I. (1991). Mapping and direct visualization of a region-specific viral DNA integration site on chromosome 19q13-qter. *Genomics* **10**(3), 831-834.
- Kotin, R. M., Siniscalco, M., Samulski, R. J., Zhu, X. D., Hunter, L., Laughlin, C. A., McLaughlin, S., Muzyczka, N., Rocchi, M., and Berns, K. I. (1990). Site-specific integration by adeno-associated virus. *Proc Natl Acad Sci U S A* **87**(6), 2211-2215.
- Kyöstiö, S. R. M., Owens, R. A., Weitzman, M. D., Antoni, B. A., Chejanovsky, N., and Carter, B. J. (1994). Analysis of adeno-associated virus (AAV) wild-type and mutant Rep proteins for their abilities to negatively regulate AAV p5 and p19 mRNA levels. *J Virol* **68**(5), 2947-2957.
- Kyöstiö, S. R. M., Wonderling, R. S., and Owens, R. A. (1995). Negative regulation of the adeno-associated virus (AAV)_{P5} promoter involves both the P₅ Rep binding site and the consensus ATP-binding motif of the AAV Rep68 protein. *Journal of Virology* **69**(11), 6787-6796.
- Labow, M. A., and Berns, K. I. (1988). The adeno-associated virus *rep* gene inhibits replication of an adeno-associated virus/simian virus 40 hybrid genome in cos-7 cells. *Journal of Virology* **62**(5), 1705-1712.
- Labow, M. A., Graf, L. H., Jr., and Berns, K. I. (1987). Adeno-associated virus gene expression inhibits cellular transformation by heterologous genes. *Molecular and Cellular Biology* **7**(4), 1320-1325.
- Labow, M. A., Hermonat, P. L., and Berns, K. I. (1986). Positive und negative autoregulation of the adeno-associated virus type 2 genome. *Journal of Virology* **60**(1), 251-258.
- Lamartina, S., Ciliberto, G., and Toniatti, C. (2000). Selective cleavage of AAVS1 substrates by the adeno-associated virus type 2 rep68 protein is dependent on topological and sequence constraints. *J Virol* **74**(19), 8831-42.
- Lamartina, S., Roscilli, G., Rinaudo, D., Delmastro, P., and Toniatti, C. (1998). Lipofection of purified adeno-associated virus Rep68 protein: toward a chromosome-targeting nonviral particle. *Journal of Virology* **72**(9), 7653-8.
- Lamartina, S., Sporeno, E., Fattori, E., and Toniatti, C. (2000). Characteristics of the adeno-associated virus preintegration site in human chromosome 19: open chromatin conformation and transcription-competent environment. *J Virol* **74**(16), 7671-7.
- Laughlin, C. A., Cardellicchio, C. B., and Coon, H. C. (1986). Latent infection of KB cells with adeno-associated virus type 2. *J Virol* **60**(2), 515-24.
- Laughlin, C. A., Jones, N., and Carter, B. J. (1982). Effect of deletions in adenovirus early region 1 genes upon replication of adeno-associated virus. *Journal of Virology* **41**(3), 868-876.
- Laughlin, C. A., Myers, M. W., Risin, D. L., and Carter, B. J. (1979). Defective-interfering particles of the human parvovirus adeno-associated virus. *Virology* **94**(1), 162-74.
- Laughlin, C. A., Tratschin, J. D., Coon, H., and Carter, J. B. (1983). Cloning of infectious adeno-associated virus genomes in bacterial plasmids. *Gene* **23**(1), 65-73.
- Lebkowski, J. S., McNally, M. M., Okarma, T. B., and Lerch, L. B. (1988). Adeno-associated virus: a vector system for efficient introduction and integration of DNA into a variety of mammalian cell types. *Mol Cell Biol* **8**(10), 3988-96.
- Levine, A. J. (1993). "Viren." Spektrum Akademischer Verlag, Berlin.

- Linden, R. M., Ward, P., Giraud, C., Winocour, E., and Berns, K. I. (1996). Site-specific integration by adeno-associated virus. *Proc Natl Acad Sci U S A* **93**(21), 11288-11294.
- Linden, R. M., Winocour, E., and Berns, K. I. (1996). The recombination signals for adeno-associated virus site-specific integration. *Proc Natl Acad Sci U S A* **93**(15), 7966-7972.
- Linden, R. M., and Woo, S. L. (1999). AAVant-garde gene therapy. *Nat Med* **5**(1), 21-2.
- Lusby, E. W., and Berns, K. I. (1982). Mapping of the 5' termini of two adeno-associated virus 2 RNAs in the left half of the genome. *J Virol* **41**(2), 518-26.
- Lusby, E. W., Bohensky, R. A., and Berns, K. I. (1981). Inverted terminal repetition in adeno-associated virus DNA: independence of the orientation of either end of the genome. *Journal of Virology* **37**(3), 1083-1086.
- Lusby, E. W., Fife, K. H., and Berns, K. I. (1980). Nucleotide sequence of the inverted terminal repetition in adeno-associated virus DNA. *Journal of Virology* **34**, 402-409.
- Macville, M., Schrock, E., Padilla-Nash, H., Keck, C., Ghadimi, B. M., Zimonjic, D., Popescu, N., and Ried, T. (1999). Comprehensive and definitive molecular cytogenetic characterization of HeLa cells by spectral karyotyping. *Cancer Res* **59**(1), 141-50.
- Malik, A. K., Monahan, P. E., Allen, D. L., Chen, B. G., Samulski, R. J., and Kurachi, K. (2000). Kinetics of recombinant adeno-associated virus-mediated gene transfer. *J Virol* **74**(8), 3555-65.
- Mayor, H. D., Drake, S., Stahmann, J., and Mumford, D. M. (1976). Antibodies to adeno-associated satellite virus and herpes simplex in sera from cancer patients and normal adults. *Am. J. Obstet. Gynecol.* **126**(1), 100-104.
- Mayor, H. D., Houlditch, G. S., and Mumford, D. M. (1973). Influence of adeno-associated satellite virus on adenovirus-induced tumors in hamsters. *Nature New Biology* **241**(106), 44-46.
- McCarty, D. M., Christensen, M., and Muzyczka, N. (1991). Sequences required for coordinate induction of adeno-associated virus p19 and p40 promoters by rep protein. *Journal of Virology* **65**(6), 2936-2945.
- McCarty, D. M., Pereira, D. J., Zolotukhin, I., Zhou, X., Ryan, J. H., and Muzyczka, N. (1994a). Identification of linear DNA sequences that specifically bind the adeno-associated virus Rep protein. *Journal of Virology* **68**(8), 4988-4997.
- McCarty, D. M., Ryan, J. H., Zolotukhin, S., Zhou, X., and Muzyczka, N. (1994b). Interaction of the adeno-associated virus Rep protein with a sequence within the A palindrome of the viral terminal repeat. *Journal of Virology* **68**(8), 4998-5006.
- McLaughlin, S. K., Collis, P., Hermonat, P. L., and Muzyczka, N. (1988). Adeno-associated virus general transduction vectors: Analysis of proviral structures. *Journal of Virology* **62**(6), 1963-1973.
- McPherson, R. A., Rosenthal, L. J., and Rose, J. A. (1985). Human cytomegalovirus completely helps adeno-associated virus replication. *Virology* **147**(1), 217-222.
- Mendelson, E., Trempe, J. P., and Carter, B. J. (1986). Identification of the *trans*-acting rep proteins of adeno-associated virus by antibodies to a synthetic oligopeptide. *J Virol* **60**(3), 823-832.
- Meneses, P., Berns, K. I., and Winocour, E. (2000). DNA sequence motifs which direct adeno-associated virus site-specific integration in a model system. *J Virol* **74**(13), 6213-6.
- Miller, D. G., Rutledge, E. A., and Russell, D. W. (2002). Chromosomal effects of adeno-associated virus vector integration. *Nat Genet* **30**(2), 147-8.
- Mishra, L., and Rose, J. A. (1990). Adeno-associated virus DNA replication is induced by genes that are essential for HSV-1 DNA synthesis. *Virology* **179**(2), 632-639.

- Mizuno, M., and Yoshida, J. (1998). Improvement of transduction efficiency of recombinant adeno-associated virus vector by entrapment in multilamellar liposomes. *Jpn J Cancer Res* **89**(4), 352-4.
- Modrow, S., and Falke, D. (1997). "Molekulare Virologie." Spektrum Akademischer Verlag.
- Monahan, P. E., Jooss, K., and Sands, M. S. (2002). Safety of adeno-associated virus gene therapy vectors: a current evaluation. *Expert Opin Drug Saf* **1**(1), 79-91.
- Monahan, P. E., and Samulski, R. J. (2000). AAV vectors: is clinical success on the horizon? *Gene Therapy* **7**(1), 24-30.
- Muzyczka, N. (1992). Use of adeno-associated virus as a general transduction vector for mammalian cells. *Current Topics in Microbiology and Immunology* **158**, 97-129.
- Muzyczka, N., and Berns, K. I. (2001). Parvoviridae: The viruses and their replication. In "Fields Virology" (P. M. Howley, Ed.), Vol. 2, pp. 2327-2359. 2 vols. Lippincott, Philadelphia.
- Nakai, H., Montini, E., Fuess, S., Storm, T. A., Grompe, M., and Kay, M. A. (2003). AAV serotype 2 vectors preferentially integrate into active genes in mice. *Nat Genet* **34**(3), 297-302.
- Nakai, H., Storm, T. A., and Kay, M. A. (2000). Increasing the size of rAAV-mediated expression cassettes in vivo by intermolecular joining of two complementary vectors [see comments]. *Nat Biotechnol* **18**(5), 527-32.
- Ni, T. H., McDonald, W. F., Zolotukhin, I., Melendy, T., Waga, S., Stillman, B., and Muzyczka, N. (1998). Cellular proteins required for adeno-associated virus DNA replication in the absence of adenovirus coinfection. *J Virol* **72**(4), 2777-87.
- Ogston, P., Raj, K., and Beard, P. (2000). Productive replication of adeno-associated virus can occur in human papillomavirus type 16 (HPV-16) episome-containing keratinocytes and is augmented by the HPV-16 E2 protein. *J Virol* **74**(8), 3494-504.
- Ostrove, J. M., Duckworth, D. H., and Berns, K. I. (1981). Inhibition of adenovirus-transformed cell oncogenicity by adeno-associated virus. *Virology* **113**(2), 521-533.
- Owens, R. A., Weitzman, M. D., Kyöstiö, S. R. M., and Carter, B. J. (1993). Identification of a DNA-binding domain in the amino terminus of adeno-associated virus rep proteins. *Journal of Virology* **67**(2), 997-1005.
- Palombo, F., Monciotti, A., Recchia, A., Cortese, R., Ciliberto, G., and La Monica, N. (1998). Site-specific integration in mammalian cells mediated by a new hybrid baculovirus-adeno-associated virus vector. *J Virol* **72**(6), 5025-34.
- Pereira, D. J., McCarty, D. M., and Muzyczka, N. (1997). The adeno-associated virus (AAV) Rep protein acts as both a repressor and an activator to regulate AAV transcription during a productive infection. *J Virol* **71**(2), 1079-88.
- Pereira, D. J., and Muzyczka, N. (1997a). The adeno-associated virus type 2 p40 promoter requires a proximal Sp1 interaction and a p19 CArG-like element to facilitate Rep transactivation. *Journal of Virology* **71**(6), 4300-4309.
- Pereira, D. J., and Muzyczka, N. (1997b). The cellular transcription factor SP1 and an unknown cellular protein are required to mediate Rep protein activation of the adeno-associated virus p19 promoter. *Journal of Virology* **71**(3), 1747-1756.
- Philpott, N. J., Giraud-Wali, C., Dupuis, C., Gomos, J., Hamilton, H., Berns, K. I., and Falck-Pedersen, E. (2002a). Efficient Integration of Recombinant Adeno-Associated Virus DNA Vectors Requires a p5-rep Sequence in cis. *J Virol* **76**(11), 5411-21.

- Philpott, N. J., Gomos, J., Berns, K. I., and Falck-Pedersen, E. (2002b). A p5 integration efficiency element mediates Rep-dependent integration into AAVS1 at chromosome 19. *Proc Natl Acad Sci U S A* **99**(19), 12381-5.
- Pieroni, L., Fipaldini, C., Monciotti, A., Cimini, D., Sgura, A., Fattori, E., Epifano, O., Cortese, R., Palombo, F., and La Monica, N. (1998). Targeted integration of adeno-associated virus-derived plasmids in transfected human cells. *Virology* **249**(2), 249-59.
- Pruchnic, R., Cao, B., Peterson, Z. Q., Xiao, X., Li, J., Samulski, R. J., Epperly, M., and Huard, J. (2000). The use of adeno-associated virus to circumvent the maturation-dependent viral transduction of muscle fibers. *Hum Gene Ther* **11**(4), 521-36.
- Qing, K., Mah, C., Hansen, J., Zhou, S., Dwarki, V., and Srivastava, A. (1999). Human fibroblast growth factor receptor 1 is a co-receptor for infection by adeno-associated virus 2 [see comments]. *Nat Med* **5**(1), 71-7.
- Recchia, A., Parks, R. J., Lamartina, S., Toniatti, C., Pieroni, L., Palombo, F., Ciliberto, G., Graham, F. L., Cortese, R., La Monica, N., and Colloca, S. (1999). Site-specific integration mediated by a hybrid adenovirus/adeno-associated virus vector. *Proc Natl Acad Sci U S A* **96**(6), 2615-20.
- Redemann, B. E., Mendelson, E., and Carter, B. J. (1989). Adeno-associated virus rep protein synthesis during productive infection. *J Virol* **63**(2), 873-882.
- Richardson, W. D., and Anderson, C. W. (1984). Translation of adenovirus 2 late mRNAs microinjected into cultured African green monkey kidney cells. *J Virol* **51**(2), 559-62.
- Rizzuto, G., Gorgoni, B., Cappelletti, M., Lazzaro, D., Gloaguen, I., Poli, V., Sgura, A., Cimini, D., Ciliberto, G., Cortese, R., Fattori, E., and La Monica, N. (1999). Development of animal models for adeno-associated virus site-specific integration. *J Virol* **73**(3), 2517-26.
- Russell, D. W. (2003). AAV loves an active genome. *Nat Genet* **34**(3), 241-2.
- Russell, D. W., and Hirata, R. K. (1998). Human gene targeting by viral vectors. *Nat Genet* **18**(4), 325-30.
- Russell, D. W., Miller, A. D., and Alexander, I. E. (1994). Adeno-associated virus vectors preferentially transduce cells in S phase. *Proceedings of the National Academy of Sciences USA* **91**(19), 8915-8919.
- Rutledge, E. A., and Russell, D. W. (1997). Adeno-associated virus vector integration junctions. *Journal of Virology* **71**(11), 8429-8436.
- Ryan, J. H., Zolotukhin, S., and Muzyczka, N. (1996). Sequence requirements for binding of Rep68 to the adeno-associated virus terminal repeats. *Journal of Virology* **70**(3), 1542-1553.
- Sambrook, J., Fritsch, E. F., and Maniatis, T. (1989). "Molecular cloning, a laboratory manual." 2nd ed. 3 vols. Cold Spring Harbor Laboratory Press.
- Samulski, R. J. (1993). Adeno-associated virus: integration at a specific chromosomal locus. *Current Opinion in Genetics and Development* **3**(1), 74-80.
- Samulski, R. J., Berns, K. I., Tan, M., and Muzyczka, N. (1982). Cloning of adeno-associated virus into pBR322: rescue of intact virus from the recombinant plasmid in human cells. *Proc Natl Acad Sci U S A* **79**(6), 2077-81.
- Samulski, R. J., Chang, L.-S., and Shenk, T. (1987). A recombinant plasmid from which an infectious adeno-associated virus genome can be excised *in vitro* and its use to study viral replication. *J Virol* **61**(10), 3096-3101.
- Samulski, R. J., and Shenk, T. (1988). Adenovirus E1B 55M_r polypeptide facilitates timely cytoplasmic accumulation of adeno-associated virus mRNAs. *Journal of Virology* **62**(1), 206-210.

- Samulski, R. J., Srivastava, A., Berns, K. I., and Muzyczka, N. (1983). Rescue of adeno-associated virus from recombinant plasmids: gene correction within the terminal repeats of AAV. *Cell* **33**(1), 135-43.
- Samulski, R. J., Zhu, X., Xiao, X., Brook, J. D., Housman, D. E., Epstein, N., and Hunter, L. A. (1991). Targeted integration of adeno-associated virus (AAV) into human chromosome 19 [published erratum appears in *EMBO J* 1992 Mar;11(3):1228]. *EMBO J* **10**(12), 3941-3950.
- Senapathy, P., Tratschin, J. D., and Carter, B. J. (1984). Replication of adeno-associated virus DNA. Complementation of naturally occurring rep- mutants by a wild-type genome or an ori- mutant and correction of terminal palindrome deletions. *J Mol Biol* **179**(1), 1-20.
- Senior, K. (2002). Adeno-associated virus vectors under scrutiny. *Lancet* **359**(9313), 1216.
- Shelling, A. N., and Smith, M. G. (1994). Targeted integration of transfected and infected adeno-associated virus vectors containing the neomycin resistance gene. *Gene Therapy* **1**(3), 165-169.
- Smith, I. L., Cherrington, J. M., Jiles, R. E., Fuller, M. D., Freeman, W. R., and Spector, S. A. (1997). High-level resistance of cytomegalovirus to ganciclovir is associated with alterations in both the UL97 and DNA polymerase genes. *Journal of Infectious Diseases* **176**(1), 69-77.
- Smith, R. H., and Kotin, R. M. (2000). An adeno-associated virus (AAV) initiator protein, Rep78, catalyzes the cleavage and ligation of single-stranded AAV ori DNA. *J Virol* **74**(7), 3122-9.
- Snyder, R. O., Im, D.-S., and Muzyczka, N. (1990). Evidence for covalent attachment of the adeno-associated virus (AAV) rep protein to the ends of the AAV genome. *J Virol* **64**(12), 6204-6213.
- Snyder, R. O., Im, D.-S., Ni, T., Xiao, X., Samulski, R. J., and Muzyczka, N. (1993). Features of the adeno-associated virus origin involved in substrate recognition by the viral Rep protein. *J Virol* **67**(10), 6096-6104.
- Snyder, R. O., Miao, C. H., Patijn, G. A., Spratt, S. K., Danos, O., Nagy, D., Gown, A. M., Winther, B., Meuse, L., Cohen, L. K., Thompson, A. R., and Kay, M. A. (1997). Persistent and therapeutic concentrations of human factor IX in mice after hepatic gene transfer of recombinant AAV vectors. *Nature Genetics* **16**(3), 270-276.
- Snyder, R. O., Samulski, R. J., and Muzyczka, N. (1990). In vitro resolution of covalently joined AAV chromosome ends. *Cell* **60**, 105-113.
- Sprecher-Goldberger, S., Thiry, L., Lefèbvre, N., Dekegel, D., and de Halleux, F. (1971). Complement-fixation antibodies to adenovirus-associated viruses, adenoviruses, cytomegaloviruses and herpes simplex viruses in patients with tumors and in control individuals. *Am. J. Epidemiol.* **94**(4), 351-358.
- Srivastava, A., Lusby, E. W., and Berns, K. I. (1983). Nucleotide sequence and organization of the adeno-associated virus 2 genome. *J Virol* **45**(2), 555-564.
- Starke, G., and Hlinak, P. (1974). "Grundriß der allgemeinen Virologie." Gustav Fischer Verlag, Jena.
- Stracker, T. H., Cassell, G. D., Ward, P., Loo, Y. M., van Breukelen, B., Carrington-Lawrence, S. D., Hamatake, R. K., van der Vliet, P. C., Weller, S. K., Melendy, T., and Weitzman, M. D. (2004). The Rep protein of adeno-associated virus type 2 interacts with single-stranded DNA-binding proteins that enhance viral replication. *J Virol* **78**(1), 441-53.
- Straus, S. E., Ginsberg, H. S., and Rose, J. A. (1976). DNA-minus temperature-sensitive mutants of adenovirus type 5 help adenovirus-associated virus replication. *Journal of Virology* **17**, 140-148.
- Straus, S. E., Sebring, E. D., and Rose, J. A. (1976). Concatemers of alternating plus and minus strands are intermediates in adenovirus-associated virus DNA synthesis. *Proc Natl Acad Sci U S A* **73**(3), 742-6.
- Summerford, C., Bartlett, J. S., and Samulski, R. J. (1999). AlphaVbeta5 integrin: a co-receptor for adeno-associated virus type 2 infection [see comments]. *Nat Med* **5**(1), 78-82.

- Summerford, C., and Samulski, R. J. (1998). Membrane-associated heparan sulfate proteoglycan is a receptor for adeno-associated virus type 2 virions. *Journal of Virology* **72**(2), 1438-1445.
- Sun, L., Li, J., and Xiao, X. (2000). Overcoming adeno-associated virus vector size limitation through viral DNA heterodimerization. *Nat Med* **6**(5), 599-602.
- Surosky, R. T., Urabe, M., Godwin, S. G., McQuiston, S., Kurtzman, G. J., Ozawa, K., and Natsoulis, G. (1997). Adeno-associated virus Rep proteins target DNA sequences to a unique locus in the human genome. *Journal of Virology* **71**(10), 7951-7959.
- Tattersall, P., and Ward, D. C. (1976). Rolling hairpin model for replication of parvovirus and linear chromosomal DNA. *Nature* **263**(5573), 106-9.
- Thomson, B. J., Weindler, F. W., Gray, D., Schwaab, V., and Heilbronn, R. (1994). Human herpesvirus 6 (HHV6) is a helper virus for adeno-associated virus type 2 (AAV2) and the rep gene homologue in HHV6 can mediate AAV-2 DNA replication and regulate gene expression. *Virology* **204**(1), 304-311.
- Tratschin, J. D., Miller, I. L., and Carter, B. J. (1984). Genetic analysis of adeno-associated virus: properties of deletion mutants constructed in vitro and evidence for an adeno-associated virus replication function. *Journal of Virology* **51**(3), 611-619.
- Tratschin, J. D., Miller, I. L., Smith, M. G., and Carter, B. J. (1985). Adeno-associated virus vector for high-frequency integration, expression, and rescue of genes in mammalian cells. *Mol Cell Biol* **5**(11), 3251-60.
- Trempe, J. P., and Carter, B. J. (1988). Regulation of adeno-associated virus gene expression in 293 cells: control of mRNA abundance and translation. *Journal of Virology* **62**(1), 68-74.
- Tsunoda, H., Hayakawa, T., Sakuragawa, N., and Koyama, H. (2000). Site-specific integration of adeno-associated virus-based plasmid vectors in lipofected HeLa cells. *Virology* **268**(2), 391-401.
- Urabe, M., Ding, C., and Kotin, R. M. (2002). Insect cells as a factory to produce adeno-associated virus type 2 vectors. *Hum Gene Ther* **13**(16), 1935-43.
- Urcelay, E., Ward, P., Wiener, S. M., Safer, B., and Kotin, R. M. (1995). Asymmetric replication in vitro from a human sequence element is dependent on adeno-associated virus Rep protein. *J Virol* **69**(4), 2038-46.
- Vincent-Lacaze, N., Snyder, R. O., Gluzman, R., Bohl, D., Lagarde, C., and Danos, O. (1999). Structure of adeno-associated virus vector DNA following transduction of the skeletal muscle. *J Virol* **73**(3), 1949-55.
- von Hippel, P. H., and Berg, O. G. (1989). Facilitated target location in biological systems. *J Biol Chem* **264**(2), 675-8.
- Wagner, J. A., Reynolds, T., Moran, M. L., Moss, R. B., Wine, J. J., Flotte, T. R., and Gardner, P. (1998). Efficient and persistent gene transfer of AAV-CFTR in maxillary sinus [letter]. *Lancet* **351**(9117), 1702-3.
- Walz, C., Deprez, A., Dupressoir, T., Dürst, M., Rabreau, M., and Schlehofer, J. R. (1997). Interaction of human papillomavirus type 16 and adeno-associated virus type 2 co-infecting human cervical epithelium. *J Gen Virol* **78**(Pt 6), 1441-1452.
- Walz, C., and Schlehofer, J. R. (1992). Modification of some biological properties of HeLa cells containing adeno-associated virus DNA integrated into chromosome 17. *Journal of Virology* **66**(5), 2990-3002.
- Wang, Y., Camp, S. M., Niwano, M., Shen, X., Bakowska, J. C., Breakefield, X. O., and Allen, P. D. (2002). Herpes simplex virus type 1/adeno-associated virus rep(+) hybrid amplicon vector improves the stability of transgene expression in human cells by site-specific integration. *J Virol* **76**(14), 7150-62.
- Ward, P., and Berns, K. I. (1996). In vitro replication of adeno-associated virus DNA: Enhancement by extracts from adenovirus-infected HeLa cells. *Journal of Virology* **70**(7), 4495-4501.

- Weger, S., Wendland, M., Kleinschmidt, J., and Heilbronn, R. (1999). The adeno-associated virus type 2 regulatory proteins Rep78/Rep68 interact with the transcriptional coactivator PC4. *J Virol* **73**, 260-269.
- Weger, S., Wistuba, A., Grimm, D., and Kleinschmidt, J. A. (1997). Control of adeno-associated virus type 2 Cap gene expression: relative influence of helper virus, terminal repeats, and Rep proteins. *J Virol* **71**(11), 8437-8447.
- Weindler, F. W., and Heilbronn, R. (1991). A subset of herpes simplex virus replication genes provides helper functions for productive adeno-associated virus replication. *J Virol* **65**(5), 2476-2483.
- Weitzman, M. D., Fisher, K. J., and Wilson, J. M. (1996). Recruitment of wild-type and recombinant adeno-associated virus into adenovirus replication centers. *J Virol* **70**(3), 1845-1854.
- Weitzman, M. D., Kyöstiö, S. R. M., Kotin, R. M., and Owens, R. A. (1994). Adeno-associated virus (AAV) Rep proteins mediate complex formation between AAV DNA and its integration site in human DNA. *Proc Natl Acad Sci U S A* **91**(13), 5808-5812.
- Winocour, E., Callahan, M. F., and Huberman, E. (1988). Perturbation of the cell cycle by adeno-associated virus. *Virology* **167**(2), 393-399.
- Wonderling, R. S., and Owens, R. A. (1997). Binding sites for adeno-associated virus Rep proteins within the human genome. *Journal of Virology* **71**(3), 2528-2534.
- Xiao, W., Chirmule, N., Berta, S. C., McCullough, B., Gao, G., and Wilson, J. M. (1999). Gene therapy vectors based on adeno-associated virus type 1. *J Virol* **73**(5), 3994-4003.
- Xiao, W., Warrington, K. H., Jr., Hearing, P., Hughes, J., and Muzyczka, N. (2002). Adenovirus-facilitated nuclear translocation of adeno-associated virus type 2. *J Virol* **76**(22), 11505-17.
- Xiao, X., Li, J., and Samulski, R. J. (1998). Production of high-titer recombinant adeno-associated virus vectors in the absence of helper adenovirus. *Journal of Virology* **72**(3), 2224-2232.
- Xiao, X., Xiao, W., Li, J., and Samulski, R. J. (1997). A novel 165-base-pair terminal repeat sequence is the sole cis requirement for the adeno-associated virus life cycle. *J Virol* **71**(2), 941-8.
- Yakobson, B., Koch, T., and Winocour, E. (1987). Replication of adeno-associated virus in synchronized cells without the addition of a helper virus. *J Virol* **61**(4), 972-81.
- Yan, Z., Zhang, Y., Duan, D., and Engelhardt, J. F. (2000). From the cover: trans-splicing vectors expand the utility of adeno-associated virus for gene therapy [see comments]. *Proc Natl Acad Sci U S A* **97**(12), 6716-21.
- Yang, C. C., Xiao, X., Zhu, X., Ansardi, D. C., Epstein, N. D., Frey, M. R., Matera, A. G., and Samulski, R. J. (1997). Cellular recombination pathways and viral terminal repeat hairpin structures are sufficient for adeno-associated virus integration in vivo and in vitro. *J Virol* **71**(12), 9231-9247.
- Yang, J., Zhou, W., Zhang, Y., Zidon, T., Ritchie, T., and Engelhardt, J. F. (1999). Concatamerization of adeno-associated virus circular genomes occurs through intermolecular recombination. *J Virol* **73**(11), 9468-77.
- Yang, Q., Chen, F., Ross, J., and Trempe, J. P. (1995). Inhibition of cellular and SV40 DNA replication by the adeno-associated virus Rep proteins. *Virology* **207**(1), 246-50.
- Yang, Q., Chen, F., and Trempe, J. P. (1994). Characterization of cell lines that inducibly express the adeno-associated virus Rep proteins. *Journal of Virology* **68**(8), 4847-4856.
- Young, S. M., Jr., McCarty, D. M., Degtyareva, N., and Samulski, R. J. (2000). Roles of adeno-associated virus Rep protein and human chromosome 19 in site-specific recombination. *J Virol* **74**(9), 3953-66.

- Young, S. M., Jr., and Samulski, R. J. (2001). Adeno-associated virus (AAV) site-specific recombination does not require a Rep-dependent origin of replication within the AAV terminal repeat. *Proc Natl Acad Sci U S A* **98**(24), 13525-30.
- Zolotukhin, S., Byrne, B. J., Mason, E., Zolotukhin, I., Potter, M., Chesnut, K., Summerford, C., Samulski, R. J., and Muzyczka, N. (1999). Recombinant adeno-associated virus purification using novel methods improves infectious titer and yield. *Gene Ther* **6**(6), 973-85.
- Zolotukhin, S., Potter, M., Hauswirth, W. W., Guy, J., and Muzyczka, N. (1996). A "humanized" green fluorescent protein cDNA adapted for high-level expression in mammalian cells. *J Virol* **70**(7), 4646-4654.
- Zolotukhin, S., Potter, M., Zolotukhin, I., Sakai, Y., Loiler, S., Fraitas, T. J., Jr., Chiodo, V. A., Phillipsberg, T., Muzyczka, N., Hauswirth, W. W., Flotte, T. R., Byrne, B. J., and Snyder, R. O. (2002). Production and purification of serotype 1, 2, and 5 recombinant adeno-associated viral vectors. *Methods* **28**(2), 158-67.