

SELECTED PUBLICATIONS - RASMUS OTKJÆR BAK

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13. R. O. Bak*, M. H. Porteus. 2017. CRISPR-Mediated Integration of Large Gene Cassettes Using AAV Donor Vectors. **Cell Reports**, 20(3):750-756. IF2016: 8.28. *Co-corresponding author.
12. D. P. Dever, R. O. Bak*, A. Reinisch, J. Camarena, G. Washington, C. E. Nicolas, M. Pavel-Dinu, N. Saxena, A. B. Wilkens, S. Mantri, N. Uchida, A. Hendel, A. Narla, R. Majeti, K. I. Weinberg, M. H. Porteus. 2016. CRISPR/Cas9 β -globin gene targeting in human haematopoietic stem cells. **Nature**, 17;539(7629):384-389. IF2016: 40.14. *Co-first author.
11. D. Hnisz, A. S. Weintraub, D. S. Day, A. L. Valton, R. O. Bak, C. H. Li, J. Goldmann, B. R. Lajoie, Z. P. Fan, A. A. Sigova, J. Reddy, D. Borges-Rivera, T. I. Lee, R. Jaenisch, M. H. Porteus, J. Dekker, R. A. Young. 2016. Activation of proto-oncogenes by disruption of chromosome neighborhoods. **Science**, 351(6280):1454-8. IF2016: 37.21.
10. C. K. Holm, S. H. Rahbek, H. H. Gad, R. O. Bak, M. R. Jakobsen, Z. Jiang, A. L. Hansen, S. K. Jensen, C. Sun, M. K. Thomsen, A. Laustsen, C. G. Nielsen, K. Severinsen, Y. Xiong, D. L. Burdette, V. Hornung, R. J. Lebbink, M. Duch, K. A. Fitzgerald, S. Bahrami, J. G. Mikkelsen, R. Hartmann, and S. R. Paludan. 2016. Influenza A virus targets a cGAS-independent STING pathway that controls enveloped RNA viruses. **Nature Communications**, 19;7:10680. IF2016: 12.12.
9. A. Hendel, R. O. Bak*, J. T. Clark, A. B. Kennedy, D. E. Ryan, S. Roy, I. Steinfeld, B. D. Lunstad, R. J. Kaiser, A. B. Wilkens, R. Bacchetta, A. Tsalenko, D. Dellinger, L. Bruhn, and M. H. Porteus. Chemically modified guide RNAs enhance CRISPR-Cas genome editing in human primary cells. 2015. **Nature Biotechnology**, 33(9):985-9. IF2016: 41.67. *Co-first author.
8. R. O. Bak and J. G. Mikkelsen. 2014. MicroRNA sponges – soaking up microRNAs for regulation of gene expression. **WIREs RNA**, 5:317–333. IF2016: 4.84.
7. Y. Cai, R. O. Bak, and J. G. Mikkelsen. 2014. Targeted genome editing by lentiviral protein transduction of zinc-finger and TAL-effector nucleases. **eLife**, 3:e01911. IF2016: 7.73.
6. Y. Cai, R. O. Bak, L. B. Krogh, N. H. Staunstrup, B. Moldt, T. J. Corydon, L. D. Schrøder, J. G. Mikkelsen. 2013. DNA transposition by protein transduction of the piggyBac transposase from lentiviral Gag precursors. **Nucleic Acids Research**, 1;42(4):e28. IF2016: 10.16.
5. M. R. Jakobsen, R. O. Bak, A. Andersen, R. K. Berg, S. B. Jensen, A. Laustsen, T. Jin, K. Hansen, L. J. Østergaard, K. A. Fitzgerald, T. S. Xiao, J. G. Mikkelsen, T. H. Mogensen og S. R. Paludan. 2013. IFI16 senses DNA forms of the lentiviral replication cycle and controls HIV-1 replication, **Proceedings of the National Academy of Sciences (PNAS)**, 110(48):E4571-80. IF2016: 9.66.
4. R. O. Bak, A. K. Hollensen, og J. G. Mikkelsen. 2013. Managing microRNAs with vector-encoded decoy-type inhibitors. **Molecular Therapy**, 21(8):1478-85. IF2016: 6.69.
3. R. O. Bak, A. K. Hollensen, M. N. Primo, C. D. Sørensen, and J. G. Mikkelsen. 2013. Potent microRNA suppression by RNA Pol II-transcribed ‘Tough Decoy’ inhibitors. **RNA**, 19: 280-293. IF2016: 4.61.
2. R. O. Bak, K. Stenderup, C. Rosada, L. B. Petersen, B. Moldt, F. Dagnæs-Hansen, M. Jakobsen, S. Kamp, T. G. Jensen, T. N. Dam and J. G. Mikkelsen. 2011. Targeting of human interleukin-12B by small hairpin RNAs in xenografted psoriatic skin. **BMC Dermatology**, 11:5. IF2016: N/A.
1. R. O. Bak, and J. G. Mikkelsen. 2010. Regulation of cytokines by small RNAs during skin inflammation. **Journal of Biomedical Science**, vol. 17:53 (1-19) (classified as “Highly accessed” by BMC. 12,073 article accesses). IF2016: 2.80.