

References

- Abbas, A. K., Lichtman, A. H., & Pillai, S. (2010). *Cellular and molecular immunology* (6th ed. ed.). Philadelphia, Pa.: Saunders.
- Abdullah-Al-Nahain, Nam, J. A., Mok, H., Lee, Y. K., & Park, S. Y. (2013). Dual-responsive crosslinked pluronic micelles as a carrier to deliver anticancer drug taxol. *Macromolecular Research*, 21(1), 92-99. doi: 10.1007/s13233-013-1011-z
- Aebi, M., Fah, J., Hurt, N., Samuel, C. E., Thomis, D., Bazzigher, L., Pavlovic, J., Haller, O., & Staeheli, P. (1989). cDNA structures and regulation of two interferon-induced human Mx proteins. *Molecular and cellular biology*, 9(11), 5062-5072.
- Almofti, M. R., Harashima, H., Shinohara, Y., Almofti, A., Baba, Y., & Kiwada, H. (2003a). Cationic liposome-mediated gene delivery: biophysical study and mechanism of internalization. *Archives of biochemistry and biophysics*, 410(2), 246-253.
- Almofti, M. R., Harashima, H., Shinohara, Y., Almofti, A., Baba, Y., & Kiwada, H. (2003b). Cationic liposome-mediated gene delivery: biophysical study and mechanism of internalization. *Arch Biochem Biophys*, 410(2), 246-253.
- Alonso, M. A., & Weissman, S. M. (1987). cDNA cloning and sequence of MAL, a hydrophobic protein associated with human T-cell differentiation. *Proceedings of the National Academy of Sciences of the United States of America*, 84(7), 1997-2001.
- Ameyar-Zazoua, M., Rachez, C., Souidi, M., Robin, P., Fritsch, L., Young, R., Morozova, N., Fenouil, R., Descostes, N., Andrau, J. C., Mathieu, J., Hamiche, A., Ait-Si-Ali, S., Muchardt, C., Batsche, E., & Harel-Bellan, A. (2012). Argonaute proteins couple chromatin silencing to alternative splicing. *Nat Struct Mol Biol*, 19(10), 998-1004. doi: 10.1038/nsmb.2373
- Andersen, C. L., Jensen, J. L., & Orntoft, T. F. (2004). Normalization of real-time quantitative reverse transcription-PCR data: a model-based variance estimation approach to identify genes suited for normalization, applied to

- bladder and colon cancer data sets. *Cancer research*, 64(15), 5245-5250. doi: 10.1158/0008-5472.CAN-04-0496
- Aranda-Espinoza, H., Bermudez, H., Bates, F. S., & Discher, D. E. (2001). Electromechanical limits of polymersomes. *Physical review letters*, 87(20), 208301.
- Arikawa, E., Quellhorst, G., Han, Y., Pan, Ho., & Yang, J. (2011). RT2 Profiler™ PCR arrays: pathway-focused gene expression profiling with qRT-PCR. *SA Biosciences Technical Article*, 11.
- Astafieva, I., Maksimova, I., Lukanidin, E., Alakhov, V., & Kabanov, A. (1996). Enhancement of the polycation-mediated DNA uptake and cell transfection with Pluronic P85 block copolymer. *FEBS Lett*, 389(3), 278-280.
- Baldwin, A. S., Jr. (1996). The NF-kappa B and I kappa B proteins: new discoveries and insights. *Annual review of immunology*, 14, 649-683. doi: 10.1146/annurev.immunol.14.1.649
- Bangham, A. D., & Horne, R. W. (1964). Negative Staining of Phospholipids and Their Structural Modification by Surface-Active Agents as Observed in the Electron Microscope. *Journal of molecular biology*, 8, 660-668.
- Barreau, C., Dutertre, S., Paillard, L., & Osborne, H. B. (2006). Liposome-mediated RNA transfection should be used with caution. *RNA*, 12(10), 1790-1793. doi: 10.1261/rna.191706
- Barton, G. M., & Medzhitov, R. (2002). Retroviral delivery of small interfering RNA into primary cells. *Proc Natl Acad Sci U S A*, 99(23), 14943-14945. doi: 10.1073/pnas.242594499
- Baud, V., & Karin, M. (2001). Signal transduction by tumor necrosis factor and its relatives. *Trends in cell biology*, 11(9), 372-377.
- Baulcombe, D. C. (1996). Mechanisms of Pathogen-Derived Resistance to Viruses in Transgenic Plants. *Plant Cell*, 8(10), 1833-1844. doi: 10.1105/tpc.8.10.1833
- Beetz, A., Peter, R. U., Oppel, T., Kaffenberger, W., Rupec, R. A., Meyer, M., van Beuningen, D., Kind, P., & Messer, G. (2000). NF-kappaB and AP-1 are responsible for inducibility of the IL-6 promoter by ionizing radiation in HeLa cells. *International journal of radiation biology*, 76(11), 1443-1453.
- Behr, Jean-Paul. (1997). The Proton Sponge: a Trick to Enter Cells the Viruses Did Not Exploit. *CHIMIA International Journal for Chemistry*, 51(1-2), 34-36.

- Bernstein, E., Caudy, A. A., Hammond, S. M., & Hannon, G. J. (2001). Role for a bidentate ribonuclease in the initiation step of RNA interference. *Nature*, *409*(6818), 363-366. doi: 10.1038/35053110
- Berridge, M. V., Herst, P. M., & Tan, A. S. (2005). Tetrazolium dyes as tools in cell biology: new insights into their cellular reduction. *Biotechnology annual review*, *11*, 127-152. doi: 10.1016/S1387-2656(05)11004-7
- Biswas, S., Wang, X., Morales, A. R., Ahn, H. Y., & Belfield, K. D. (2011). Integrin-targeting block copolymer probes for two-photon fluorescence bioimaging. *Biomacromolecules*, *12*(2), 441-449. doi: 10.1021/bm1012212
- Blanazs, A., Madsen, J., Battaglia, G., Ryan, A. J., & Armes, S. P. (2011). Mechanistic insights for block copolymer morphologies: how do worms form vesicles? *Journal of the American Chemical Society*, *133*(41), 16581-16587. doi: 10.1021/ja206301a
- Boden, D., Pusch, O., Lee, F., Tucker, L., & Ramratnam, B. (2004). Efficient gene transfer of HIV-1-specific short hairpin RNA into human lymphocytic cells using recombinant adeno-associated virus vectors. *Mol Ther*, *9*(3), 396-402. doi: 10.1016/j.ymthe.2003.11.025
- Bories-Azeau, X., Armes, S. P., & van den Haak, H. J. W. (2004). Facile synthesis of zwitterionic diblock copolymers without protecting group chemistry. *Macromolecules*, *37*(7), 2348-2352. doi: Doi 10.1021/Ma035904u
- Boudreau, R. L., & Davidson, B. L. (2010). RNAi therapeutics for CNS disorders. *Brain Res*, *1338*, 112-121. doi: 10.1016/j.brainres.2010.03.038
- Braganca, J., & Civas, A. (1998). Type I interferon gene expression: differential expression of IFN-A genes induced by viruses and double-stranded RNA. *Biochimie*, *80*(8-9), 673-687.
- Burnett, J. C., & Rossi, J. J. (2012). RNA-based therapeutics: current progress and future prospects. *Chem Biol*, *19*(1), 60-71. doi: 10.1016/j.chembiol.2011.12.008
- Caffrey, D. R., Zhao, J., Song, Z., Schaffer, M. E., Haney, S. A., Subramanian, R. R., Seymour, A. B., & Hughes, J. D. (2011). siRNA Off-Target Effects Can Be Reduced at Concentrations That Match Their Individual Potency. *PLoS ONE*, *6*(7), e21503. doi: 10.1371/journal.pone.0021503

- Canton, I., & Battaglia, G. (2012). Endocytosis at the nanoscale. *Chem Soc Rev*, 41(7), 2718-2739. doi: 10.1039/c2cs15309b
- Canton, I., Massignani, M., Patikarnmonthon, N., Chierico, L., Robertson, J., Renshaw, S. A., Warren, N. J., Madsen, J. P., Armes, S. P., Lewis, A. L., & Battaglia, G. (2013). Fully synthetic polymer vesicles for intracellular delivery of antibodies in live cells. *FASEB J*, 27(1), 98-108. doi: 10.1096/fj.12-212183
- Cerutti, L., Mian, N., & Bateman, A. (2000). Domains in gene silencing and cell differentiation proteins: the novel PAZ domain and redefinition of the Piwi domain. *Trends Biochem Sci*, 25(10), 481-482.
- Chaudhuri, A., Battaglia, G., & Golestanian, R. (2011). The effect of interactions on the cellular uptake of nanoparticles. *Physical biology*, 8(4), 046002. doi: 10.1088/1478-3975/8/4/046002
- Chavrier, P., Parton, R. G., Hauri, H. P., Simons, K., & Zerial, M. (1990). Localization of low molecular weight GTP binding proteins to exocytic and endocytic compartments. *Cell*, 62(2), 317-329.
- Chen, F., Castranova, V., & Shi, X. (2001). New insights into the role of nuclear factor-kappaB in cell growth regulation. *The American journal of pathology*, 159(2), 387-397.
- Chen, S., Ge, X., Chen, Y., Lv, N., Liu, Z., & Yuan, W. (2013). Advances with RNA interference in Alzheimer's disease research. *Drug Des Devel Ther*, 7, 117-125. doi: 10.2147/DDDT.S40229
- Chithrani, B. D., Ghazani, A. A., & Chan, W. C. (2006). Determining the size and shape dependence of gold nanoparticle uptake into mammalian cells. *Nano letters*, 6(4), 662-668. doi: 10.1021/nl052396o
- Chono, S., Li, S. D., Conwell, C. C., & Huang, L. (2008). An efficient and low immunostimulatory nanoparticle formulation for systemic siRNA delivery to the tumor. *J Control Release*, 131(1), 64-69. doi: 10.1016/j.jconrel.2008.07.006
- Chu, Y, Masoud, M., & Gebeyehu, G. (2009). US Patent No. US 7479573.
- Ciapetti, G., Cenni, E., Pratelli, L., & Pizzoferrato, A. (1993). In vitro evaluation of cell/biomaterial interaction by MTT assay. *Biomaterials*, 14(5), 359-364.
- Convertine, A. J., Benoit, D. S., Duvall, C. L., Hoffman, A. S., & Stayton, P. S. (2009). Development of a novel endosomolytic diblock copolymer for siRNA delivery. *J Control Release*, 133(3), 221-229. doi: 10.1016/j.jconrel.2008.10.004

- Convertine, A. J., Diab, C., Prieve, M., Paschal, A., Hoffman, A. S., Johnson, P. H., & Stayton, P. S. (2010). pH-Responsive Polymeric Micelle Carriers for siRNA Drugs. *Biomacromolecules*, *11*(11), 2904-2911. doi: 10.1021/bm100652w
- Cureton, D. K., Massol, R. H., Saffarian, S., Kirchhausen, T. L., & Whelan, S. P. J. (2009). Vesicular Stomatitis Virus Enters Cells through Vesicles Incompletely Coated with Clathrin That Depend upon Actin for Internalization. *PLoS Pathog*, *5*(4), e1000394. doi: 10.1371/journal.ppat.1000394
- Curtis, K. M., Gomez, L. A., Rios, C., Garbayo, E., Raval, A. P., Perez-Pinzon, M. A., & Schiller, P. C. (2010). EF1alpha and RPL13a represent normalization genes suitable for RT-qPCR analysis of bone marrow derived mesenchymal stem cells. *BMC molecular biology*, *11*, 61. doi: 10.1186/1471-2199-11-61
- Dalby, B., Cates, S., Harris, A., Ohki, E. C., Tilkins, M. L., Price, P. J., & Ciccarone, V. C. (2004). Advanced transfection with Lipofectamine 2000 reagent: primary neurons, siRNA, and high-throughput applications. *Methods*, *33*(2), 95-103. doi: 10.1016/j.ymeth.2003.11.023
- Davidson, B. L., & McCray, P. B., Jr. (2011). Current prospects for RNA interference-based therapies. *Nat Rev Genet*, *12*(5), 329-340. doi: 10.1038/nrg2968
- de Carvalho, F., Gheysen, G., Kushnir, S., Van Montagu, M., Inze, D., & Castresana, C. (1992). Suppression of beta-1,3-glucanase transgene expression in homozygous plants. *EMBOJ*, *11*(7), 2595-2602.
- Dheda, K., Huggett, J. F., Bustin, S. A., Johnson, M. A., Rook, G., & Zumla, A. (2004). Validation of housekeeping genes for normalizing RNA expression in real-time PCR. *BioTechniques*, *37*(1), 112-114, 116, 118-119.
- Discher, B. M., Won, Y. Y., Ege, D. S., Lee, J. C., Bates, F. S., Discher, D. E., & Hammer, D. A. (1999). Polymersomes: tough vesicles made from diblock copolymers. *Science*, *284*(5417), 1143-1146.
- Dokka, S., Toledo, D., Shi, X., Castranova, V., & Rojanasakul, Y. (2000). Oxygen radical-mediated pulmonary toxicity induced by some cationic liposomes. *Pharmaceutical research*, *17*(5), 521-525.
- Du, J., Tang, Y., Lewis, A. L., & Armes, S. P. (2005). pH-sensitive vesicles based on a biocompatible zwitterionic diblock copolymer. *J Am Chem Soc*, *127*(51), 17982-17983. doi: 10.1021/ja056514l

- Dunn, G. P., Koebel, C. M., & Schreiber, R. D. (2006). Interferons, immunity and cancer immunoediting. *Nature reviews. Immunology*, 6(11), 836-848. doi: 10.1038/nri1961
- Elbashir, S. M., Harborth, J., Lendeckel, W., Yalcin, A., Weber, K., & Tuschl, T. (2001). Duplexes of 21-nucleotide RNAs mediate RNA interference in cultured mammalian cells. *Nature*, 411(6836), 494-498. doi: 10.1038/35078107
- Elbashir, S. M., Harborth, J., Weber, K., & Tuschl, T. (2002). Analysis of gene function in somatic mammalian cells using small interfering RNAs. *Methods*, 26(2), 199-213. doi: 10.1016/s1046-2023(02)00023-3
- Elul, R. (1967). Fixed charge in the cell membrane. *J Physiol*, 189(3), 351-365.
- Endoh, T., & Ohtsuki, T. (2009). Cellular siRNA delivery using cell-penetrating peptides modified for endosomal escape. *Adv Drug Deliv Rev*, 61(9), 704-709. doi: 10.1016/j.addr.2009.04.005
- Espert, L., Degols, G., Gongora, C., Blondel, D., Williams, B. R., Silverman, R. H., & Mechti, N. (2003). ISG20, a new interferon-induced RNase specific for single-stranded RNA, defines an alternative antiviral pathway against RNA genomic viruses. *The Journal of biological chemistry*, 278(18), 16151-16158. doi: 10.1074/jbc.M209628200
- Espert, L., Rey, C., Gonzalez, L., Degols, G., Chelbi-Alix, M. K., Mechti, N., & Gongora, C. (2004). The exonuclease ISG20 is directly induced by synthetic dsRNA via NF-kappaB and IRF1 activation. *Oncogene*, 23(26), 4636-4640. doi: 10.1038/sj.onc.1207586
- Fedorov, Y., King, A., Anderson, E., Karpilow, J., Ilsley, D., Marshall, W., & Khvorova, A. (2005). Different delivery methods-different expression profiles. *Nat Methods*, 2(4), 241. doi: 10.1038/nmeth0405-241
- Fire, A., Xu, S., Montgomery, M. K., Kostas, S. A., Driver, S. E., & Mello, C. C. (1998). Potent and specific genetic interference by double-stranded RNA in *Caenorhabditis elegans*. *Nature*, 391(6669), 806-811. doi: 10.1038/35888
- Fischer-Kierzkowska, A., Vydra, N., Wysocka-Wycisk, A., Kronekova, Z., Jarzab, M., Lisowska, K. M., & Krawczyk, Z. (2011). Liposome-based DNA carriers may induce cellular stress response and change gene expression pattern in transfected cells. *BMC molecular biology*, 12, 27. doi: 10.1186/1471-2199-12-27

- Fotakis, G., & Timbrell, J. A. (2006). In vitro cytotoxicity assays: comparison of LDH, neutral red, MTT and protein assay in hepatoma cell lines following exposure to cadmium chloride. *Toxicology letters*, *160*(2), 171-177. doi: 10.1016/j.toxlet.2005.07.001
- Fu, L. Y., Jia, H. L., Dong, Q. Z., Wu, J. C., Zhao, Y., Zhou, H. J., Ren, N., Ye, Q. H., & Qin, L. X. (2009). Suitable reference genes for real-time PCR in human HBV-related hepatocellular carcinoma with different clinical prognoses. *BMC cancer*, *9*, 49. doi: 10.1186/1471-2407-9-49
- Fujita, T., Sakakibara, J., Sudo, Y., Miyamoto, M., Kimura, Y., & Taniguchi, T. (1988). Evidence for a nuclear factor(s), IRF-1, mediating induction and silencing properties to human IFN-beta gene regulatory elements. *The EMBO journal*, *7*(11), 3397-3405.
- Fyrberg, A., & Lotfi, K. (2010). Optimization and evaluation of electroporation delivery of siRNA in the human leukemic CEM cell line. *Cytotechnology*, *62*(6), 497-507. doi: 10.1007/s10616-010-9309-6
- Ge, Q., Ilves, H., Dallas, A., Kumar, P., Shorenstein, J., Kazakov, S. A., & Johnston, B. H. (2010). Minimal-length short hairpin RNAs: the relationship of structure and RNAi activity. *RNA*, *16*(1), 106-117. doi: 10.1261/rna.1894510
- Gey, G. O., Coffman, W. D., & Kubicek, M. T. (1952). Tissue Culture Studies of the Proliferative Capacity of Cervical Carcinoma and Normal Epithelium. *Cancer Research*, *12*(4), 264-265.
- Giacomelli, C., Le Men, L., Borsali, R., Lai-Kee-Him, J., Brisson, A., Armes, S. P., & Lewis, A. L. (2006). Phosphorylcholine-based pH-responsive diblock copolymer micelles as drug delivery vehicles: light scattering, electron microscopy, and fluorescence experiments. *Biomacromolecules*, *7*(3), 817-828. doi: 10.1021/bm0508921
- Gibbins, D. J., Ciaudo, C., Erhardt, M., & Voinnet, O. (2009). Multivesicular bodies associate with components of miRNA effector complexes and modulate miRNA activity. *Nat Cell Biol*, *11*(9), 1143-1149. doi: 10.1038/ncb1929
- Gilleron, J., Querbes, W., Zeigerer, A., Borodovsky, A., Marsico, G., Schubert, U., Manygoats, K., Seifert, S., Andree, C., Stoter, M., Epstein-Barash, H., Zhang, L., Koteliansky, V., Fitzgerald, K., Fava, E., Bickle, M., Kalaidzidis, Y., Akinc, A., Maier, M., & Zerial, M. (2013a). Image-based analysis of lipid nanoparticle-

- mediated siRNA delivery, intracellular trafficking and endosomal escape. *Nature biotechnology*, 31(7), 638-646. doi: 10.1038/nbt.2612
- Gilleron, J., Querbes, W., Zeigerer, A., Borodovsky, A., Marsico, G., Schubert, U., Manygoats, K., Seifert, S., Andree, C., Stoter, M., Epstein-Barash, H., Zhang, L., Koteliansky, V., Fitzgerald, K., Fava, E., Bickle, M., Kalaidzidis, Y., Akinc, A., Maier, M., & Zerial, M. (2013b). Image-based analysis of lipid nanoparticle-mediated siRNA delivery, intracellular trafficking and endosomal escape. *Nat Biotechnol*, 31(7), 638-646. doi: 10.1038/nbt.2612
- Goodwin, J., Chapman, K., Swaney, S., Parks, T. D., Wernsman, E. A., & Dougherty, W. G. (1996). Genetic and biochemical dissection of transgenic RNA-mediated virus resistance. *Plant Cell*, 8(1), 95-105. doi: 10.1105/tpc.8.1.95
- Gorer, P. A., Lyman, S., & Snell, G. D. (1948). Studies on the Genetic and Antigenic Basis of Tumour Transplantation - Linkage between a Histocompatibility Gene and Fused in Mice. *Proceedings of the Royal Society of London Series B-Biological Sciences*, 135(881), 499-505.
- Gough, D. J., Messina, N. L., Hii, L., Gould, J. A., Sabapathy, K., Robertson, A. P., Trapani, J. A., Levy, D. E., Hertzog, P. J., Clarke, C. J., & Johnstone, R. W. (2010). Functional crosstalk between type I and II interferon through the regulated expression of STAT1. *PLoS biology*, 8(4), e1000361. doi: 10.1371/journal.pbio.1000361
- Gregory, R. I., Chendrimada, T. P., Cooch, N., & Shiekhattar, R. (2005). Human RISC couples microRNA biogenesis and posttranscriptional gene silencing. *Cell*, 123(4), 631-640. doi: 10.1016/j.cell.2005.10.022
- Grimm, D., Staeheli, P., Hufbauer, M., Koerner, I., Martinez-Sobrido, L., Solorzano, A., Garcia-Sastre, A., Haller, O., & Kochs, G. (2007). Replication fitness determines high virulence of influenza A virus in mice carrying functional Mx1 resistance gene. *Proceedings of the National Academy of Sciences of the United States of America*, 104(16), 6806-6811. doi: 10.1073/pnas.0701849104
- Grimm, D., Wang, L., Lee, J. S., Schurmann, N., Gu, S., Borner, K., Storm, T. A., & Kay, M. A. (2010). Argonaute proteins are key determinants of RNAi efficacy, toxicity, and persistence in the adult mouse liver. *The Journal of clinical investigation*, 120(9), 3106-3119. doi: 10.1172/JCI43565

- Grimm, S., & Leder, P. (1997). An apoptosis-inducing isoform of neu differentiation factor (NDF) identified using a novel screen for dominant, apoptosis-inducing genes. *The Journal of experimental medicine*, *185*(6), 1137-1142.
- Guo, J., Evans, J. C., & O'Driscoll, C. M. (2013). Delivering RNAi therapeutics with non-viral technology: a promising strategy for prostate cancer? *Trends Mol Med*, *19*(4), 250-261. doi: 10.1016/j.molmed.2013.02.002
- Guttridge, D. C., Albanese, C., Reuther, J. Y., Pestell, R. G., & Baldwin, A. S., Jr. (1999). NF-kappaB controls cell growth and differentiation through transcriptional regulation of cyclin D1. *Molecular and cellular biology*, *19*(8), 5785-5799.
- Haller, O., & Kochs, G. (2002). Interferon-induced mx proteins: dynamin-like GTPases with antiviral activity. *Traffic*, *3*(10), 710-717.
- Hammond, S. M., Bernstein, E., Beach, D., & Hannon, G. J. (2000). An RNA-directed nuclease mediates post-transcriptional gene silencing in *Drosophila* cells. *Nature*, *404*(6775), 293-296. doi: 10.1038/35005107
- Hammond, S. M., Boettcher, S., Caudy, A. A., Kobayashi, R., & Hannon, G. J. (2001). Argonaute2, a link between genetic and biochemical analyses of RNAi. *Science*, *293*(5532), 1146-1150. doi: 10.1126/science.1064023
- Hartner, J. C., Walkley, C. R., Lu, J., & Orkin, S. H. (2009). ADAR1 is essential for the maintenance of hematopoiesis and suppression of interferon signaling. *Nature immunology*, *10*(1), 109-115. doi: 10.1038/ni.1680
- Hatakeyama, H., Ito, E., Akita, H., Oishi, M., Nagasaki, Y., Futaki, S., & Harashima, H. (2009). A pH-sensitive fusogenic peptide facilitates endosomal escape and greatly enhances the gene silencing of siRNA-containing nanoparticles in vitro and in vivo. *J Control Release*, *139*(2), 127-132. doi: 10.1016/j.jconrel.2009.06.008
- Hershey, J. W. (1989). Protein phosphorylation controls translation rates. *The Journal of biological chemistry*, *264*(35), 20823-20826.
- Hickerson, R. P., Wey, W. C., Rimm, D. L., Speaker, T., Suh, S., Flores, M. A., Gonzalez-Gonzalez, E., Leake, D., Contag, C. H., & Kaspar, R. L. (2013). Gene Silencing in Skin After Deposition of Self-Delivery siRNA With a Motorized Microneedle Array Device. *Mol Ther Nucleic Acids*, *2*, e129. doi: 10.1038/mtna.2013.56

- Hommel, J. D., Sears, R. M., Georgescu, D., Simmons, D. L., & DiLeone, R. J. (2003). Local gene knockdown in the brain using viral-mediated RNA interference. *Nat Med*, *9*(12), 1539-1544. doi: 10.1038/nm964
- Honda, K., Yanai, H., Negishi, H., Asagiri, M., Sato, M., Mizutani, T., Shimada, N., Ohba, Y., Takaoka, A., Yoshida, N., & Taniguchi, T. (2005). IRF-7 is the master regulator of type-I interferon-dependent immune responses. *Nature*, *434*(7034), 772-777. doi: 10.1038/nature03464
- Hong, N. A., Kabra, N. H., Hsieh, S. N., Cado, D., & Winoto, A. (1999). In vivo overexpression of Dad1, the defender against apoptotic death-1, enhances T cell proliferation but does not protect against apoptosis. *Journal of immunology*, *163*(4), 1888-1893.
- Hosseinzadeh, H., Atyabi, F., Dinarvand, R., & Ostad, S. N. (2012). Chitosan-Pluronic nanoparticles as oral delivery of anticancer gemcitabine: preparation and in vitro study. *Int J Nanomedicine*, *7*, 1851-1863. doi: 10.2147/ijn.s26365
- Howard, K. A., Rahbek, U. L., Liu, X., Damgaard, C. K., Glud, S. Z., Andersen, M. O., Hovgaard, M. B., Schmitz, A., Nyengaard, J. R., Besenbacher, F., & Kjems, J. (2006). RNA interference in vitro and in vivo using a novel chitosan/siRNA nanoparticle system. *Mol Ther*, *14*(4), 476-484. doi: 10.1016/j.ymthe.2006.04.010
- Huang, S., Bucana, C. D., Van Arsdall, M., & Fidler, I. J. (2002). Stat1 negatively regulates angiogenesis, tumorigenicity and metastasis of tumor cells. *Oncogene*, *21*(16), 2504-2512. doi: 10.1038/sj.onc.1205341
- Huh, M. S., Lee, S. Y., Park, S., Lee, S., Chung, H., Lee, S., Choi, Y., Oh, Y. K., Park, J. H., Jeong, S. Y., Choi, K., Kim, K., & Kwon, I. C. (2010). Tumor-homing glycol chitosan/polyethylenimine nanoparticles for the systemic delivery of siRNA in tumor-bearing mice. *J Control Release*, *144*(2), 134-143. doi: 10.1016/j.jconrel.2010.02.023
- Hutvagner, G., & Zamore, P. D. (2002). A microRNA in a multiple-turnover RNAi enzyme complex. *Science*, *297*(5589), 2056-2060. doi: 10.1126/science.1073827
- Irie, M. (1999). Structure-function relationships of acid ribonucleases: lysosomal, vacuolar, and periplasmic enzymes. *Pharmacol Ther*, *81*(2), 77-89.

- Isaacs, A., & Lindenmann, J. (1957). Virus interference. I. The interferon. *Proceedings of the Royal Society of London Series B, Containing papers of a Biological character Royal Society (Great Britain)*, 147(927), 258-267.
- Ito, T., Yang, M., & May, W. S. (1999). RAX, a cellular activator for double-stranded RNA-dependent protein kinase during stress signaling. *The Journal of biological chemistry*, 274(22), 15427-15432.
- Jackson, A. L., Bartz, S. R., Schelter, J., Kobayashi, S. V., Burchard, J., Mao, M., Li, B., Cavet, G., & Linsley, P. S. (2003a). Expression profiling reveals off-target gene regulation by RNAi. *Nat Biotechnol*, 21(6), 635-637. doi: 10.1038/nbt831
- Jackson, A. L., Bartz, S. R., Schelter, J., Kobayashi, S. V., Burchard, J., Mao, M., Li, B., Cavet, G., & Linsley, P. S. (2003b). Expression profiling reveals off-target gene regulation by RNAi. *Nature biotechnology*, 21(6), 635-637. doi: 10.1038/nbt831
- Jantti, J., Lahdenranta, J., Olkkonen, V. M., Soderlund, H., & Keranen, S. (1999). SEM1, a homologue of the split hand/split foot malformation candidate gene Dss1, regulates exocytosis and pseudohyphal differentiation in yeast. *Proceedings of the National Academy of Sciences of the United States of America*, 96(3), 909-914.
- Jatiani, S. S., & Mittal, R. (2004). Expression of the antiviral protein MxA in cells transiently perturbs endocytosis. *Biochemical and biophysical research communications*, 323(2), 541-546. doi: 10.1016/j.bbrc.2004.08.134
- Jinek, M., & Doudna, J. A. (2009). A three-dimensional view of the molecular machinery of RNA interference. *Nature*, 457(7228), 405-412. doi: 10.1038/nature07755
- Johnston, M., Geoffroy, M. C., Sobala, A., Hay, R., & Hutvagner, G. (2010). HSP90 protein stabilizes unloaded argonaute complexes and microscopic P-bodies in human cells. *Mol Biol Cell*, 21(9), 1462-1469. doi: 10.1091/mbc.E09-10-0885
- Judge, A. D., Sood, V., Shaw, J. R., Fang, D., McClintock, K., & MacLachlan, I. (2005). Sequence-dependent stimulation of the mammalian innate immune response by synthetic siRNA. *Nat Biotechnol*, 23(4), 457-462. doi: 10.1038/nbt1081
- Kabanov, A., Zhu, J., & Alakhov, V. (2005). Pluronic Block Copolymers for Gene Delivery. *Adv Genet*, 53PA, 231-261. doi: 10.1016/s0065-2660(05)53009-8

- Kabanov, A. V., Batrakova, E. V., & Alakhov, V. Y. (2002). Pluronic (R) block copolymers as novel polymer therapeutics for drug and gene delivery. *Journal of Controlled Release*, 82(2-3), 189-212. doi: 10.1016/S0168-3659(02)00009-3
- Kakizawa, Y., Furukawa, S., & Kataoka, K. (2004). Block copolymer-coated calcium phosphate nanoparticles sensing intracellular environment for oligodeoxynucleotide and siRNA delivery. *Journal of controlled release : official journal of the Controlled Release Society*, 97(2), 345-356. doi: 10.1016/j.jconrel.2004.03.031
- Kanasty, R., Dorkin, J. R., Vegas, A., & Anderson, D. (2013). Delivery materials for siRNA therapeutics. *Nat Mater*, 12(11), 967-977. doi: 10.1038/nmat3765
- Kang, D. C., Gopalkrishnan, R. V., Wu, Q., Jankowsky, E., Pyle, A. M., & Fisher, P. B. (2002). mda-5: An interferon-inducible putative RNA helicase with double-stranded RNA-dependent ATPase activity and melanoma growth-suppressive properties. *Proceedings of the National Academy of Sciences of the United States of America*, 99(2), 637-642. doi: 10.1073/pnas.022637199
- Karre, K. (1995). Express yourself or die: peptides, MHC molecules, and NK cells. *Science*, 267(5200), 978-979.
- Kataoka, K., Harada, A., & Nagasaki, Y. (2001). Block copolymer micelles for drug delivery: design, characterization and biological significance. *Adv Drug Deliv Rev*, 47(1), 113-131.
- Kelleher, D. J., & Gilmore, R. (1997). DAD1, the defender against apoptotic cell death, is a subunit of the mammalian oligosaccharyltransferase. *Proceedings of the National Academy of Sciences of the United States of America*, 94(10), 4994-4999.
- Kenny, G. D., Kamaly, N., Kalber, T. L., Brody, L. P., Sahuri, M., Shamsaei, E., Miller, A. D., & Bell, J. D. (2011). Novel multifunctional nanoparticle mediates siRNA tumour delivery, visualisation and therapeutic tumour reduction in vivo. *J Control Release*, 149(2), 111-116. doi: 10.1016/j.jconrel.2010.09.020
- Khodthong, C., Ismaili, I., & Juckem, L. (2013). The Impact of Transfection Mediated Toxicity - Gene Expression and Cytotoxicity Analysis of Transfection Reagents. Madison, Wisconsin: Mirus Bio LLC.
- Kim, H. O., Kim, E., An, Y., Choi, J., Jang, E., Choi, E. B., Kukreja, A., Kim, M. H., Kang, B., Kim, D. J., Suh, J. S., Huh, Y. M., & Haam, S. (2013). A biodegradable

- polymersome containing Bcl-xL siRNA and doxorubicin as a dual delivery vehicle for a synergistic anticancer effect. *Macromol Biosci*, 13(6), 745-754. doi: 10.1002/mabi.201200448
- Kim, S. H., Jeong, J. H., Lee, S. H., Kim, S. W., & Park, T. G. (2006). PEG conjugated VEGF siRNA for anti-angiogenic gene therapy. *J Control Release*, 116(2), 123-129. doi: 10.1016/j.jconrel.2006.05.023
- Kim, Y., Tewari, M., Pajeroski, J. D., Cai, S., Sen, S., Williams, J. H., Sirsi, S. R., Lutz, G. J., & Discher, D. E. (2009). Polymersome delivery of siRNA and antisense oligonucleotides. *J Control Release*, 134(2), 132-140. doi: 10.1016/j.jconrel.2008.10.020
- Kimura, T., Nakayama, K., Penninger, J., Kitagawa, M., Harada, H., Matsuyama, T., Tanaka, N., Kamijo, R., Vilcek, J., Mak, T. W., & et al. (1994). Involvement of the IRF-1 transcription factor in antiviral responses to interferons. *Science*, 264(5167), 1921-1924.
- Kishida, T., Asada, H., Gojo, S., Ohashi, S., Shin-Ya, M., Yasutomi, K., Terauchi, R., Takahashi, K. A., Kubo, T., Imanishi, J., & Mazda, O. (2004). Sequence-specific gene silencing in murine muscle induced by electroporation-mediated transfer of short interfering RNA. *J Gene Med*, 6(1), 105-110. doi: 10.1002/jgm.456
- Ko, J., Gendron-Fitzpatrick, A., & Splitter, G. A. (2002). Susceptibility of IFN regulatory factor-1 and IFN consensus sequence binding protein-deficient mice to brucellosis. *Journal of immunology*, 168(5), 2433-2440.
- Kochs, G., & Haller, O. (1999). Interferon-induced human MxA GTPase blocks nuclear import of Thogoto virus nucleocapsids. *Proceedings of the National Academy of Sciences of the United States of America*, 96(5), 2082-2086.
- Koenen, T. B., Stienstra, R., van Tits, L. J., Joosten, L. A., van Velzen, J. F., Hijmans, A., Pol, J. A., van der Vliet, J. A., Netea, M. G., Tack, C. J., Stalenhoef, A. F., & de Graaf, J. (2011). The inflammasome and caspase-1 activation: a new mechanism underlying increased inflammatory activity in human visceral adipose tissue. *Endocrinology*, 152(10), 3769-3778. doi: 10.1210/en.2010-1480
- Kong, F., Zhou, F., Ge, L., Liu, X., & Wang, Y. (2012). Mannosylated liposomes for targeted gene delivery. *Int J Nanomedicine*, 7, 1079-1089. doi: 10.2147/IJN.S29183

- Kwon, M. J., Oh, E., Lee, S., Roh, M. R., Kim, S. E., Lee, Y., Choi, Y. L., In, Y. H., Park, T., Koh, S. S., & Shin, Y. K. (2009). Identification of novel reference genes using multiplatform expression data and their validation for quantitative gene expression analysis. *PLoS one*, *4*(7), e6162. doi: 10.1371/journal.pone.0006162
- Lai, Y., Xin, D., Bai, J., Mao, Z., & Na, Y. (2007). The important anti-apoptotic role and its regulation mechanism of PTTG1 in UV-induced apoptosis. *Journal of biochemistry and molecular biology*, *40*(6), 966-972.
- Lara, M. F., Gonzalez-Gonzalez, E., Speaker, T. J., Hickerson, R. P., Leake, D., Milstone, L. M., Contag, C. H., & Kaspar, R. L. (2012). Inhibition of CD44 gene expression in human skin models, using self-delivery short interfering RNA administered by dissolvable microneedle arrays. *Hum Gene Ther*, *23*(8), 816-823. doi: 10.1089/hum.2011.211
- Larner, A. C., Chaudhuri, A., & Darnell, J. E., Jr. (1986). Transcriptional induction by interferon. New protein(s) determine the extent and length of the induction. *The Journal of biological chemistry*, *261*(1), 453-459.
- Lau, P. W., Guiley, K. Z., De, N., Potter, C. S., Carragher, B., & MacRae, I. J. (2012). The molecular architecture of human Dicer. *Nat Struct Mol Biol*, *19*(4), 436-440. doi: 10.1038/nsmb.2268
- Lau, P. W., Potter, C. S., Carragher, B., & MacRae, I. J. (2009). Structure of the human Dicer-TRBP complex by electron microscopy. *Structure*, *17*(10), 1326-1332. doi: 10.1016/j.str.2009.08.013
- Law, W. C., Mahajan, S. D., Kopwitthaya, A., Reynolds, J. L., Liu, M., Liu, X., Chen, G., Erogbogbo, F., Vathy, L., Aalinkeel, R., Schwartz, S. A., Yong, K. T., & Prasad, P. N. (2012). Gene Silencing of Human Neuronal Cells for Drug Addiction Therapy using Anisotropic Nanocrystals. *Theranostics*, *2*(7), 695-704. doi: 10.7150/thno.3459
- Lee, R. C., Feinbaum, R. L., & Ambros, V. (1993). The *C. elegans* heterochronic gene *lin-4* encodes small RNAs with antisense complementarity to *lin-14*. *Cell*, *75*(5), 843-854. doi: [http://dx.doi.org/10.1016/0092-8674\(93\)90529-Y](http://dx.doi.org/10.1016/0092-8674(93)90529-Y)
- Lee, Y. S., Pressman, S., Andress, A. P., Kim, K., White, J. L., Cassidy, J. J., Li, X., Lubell, K., Lim do, H., Cho, I. S., Nakahara, K., Preall, J. B., Bellare, P., Sontheimer, E. J., & Carthew, R. W. (2009). Silencing by small RNAs is linked to endosomal trafficking. *Nat Cell Biol*, *11*(9), 1150-1156. doi: 10.1038/ncb1930

- Lewis, A. L. (2000). Phosphorylcholine-based polymers and their use in the prevention of biofouling. *Colloids Surf B Biointerfaces*, 18(3-4), 261-275.
- Lewis, W. H.. (1931). *Pinocytosis* (Vol. 49).
- Li, J., Chen, Y. C., Tseng, Y. C., Mozumdar, S., & Huang, L. (2010). Biodegradable calcium phosphate nanoparticle with lipid coating for systemic siRNA delivery. *J Control Release*, 142(3), 416-421. doi: 10.1016/j.jconrel.2009.11.008
- Li, Q., & Verma, I. M. (2002). NF-kappaB regulation in the immune system. *Nature reviews. Immunology*, 2(10), 725-734. doi: 10.1038/nri910
- Li, S. D., Chono, S., & Huang, L. (2008). Efficient gene silencing in metastatic tumor by siRNA formulated in surface-modified nanoparticles. *J Control Release*, 126(1), 77-84. doi: 10.1016/j.jconrel.2007.11.002
- Li, Y., Lu, J., Han, Y., Fan, X., & Ding, S. W. (2013). RNA interference functions as an antiviral immunity mechanism in mammals. *Science*, 342(6155), 231-234. doi: 10.1126/science.1241911
- Liang, W., & Lam, J. K.W. (2012). *Endosomal Escape Pathways for Non-Viral Nucleic Acid Delivery Systems*.
- Libermann, T. A., & Baltimore, D. (1990). Activation of interleukin-6 gene expression through the NF-kappa B transcription factor. *Molecular and cellular biology*, 10(5), 2327-2334.
- Liu, J., Rivas, F. V., Wohlschlegel, J., Yates, J. R., 3rd, Parker, R., & Hannon, G. J. (2005). A role for the P-body component GW182 in microRNA function. *Nat Cell Biol*, 7(12), 1261-1266. doi: 10.1038/ncb1333
- Liu, J., Valencia-Sanchez, M. A., Hannon, G. J., & Parker, R. (2005). MicroRNA-dependent localization of targeted mRNAs to mammalian P-bodies. *Nat Cell Biol*, 7(7), 719-723. doi: 10.1038/ncb1274
- Lomas, H., Canton, I., MacNeil, S., Du, J., Armes, S. P., Ryan, A. J., Lewis, A. L., & Battaglia, G. (2007). Biomimetic pH sensitive polymersomes for efficient DNA encapsulation and delivery. *Advanced Materials*, 19(23), 4238-+. doi: Doi 10.1002/Adma.200700941
- Lomas, H., Du, J., Canton, I., Madsen, J., Warren, N., Armes, S. P., Lewis, A. L., & Battaglia, G. (2010). Efficient encapsulation of plasmid DNA in pH-sensitive PMPC-PDPA polymersomes: study of the effect of PDPA block length on

- copolymer-DNA binding affinity. *Macromol Biosci*, 10(5), 513-530. doi: 10.1002/mabi.201000083
- Lomas, H., Massignani, M., Abdullah, K. A., Canton, I., Lo Presti, C., MacNeil, S., Du, J., Blanz, A., Madsen, J., Armes, S. P., Lewis, A. L., & Battaglia, G. (2008). Non-cytotoxic polymer vesicles for rapid and efficient intracellular delivery. *Faraday Discuss*, 139, 143-159; discussion 213-128, 419-120.
- Lonez, C., Vandenbranden, M., Elouahabi, A., & Ruyschaert, J. M. (2008). Cationic lipid/DNA complexes induce TNF- α secretion in splenic macrophages. *Eur J Pharm Biopharm*, 69(3), 817-823. doi: 10.1016/j.ejpb.2008.01.035
- LoPresti, C., Lomas, H., Massignani, M., Smart, T., & Battaglia, G. (2009). Polymersomes: nature inspired nanometer sized compartments. *Journal of Materials Chemistry*, 19(22), 3576. doi: 10.1039/b818869f
- Luhtala, N., & Parker, R. (2010). T2 Family ribonucleases: ancient enzymes with diverse roles. *Trends Biochem Sci*, 35(5), 253-259. doi: 10.1016/j.tibs.2010.02.002
- Ma, Y., Tang, Y., Billingham, N. C., Armes, S. P., Lewis, A. L., Lloyd, A. W., & Salvage, J. P. (2003). Well-Defined Biocompatible Block Copolymers via Atom Transfer Radical Polymerization of 2-Methacryloyloxyethyl Phosphorylcholine in Protic Media. *Macromolecules*, 36(10), 3475-3484. doi: 10.1021/ma021762c
- Macrae, I. J., Zhou, K., Li, F., Repic, A., Brooks, A. N., Cande, W. Z., Adams, P. D., & Doudna, J. A. (2006). Structural basis for double-stranded RNA processing by Dicer. *Science*, 311(5758), 195-198. doi: 10.1126/science.1121638
- Madsen, J., Armes, S. P., Bertal, K., MacNeil, S., & Lewis, A. L. (2009). Preparation and aqueous solution properties of thermoresponsive biocompatible AB diblock copolymers. *Biomacromolecules*, 10(7), 1875-1887. doi: 10.1021/bm9002915
- Madsen, J., Warren, N. J., Armes, S. P., & Lewis, A. L. (2011). Synthesis of rhodamine 6G-based compounds for the ATRP synthesis of fluorescently labeled biocompatible polymers. *Biomacromolecules*, 12(6), 2225-2234. doi: 10.1021/bm200311s
- Madsen, J., Armes, S. P., & Lewis, A. L. (2006). Preparation and Aqueous Solution Properties of New Thermoresponsive Biocompatible ABA Triblock Copolymer Gelators. *Macromolecules*, 39(22), 7455-7457. doi: 10.1021/ma062198z

- Maillard, P. V., Ciaudo, C., Marchais, A., Li, Y., Jay, F., Ding, S. W., & Voinnet, O. (2013). Antiviral RNA interference in mammalian cells. *Science*, *342*(6155), 235-238. doi: 10.1126/science.1241930
- Makishima, T., Yoshimi, M., Komiyama, S., Hara, N., & Nishimoto, T. (2000). A subunit of the mammalian oligosaccharyltransferase, DAD1, interacts with Mcl-1, one of the bcl-2 protein family. *Journal of biochemistry*, *128*(3), 399-405.
- Manoharan, M. (2004). RNA interference and chemically modified small interfering RNAs. *Curr Opin Chem Biol*, *8*(6), 570-579. doi: 10.1016/j.cbpa.2004.10.007
- Martinez, J., Patkaniowska, A., Urlaub, H., Luhrmann, R., & Tuschl, T. (2002). Single-stranded antisense siRNAs guide target RNA cleavage in RNAi. *Cell*, *110*(5), 563-574.
- Massignani, M., Lomas, H., Battaglia, G., & Caruso, F. (2010). Polymersomes: A Synthetic Biological Approach to Encapsulation and Delivery. *Modern Techniques For Nano- and Microreactors/-Reactions*, *229*, 115-154. doi: 10.1007/12_2009_40
- Massignani, M., Canton, I., Sun, T., Hearnden, V., Macneil, S., Blanazs, A., Armes, S. P., Lewis, A., & Battaglia, G. (2010). Enhanced fluorescence imaging of live cells by effective cytosolic delivery of probes. *PLoS One*, *5*(5), e10459. doi: 10.1371/journal.pone.0010459
- Massignani, M., LoPresti, C., Blanazs, A., Madsen, J., Armes, S. P., Lewis, A. L., & Battaglia, G. (2009). Controlling cellular uptake by surface chemistry, size, and surface topology at the nanoscale. *Small*, *5*(21), 2424-2432. doi: 10.1002/smll.200900578
- Maurisse, R., De Semir, D., Emamekhoo, H., Bedayat, B., Abdolmohammadi, A., Parsi, H., & Gruenert, D. C. (2010). Comparative transfection of DNA into primary and transformed mammalian cells from different lineages. *BMC biotechnology*, *10*, 9. doi: 10.1186/1472-6750-10-9
- McCutcheon, J. A., Gumperz, J., Smith, K. D., Lutz, C. T., & Parham, P. (1995). Low HLA-C expression at cell surfaces correlates with increased turnover of heavy chain mRNA. *The Journal of experimental medicine*, *181*(6), 2085-2095.
- Meister, G. (2013). Argonaute proteins: functional insights and emerging roles. *Nat Rev Genet*, *14*(7), 447-459. doi: 10.1038/nrg3462

- Moore, J. C. (1964). Gel Permeation Chromatography .I. New Method for Molecular Weight Distribution of High Polymers. *Journal of Polymer Science Part a-General Papers*, 2(2PA), 835-&. doi: Doi 10.1002/Pol.1964.100020220
- Mori, R, Wang, QC, Danenberg, KD, Pinski, JK, & Danenberg, PV. (2008). Both beta-actin and GAPDH are useful reference genes for normalization of quantitative RT-PCR in human FFPE tissue samples of prostate cancer. *Prostate*, 68(14), 1555-1560. doi: 10.1002/pros.20815
- Mori, R., Wang, Q., Danenberg, K. D., Pinski, J. K., & Danenberg, P. V. (2008). Both beta-actin and GAPDH are useful reference genes for normalization of quantitative RT-PCR in human FFPE tissue samples of prostate cancer. *The Prostate*, 68(14), 1555-1560. doi: 10.1002/pros.20815
- Mosmann, T. (1983a). Rapid colorimetric assay for cellular growth and survival: application to proliferation and cytotoxicity assays. *Journal of immunological methods*, 65(1-2), 55-63.
- Mosmann, T. (1983b). Rapid colorimetric assay for cellular growth and survival: application to proliferation and cytotoxicity assays. *J Immunol Methods*, 65(1-2), 55-63.
- Motavaf, M., Safari, S., & Alavian, S. M. (2012). Therapeutic potential of RNA interference: a new molecular approach to antiviral treatment for hepatitis C. *J Viral Hepat*, 19(11), 757-765. doi: 10.1111/jvh.12006
- Nagarajan, R. (2002). Molecular packing parameter and surfactant self-assembly: The neglected role of the surfactant tail. *Langmuir*, 18(1), 31-38. doi: 10.1021/la010831y
- Nakai, T., Kanamori, T., Sando, S., & Aoyama, Y. (2003). Remarkably size-regulated cell invasion by artificial viruses. Saccharide-dependent self-aggregation of glycoviruses and its consequences in glycoviral gene delivery. *Journal of the American Chemical Society*, 125(28), 8465-8475. doi: 10.1021/ja035636f
- Nakashima, T., Sekiguchi, T., Kuraoka, A., Fukushima, K., Shibata, Y., Komiyama, S., & Nishimoto, T. (1993). Molecular cloning of a human cDNA encoding a novel protein, DAD1, whose defect causes apoptotic cell death in hamster BHK21 cells. *Molecular and cellular biology*, 13(10), 6367-6374.
- Napoli, C, Lemieux, C, & Jorgensen, R. (1990). Introduction of a Chimeric Chalcone Synthase Gene into Petunia Results in Reversible Co-Suppression of Homologous Genes in trans. *Plant Cell*, 2(4), 279-289. doi: 10.2307/3869076

- Neumann, E., Schaefer-Ridder, M., Wang, Y., & Hofschneider, P. H. (1982). Gene transfer into mouse lymphoma cells by electroporation in high electric fields. *The EMBO journal*, *1*(7), 841-845.
- Nguyen, L. T., Atobe, K., Barichello, J. M., Ishida, T., & Kiwada, H. (2007). Complex formation with plasmid DNA increases the cytotoxicity of cationic liposomes. *Biol Pharm Bull*, *30*(4), 751-757.
- Nicholson, A. W. (1999). Function, mechanism and regulation of bacterial ribonucleases. *FEMS Microbiol Rev*, *23*(3), 371-390.
- Nishikura, K. (2010). Functions and regulation of RNA editing by ADAR deaminases. *Annual review of biochemistry*, *79*, 321-349. doi: 10.1146/annurev-biochem-060208-105251
- Nykanen, A., Haley, B., & Zamore, P. D. (2001). ATP requirements and small interfering RNA structure in the RNA interference pathway. *Cell*, *107*(3), 309-321.
- Pal, S. K., Noguchi, S., Yamamoto, G., Yamada, A., Isobe, T., Hayashi, S., Tanaka, J., Tanaka, Y., Kamijo, R., Yamane, G. Y., & Tachikawa, T. (2012). Expression of myelin and lymphocyte protein (MAL) in oral carcinogenesis. *Medical molecular morphology*, *45*(4), 222-228. doi: 10.1007/s00795-011-0563-2
- Palade, G. E. (1953). An electron microscope study of the mitochondrial structure. *J Histochem Cytochem*, *1*(4), 188-211.
- Palade, G. E., & Bruns, R. R. (1968). Structural modulations of plasmalemmal vesicles. *J Cell Biol*, *37*(3), 633-649.
- Palm, M., Garigliany, M. M., Cornet, F., & Desmecht, D. (2010). Interferon-induced Sus scrofa Mx1 blocks endocytic traffic of incoming influenza A virus particles. *Veterinary research*, *41*(3), 29. doi: 10.1051/vetres/2010001
- Pamment, J., Ramsay, E., Kelleher, M., Dornan, D., & Ball, K. L. (2002). Regulation of the IRF-1 tumour modifier during the response to genotoxic stress involves an ATM-dependent signalling pathway. *Oncogene*, *21*(51), 7776-7785. doi: 10.1038/sj.onc.1205981
- Pangburn, T. O., Georgiou, K., Bates, F. S., & Kokkoli, E. (2012). Targeted polymersome delivery of siRNA induces cell death of breast cancer cells dependent upon Orai3 protein expression. *Langmuir*, *28*(35), 12816-12830. doi: 10.1021/la300874z

- Patel, R. C., & Sen, G. C. (1998). PACT, a protein activator of the interferon-induced protein kinase, PKR. *The EMBO journal*, *17*(15), 4379-4390. doi: 10.1093/emboj/17.15.4379
- Patil, Y., & Panyam, J. (2009). Polymeric nanoparticles for siRNA delivery and gene silencing. *Int J Pharm*, *367*(1-2), 195-203. doi: 10.1016/j.ijpharm.2008.09.039
- Pearse, B. M. (1976). Clathrin: a unique protein associated with intracellular transfer of membrane by coated vesicles. *Proc Natl Acad Sci U S A*, *73*(4), 1255-1259.
- Pearson, R. T., Warren, N. J., Lewis, A. L., Armes, S. P., & Battaglia, G. (2013). Effect of pH and Temperature on PMPC,ÄPDPA Copolymer Self-Assembly. *Macromolecules*, *46*(4), 1400-1407. doi: 10.1021/ma302228m
- Pegoraro, C., Cecchin, D., Gracia, L. S., Warren, N., Madsen, J., Armes, S. P., Lewis, A., Macneil, S., & Battaglia, G. (2013). Enhanced drug delivery to melanoma cells using PMPC-PDPA polymersomes. *Cancer Lett*, *334*(2), 328-337. doi: 10.1016/j.canlet.2013.02.007
- Pillai, R. S., Bhattacharyya, S. N., & Filipowicz, W. (2007). Repression of protein synthesis by miRNAs: how many mechanisms? *Trends Cell Biol*, *17*(3), 118-126. doi: 10.1016/j.tcb.2006.12.007
- Puertollano, R., & Alonso, M. A. (1999). MAL, an integral element of the apical sorting machinery, is an itinerant protein that cycles between the trans-Golgi network and the plasma membrane. *Molecular biology of the cell*, *10*(10), 3435-3447.
- Puertollano, R., Martin-Belmonte, F., Millan, J., de Marco, M. C., Albar, J. P., Kremer, L., & Alonso, M. A. (1999). The MAL proteolipid is necessary for normal apical transport and accurate sorting of the influenza virus hemagglutinin in Madin-Darby canine kidney cells. *The Journal of cell biology*, *145*(1), 141-151.
- Robertson, D.J., Patikarnmonthon, N., Joseph, S.A., & Battaglia, G. (2014). Polymeric Micelles & Vesicles. In A. R. P. Bader, A. D. (Ed.), *Engineering Polymer Systems for Improved Drug Delivery* (pp. 172): Wiley-Blackwell.
- Romano, N, & Macino, G. (1992). Quelling - transient inactivation of gene-expression in neurospora-crassa by transformation with homologous sequences. *Molecular Microbiology*, *6*(22), 3343-3353. doi: 10.1111/j.1365-2958.1992.tb02202.x
- Ross, P. C., & Hui, S. W. (1999). Lipoplex size is a major determinant of in vitro lipofection efficiency. *Gene Ther*, *6*(4), 651-659. doi: 10.1038/sj.gt.3300863

- Rothberg, K. G., Heuser, J. E., Donzell, W. C., Ying, Y. S., Glenney, J. R., & Anderson, R. G. (1992). Caveolin, a protein component of caveolae membrane coats. *Cell*, *68*(4), 673-682.
- Ruiz, F., Vayssie, L., Klotz, C., Sperling, L., & Madeddu, L. (1998). Homology-dependent gene silencing in Paramecium. *Molecular Biology of the Cell*, *9*(4), 931-943.
- Saito, M., Mazda, O., Takahashi, K. A., Arai, Y., Kishida, T., Shin-Ya, M., Inoue, A., Tonomura, H., Sakao, K., Morihara, T., Imanishi, J., Kawata, M., & Kubo, T. (2007). Sonoporation mediated transduction of pDNA/siRNA into joint synovium in vivo. *J Orthop Res*, *25*(10), 1308-1316. doi: 10.1002/jor.20392
- Sakai, T., Kawaguchi, M., & Kosuge, Y. (2009). siRNA-mediated gene silencing in the salivary gland using in vivo microbubble-enhanced sonoporation. *Oral Dis*, *15*(7), 505-511. doi: 10.1111/j.1601-0825.2009.01579.x
- Sambrook, Joseph, & Russell, David W. (2001). *Molecular cloning : a laboratory manual* (3rd ed. ed.). Cold Spring Harbor, N.Y.: Cold Spring Harbor Laboratory Press.
- Scheller, J., Chalaris, A., Schmidt-Arras, D., & Rose-John, S. (2011). The pro- and anti-inflammatory properties of the cytokine interleukin-6. *Biochimica et biophysica acta*, *1813*(5), 878-888. doi: 10.1016/j.bbamcr.2011.01.034
- Schmeisser, H., Mejido, J., Balinsky, C. A., Morrow, A. N., Clark, C. R., Zhao, T., & Zoon, K. C. (2010). Identification of alpha interferon-induced genes associated with antiviral activity in Daudi cells and characterization of IFIT3 as a novel antiviral gene. *Journal of virology*, *84*(20), 10671-10680. doi: 10.1128/JVI.00818-10
- Schmid, S. L. (1997). Clathrin-coated vesicle formation and protein sorting: an integrated process. *Annu Rev Biochem*, *66*, 511-548. doi: 10.1146/annurev.biochem.66.1.511
- Segura, T., & Hubbell, J. A. (2007). Synthesis and in vitro characterization of an ABC triblock copolymer for siRNA delivery. *Bioconjugate chemistry*, *18*(3), 736-745. doi: 10.1021/bc060284y
- Selvey, S., Thompson, E. W., Matthaei, K., Lea, R. A., Irving, M. G., & Griffiths, L. R. (2001). Beta-actin--an unsuitable internal control for RT-PCR. *Molecular and cellular probes*, *15*(5), 307-311. doi: 10.1006/mcpr.2001.0376

- Semizarov, D., Frost, L., Sarthy, A., Kroeger, P., Halbert, D. N., & Fesik, S. W. (2003). Specificity of short interfering RNA determined through gene expression signatures. *Proc Natl Acad Sci U S A*, *100*(11), 6347-6352. doi: 10.1073/pnas.1131959100
- Sen, G. L., & Blau, H. M. (2005). Argonaute 2/RISC resides in sites of mammalian mRNA decay known as cytoplasmic bodies. *Nat Cell Biol*, *7*(6), 633-636. doi: 10.1038/ncb1265
- Sen, R., & Baltimore, D. (1986a). Inducibility of kappa immunoglobulin enhancer-binding protein Nf-kappa B by a posttranslational mechanism. *Cell*, *47*(6), 921-928.
- Sen, R., & Baltimore, D. (1986b). Multiple nuclear factors interact with the immunoglobulin enhancer sequences. *Cell*, *46*(5), 705-716.
- Shen, C., Buck, A. K., Liu, X., Winkler, M., & Reske, S. N. (2003). Gene silencing by adenovirus-delivered siRNA. *FEBS Lett*, *539*(1-3), 111-114.
- Sheth, U., & Parker, R. (2003). Decapping and decay of messenger RNA occur in cytoplasmic processing bodies. *Science*, *300*(5620), 805-808. doi: 10.1126/science.1082320
- Sikand, K., Singh, J., Ebron, J. S., & Shukla, G. C. (2012). Housekeeping gene selection advisory: glyceraldehyde-3-phosphate dehydrogenase (GAPDH) and beta-actin are targets of miR-644a. *PloS one*, *7*(10), e47510. doi: 10.1371/journal.pone.0047510
- Silver, N., Best, S., Jiang, J., & Thein, S. L. (2006). Selection of housekeeping genes for gene expression studies in human reticulocytes using real-time PCR. *BMC molecular biology*, *7*, 33. doi: 10.1186/1471-2199-7-33
- Simon, B., Kirkpatrick, J. P., Eckhardt, S., Reuter, M., Rocha, E. A., Andrade-Navarro, M. A., Sehr, P., Pillai, R. S., & Carlomagno, T. (2011). Recognition of 2'-O-methylated 3'-end of piRNA by the PAZ domain of a Piwi protein. *Structure*, *19*(2), 172-180. doi: 10.1016/j.str.2010.11.015
- Singh, T. R., Garland, M. J., Cassidy, C. M., Migalska, K., Demir, Y. K., Abdelghany, S., Ryan, E., Woolfson, A. D., & Donnelly, R. F. (2010). Microporation techniques for enhanced delivery of therapeutic agents. *Recent Pat Drug Deliv Formul*, *4*(1), 1-17.

- Sioud, M. (2005). Induction of inflammatory cytokines and interferon responses by double-stranded and single-stranded siRNAs is sequence-dependent and requires endosomal localization. *J Mol Biol*, *348*(5), 1079-1090. doi: 10.1016/j.jmb.2005.03.013
- Sioud, M., & Sorensen, D. R. (2003). Cationic liposome-mediated delivery of siRNAs in adult mice. *Biochemical and biophysical research communications*, *312*(4), 1220-1225.
- Smart, T., Lomas, H., Massignani, M., Flores-Merino, M. V., Perez, L. R., & Battaglia, G. (2008). Block copolymer nanostructures. *Nano Today*, *3*(3-4), 38-46. doi: [http://dx.doi.org/10.1016/S1748-0132\(08\)70043-4](http://dx.doi.org/10.1016/S1748-0132(08)70043-4)
- Smith, P. K., Krohn, R. I., Hermanson, G. T., Mallia, A. K., Gartner, F. H., Provenzano, M. D., Fujimoto, E. K., Goeke, N. M., Olson, B. J., & Klenk, D. C. (1985). Measurement of Protein Using Bicinchoninic acid. *Analytical Biochemistry*, *150*(1), 76-85. doi: 10.1016/0003-2697(85)90442-7
- Snary, D., Barnstable, C. J., Bodmer, W. F., & Crumpton, M. J. (1977). Molecular structure of human histocompatibility antigens: the HLA-C series. *European journal of immunology*, *7*(8), 580-585. doi: 10.1002/eji.1830070816
- Song, J. J., Smith, S. K., Hannon, G. J., & Joshua-Tor, L. (2004). Crystal structure of Argonaute and its implications for RISC slicer activity. *Science*, *305*(5689), 1434-1437. doi: 10.1126/science.1102514
- Soutschek, J., Akinc, A., Bramlage, B., Charisse, K., Constien, R., Donoghue, M., Elbashir, S., Geick, A., Hadwiger, P., Harborth, J., John, M., Kesavan, V., Lavine, G., Pandey, R. K., Racie, T., Rajeev, K. G., Rohl, I., Toudjarska, I., Wang, G., Wuschko, S., Bumcrot, D., Koteliensky, V., Limmer, S., Manoharan, M., & Vornlocher, H. P. (2004). Therapeutic silencing of an endogenous gene by systemic administration of modified siRNAs. *Nature*, *432*(7014), 173-178. doi: 10.1038/nature03121
- Staeheli, P., & Sutcliffe, J. G. (1988). Identification of a second interferon-regulated murine Mx gene. *Molecular and cellular biology*, *8*(10), 4524-4528.
- Stevenson, M. (2003). Dissecting HIV-1 through RNA interference. *Nature Reviews Immunology*, *3*(11), 851-858. doi: 10.1038/nri1227
- Stilwell, J. L., & Samulski, R. J. (2004). Role of viral vectors and virion shells in cellular gene expression. *Mol Ther*, *9*(3), 337-346. doi: 10.1016/j.ymthe.2003.11.007

- Sugimoto, A., Hozak, R. R., Nakashima, T., Nishimoto, T., & Rothman, J. H. (1995). dad-1, an endogenous programmed cell death suppressor in *Caenorhabditis elegans* and vertebrates. *The EMBO journal*, *14*(18), 4434-4441.
- Sullivan, T., Escalante-Alcalde, D., Bhatt, H., Anver, M., Bhat, N., Nagashima, K., Stewart, C. L., & Burke, B. (1999). Loss of A-type lamin expression compromises nuclear envelope integrity leading to muscular dystrophy. *The Journal of cell biology*, *147*(5), 913-920.
- Suzuki, T., Lu, J., Zahed, M., Kita, K., & Suzuki, N. (2007). Reduction of GRP78 expression with siRNA activates unfolded protein response leading to apoptosis in HeLa cells. *Archives of Biochemistry and Biophysics*, *468*(1), 1-14. doi: Doi 10.1016/J.Abb.2007.09.004
- Tagalakis, A. D., He, L., Saraiva, L., Gustafsson, K. T., & Hart, S. L. (2011). Receptor-targeted liposome-peptide nanocomplexes for siRNA delivery. *Biomaterials*, *32*(26), 6302-6315. doi: 10.1016/j.biomaterials.2011.05.022
- Tagami, T., Hirose, K., Barichello, J. M., Ishida, T., & Kiwada, H. (2008). Global gene expression profiling in cultured cells is strongly influenced by treatment with siRNA-cationic liposome complexes. *Pharm Res*, *25*(11), 2497-2504. doi: 10.1007/s11095-008-9663-7
- Takaoka, A., Yanai, H., Kondo, S., Duncan, G., Negishi, H., Mizutani, T., Kano, S., Honda, K., Ohba, Y., Mak, T. W., & Taniguchi, T. (2005). Integral role of IRF-5 in the gene induction programme activated by Toll-like receptors. *Nature*, *434*(7030), 243-249. doi: 10.1038/nature03308
- Takeda, K., & Akira, S. (2000). STAT family of transcription factors in cytokine-mediated biological responses. *Cytokine & growth factor reviews*, *11*(3), 199-207.
- Takeshita, D., Zenno, S., Lee, W. C., Nagata, K., Saigo, K., & Tanokura, M. (2007). Homodimeric structure and double-stranded RNA cleavage activity of the C-terminal RNase III domain of human dicer. *J Mol Biol*, *374*(1), 106-120. doi: 10.1016/j.jmb.2007.08.069
- Tauber, A. I. (2003). Metchnikoff and the phagocytosis theory. *Nat Rev Mol Cell Biol*, *4*(11), 897-901. doi: 10.1038/nrm1244
- Tian, Y., Wu, W. C., Chen, C. Y., Strovos, T., Li, Y., Jin, Y., Su, F., Meldrum, D. R., & Jen, A. K. (2010). 2,1,3-Benzothiadiazole (BTD)-moiety-containing red emitter conjugated amphiphilic poly(ethylene glycol)-block-poly(epsilon-

- caprolactone) copolymers for bioimaging. *J Mater Chem*, 20(9), 1728-1736. doi: 10.1039/b922435c
- Tresset, G. (2009a). The multiple faces of self-assembled lipidic systems. *PMC Biophys*, 2(1), 3. doi: 10.1186/1757-5036-2-3
- Tresset, G. (2009b). The multiple faces of self-assembled lipidic systems. *PMC biophysics*, 2(1), 3. doi: 10.1186/1757-5036-2-3
- Tsuno, T., Mejido, J., Zhao, T., Schmeisser, H., Morrow, A., & Zoon, K. C. (2009). IRF9 is a key factor for eliciting the antiproliferative activity of IFN-alpha. *Journal of immunotherapy*, 32(8), 803-816. doi: 10.1097/CJI.0b013e3181ad4092
- Tulac, S., Dosiou, C., Suchanek, E., & Giudice, L. C. (2004). Silencing lamin A/C in human endometrial stromal cells: a model to investigate endometrial gene function and regulation. *Molecular human reproduction*, 10(10), 705-711. doi: 10.1093/molehr/gah105
- Tully, D. B., Collins, B. J., Overstreet, J. D., Smith, C. S., Dinse, G. E., Mumtaz, M. M., & Chapin, R. E. (2000). Effects of arsenic, cadmium, chromium, and lead on gene expression regulated by a battery of 13 different promoters in recombinant HepG2 cells. *Toxicology and applied pharmacology*, 168(2), 79-90. doi: 10.1006/taap.2000.9014
- Uchino, K., Ochiya, T., & Takeshita, F. (2013). RNAi therapeutics and applications of microRNAs in cancer treatment. *Jpn J Clin Oncol*, 43(6), 596-607. doi: 10.1093/jjco/hyt052
- van Meerloo, J., Kaspers, G. J., & Cloos, J. (2011). Cell sensitivity assays: the MTT assay. *Methods in molecular biology*, 731, 237-245. doi: 10.1007/978-1-61779-080-5_20
- Verhagen, A. M., Ekert, P. G., Pakusch, M., Silke, J., Connolly, L. M., Reid, G. E., Moritz, R. L., Simpson, R. J., & Vaux, D. L. (2000). Identification of DIABLO, a mammalian protein that promotes apoptosis by binding to and antagonizing IAP proteins. *Cell*, 102(1), 43-53.
- Vistica, D. T., Skehan, P., Scudiero, D., Monks, A., Pittman, A., & Boyd, M. R. (1991). Tetrazolium-based assays for cellular viability: a critical examination of selected parameters affecting formazan production. *Cancer research*, 51(10), 2515-2520.
- Voet, D., & Voet, J. G. (2011). *Biochemistry* (4th ed. ed.). Hoboken, N.J.: Wiley.

- Wang, H. W., Noland, C., Siridechadilok, B., Taylor, D. W., Ma, E., Felderer, K., Doudna, J. A., & Nogales, E. (2009). Structural insights into RNA processing by the human RISC-loading complex. *Nat Struct Mol Biol*, *16*(11), 1148-1153. doi: 10.1038/nsmb.1673
- Wang, L., Chierico, L., Little, D., Patikarnmonthon, N., Yang, Z., Azzouz, M., Madsen, J., Armes, S. P., & Battaglia, G. (2012). Encapsulation of biomacromolecules within polymersomes by electroporation. *Angewandte Chemie*, *51*(44), 11122-11125. doi: 10.1002/anie.201204169
- Wang, L. G., Chierico, L., Little, D., Patikarnmonthon, N., Yang, Z., Azzouz, M., Madsen, J., Armes, S. P., & Battaglia, G. (2012). Encapsulation of Biomacromolecules within Polymersomes by Electroporation. *Angewandte Chemie-International Edition*, *51*(44), 11122-11125. doi: Doi 10.1002/Anie.201204169
- Wang, X. L., Nguyen, T., Gillespie, D., Jensen, R., & Lu, Z. R. (2008). A multifunctional and reversibly polymerizable carrier for efficient siRNA delivery. *Biomaterials*, *29*(1), 15-22. doi: 10.1016/j.biomaterials.2007.08.048
- Watson, S., Mercier, S., Bye, C., Wilkinson, J., Cunningham, A. L., & Harman, A. N. (2007). Determination of suitable housekeeping genes for normalisation of quantitative real time PCR analysis of cells infected with human immunodeficiency virus and herpes viruses. *Virology journal*, *4*, 130. doi: 10.1186/1743-422X-4-130
- Wei, W., Ba, Z., Gao, M., Wu, Y., Ma, Y., Amiard, S., White, C. I., Rendtlew Danielsen, J. M., Yang, Y. G., & Qi, Y. (2012). A role for small RNAs in DNA double-strand break repair. *Cell*, *149*(1), 101-112. doi: 10.1016/j.cell.2012.03.002
- Weinstein, E. J., Grimm, S., & Leder, P. (1998). The oncogene heregulin induces apoptosis in breast epithelial cells and tumors. *Oncogene*, *17*(16), 2107-2113. doi: 10.1038/sj.onc.1202428
- Wilcox, J. L., & Bevilacqua, P. C. (2013). pKa Shifting in Double-Stranded RNA Is Highly Dependent upon Nearest Neighbors and Bulge Positioning. *Biochemistry*, *52*(42), 7470-7476. doi: 10.1021/bi400768q
- Williams, B. R. (1999). PKR; a sentinel kinase for cellular stress. *Oncogene*, *18*(45), 6112-6120. doi: 10.1038/sj.onc.1203127
- Wong, T. K., & Neumann, E. (1982). Electric field mediated gene transfer. *Biochemical and biophysical research communications*, *107*(2), 584-587.

- Wrobel, I., & Collins, D. (1995a). Fusion of cationic liposomes with mammalian cells occurs after endocytosis. *Biochim Biophys Acta*, 1235(2), 296-304.
- Wrobel, I., & Collins, D. (1995b). Fusion of cationic liposomes with mammalian cells occurs after endocytosis. *Biochimica et biophysica acta*, 1235(2), 296-304.
- Xu, Y., & Szoka, F. C., Jr. (1996). Mechanism of DNA release from cationic liposome/DNA complexes used in cell transfection. *Biochemistry*, 35(18), 5616-5623. doi: 10.1021/bi9602019
- Yamada, E. (1955). The fine structure of the gall bladder epithelium of the mouse. *J Biophys Biochem Cytol*, 1(5), 445-458.
- Yoshizawa, T., Hattori, Y., Hakoshima, M., Koga, K., & Maitani, Y. (2008). Folate-linked lipid-based nanoparticles for synthetic siRNA delivery in KB tumor xenografts. *Eur J Pharm Biopharm*, 70(3), 718-725. doi: 10.1016/j.ejpb.2008.06.026
- Yu, H., Zou, Y., Jiang, L., Yin, Q., He, X., Chen, L., Zhang, Z., Gu, W., & Li, Y. (2013). Induction of apoptosis in non-small cell lung cancer by downregulation of MDM2 using pH-responsive PMPC-b-PDPA/siRNA complex nanoparticles. *Biomaterials*, 34(11), 2738-2747. doi: 10.1016/j.biomaterials.2012.12.042
- Yuan, J. J., Schmid, A., Armes, S. P., & Lewis, A. L. (2006). Facile synthesis of highly biocompatible poly(2-(methacryloyloxy)ethyl phosphorylcholine)-coated gold nanoparticles in aqueous solution. *Langmuir*, 22(26), 11022-11027. doi: 10.1021/la0616350
- Zahraoui, A., Touchot, N., Chardin, P., & Tavitian, A. (1989). The human Rab genes encode a family of GTP-binding proteins related to yeast YPT1 and SEC4 products involved in secretion. *The Journal of biological chemistry*, 264(21), 12394-12401.
- Zambon, R. A., Vakharia, V. N., & Wu, L. P. (2006). RNAi is an antiviral immune response against a dsRNA virus in *Drosophila melanogaster*. *Cell Microbiol*, 8(5), 880-889. doi: 10.1111/j.1462-5822.2006.00688.x
- Zamecnik, P. C., & Stephenson, M. L. (1978). Inhibition of Rous sarcoma virus replication and cell transformation by a specific oligodeoxynucleotide. *Proceedings of the National Academy of Sciences of the United States of America*, 75(1), 280-284.

- Zelphati, O., & Szoka, F. C., Jr. (1996). Mechanism of oligonucleotide release from cationic liposomes. *Proc Natl Acad Sci U S A*, *93*(21), 11493-11498.
- Zhang, H. M., Yuan, J., Cheung, P., Chau, D., Wong, B. W., McManus, B. M., & Yang, D. (2005). Gamma interferon-inducible protein 10 induces HeLa cell apoptosis through a p53-dependent pathway initiated by suppression of human papillomavirus type 18 E6 and E7 expression. *Molecular and cellular biology*, *25*(14), 6247-6258. doi: 10.1128/MCB.25.14.6247-6258.2005
- Zhang, J., Johnston, G., Stebler, B., & Keller, E. T. (2001). Hydrogen peroxide activates NFkappaB and the interleukin-6 promoter through NFkappaB-inducing kinase. *Antioxidants & redox signaling*, *3*(3), 493-504. doi: 10.1089/15230860152409121
- Zhou, G., Liang, F. X., Romih, R., Wang, Z., Liao, Y., Ghiso, J., Luque-Garcia, J. L., Neubert, T. A., Kreibich, G., Alonso, M. A., Schaeren-Wiemers, N., & Sun, T. T. (2012). MAL facilitates the incorporation of exocytic uroplakin-delivering vesicles into the apical membrane of urothelial umbrella cells. *Molecular biology of the cell*, *23*(7), 1354-1366. doi: 10.1091/mbc.E11-09-0823
- Zhou, J., & Rossi, J. J. (2012). Therapeutic potential of aptamer-siRNA conjugates for treatment of HIV-1. *BioDrugs*, *26*(6), 393-400. doi: 10.2165/11635350-000000000-00000
- Zhu, L. J., & Altmann, S. W. (2005). mRNA and 18S-RNA coapplication-reverse transcription for quantitative gene expression analysis. *Analytical biochemistry*, *345*(1), 102-109. doi: 10.1016/j.ab.2005.07.028