

# Functional genomic screening reading list

We've compiled a list of recent publications that utilizes Revvity's functional genomic screening services to enhance scientific research and progress drug discovery. Covering areas around pooled screening, arrayed screening, CRISPR knockouts, CRISPR activation, CRISPR interference, and Dual CRISPRi/a screening that can be applied to your research and workflows.

1. Bellail. A.C, Jin H.R., Lo H.Y., et al. [Ubiquitination and degradation of SUMO1 by small-molecule degraders extends survival of mice with patient-derived tumors](#). Sci Transl Med. 2021 Oct 13;13(615):eabh1486.

**Keywords:** Pooled CRISPRko

2. Cairney C.J., Godwin L.S., Bilsland A.E., et al. [A 'synthetic-sickness' screen for senescence re-engagement targets in mutant cancer backgrounds](#). PLoS Genet. 2017 Aug 14;13(8):e1006942.

**Keywords:** Whole genome siRNA screen; Dharmacon siRNA

3. Gozgit J.M., Vasbinder M.M., Abo R.P., et al. [PARP7 negatively regulates the type I interferon response in cancer cells and its inhibition triggers antitumor immunity](#). Cancer Cell. 2021 Sep 13;39(9):1214-1226.e10.

**Keywords:** Pooled dual CRISPRi/a screen; cell panel screen; OncoSignature single agent screen; Dharmacon reagents; arrayed CRISPR KO screen

4. Grassian A.R., Scales T.M.E. Knutson S.K., et al. [A Medium-Throughput Single Cell CRISPR-Cas9 Assay to Assess Gene Essentiality](#). Biol Proced Online. 2015 Nov 14;17:15.

**Keywords:** Assay development

5. Kizilors A., Pickard M.R., Schulte C.E., et al. [Retroviral insertional mutagenesis implicates E3 ubiquitin ligase RNF168 in the control of cell proliferation and survival](#). Biosci Rep. 2017 Aug 31;37(4):BSR20170843.

6. Le Sage C., Lawo S., Panicker P., et al. [Dual direction CRISPR transcriptional regulation screening uncovers gene networks driving drug resistance](#). Sci Rep. 2017 Dec 18;7(1):17693.

**Keywords:** Pooled Screening

7. Le Sage S., Lawo .S, Cross, B.C.S. [CRISPR: A Screener's Guide](#). SLAS Discov. 2020 Mar;25(3):233-240.

8. Cross B.C.S., Lawo S., Archer C.R., et al. [Increasing the performance of pooled CRISPR-Cas9 drop-out screening](#). Sci Rep. 2016 Aug 22;6:31782.

**Keywords:** Pooled Screening

9. Blanck M., Budnik-Zawilska M.B., Lenger S.R., et al. [A Flexible, Pooled CRISPR Library for Drug Development Screens](#). CRISPR J. 2020 Jun;3(3):211-222.

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