Monday, Sept 27, 2021
DRSC Office Hours on Drosophila Cell Technologies

1. **Links to protocols and other relevant information:**

Xia et al. “CRISPR-based engineering of gene knockout cells by homology-directed insertion in polyploid Drosophila S2R+ cells” *Nature Protocols*
https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7961850/

Bosch et al. “Use of the CRISPR-Cas9 system in Drosophila cultured cells to introduce fluorescent tags into endogenous genes” *Current Protocols in Mol Bio*
https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7213786/

Bosch et al. “Gene Knock-Ins in Drosophila Using Homology-Independent Insertion of Universal Donor Plasmids” *Genetics*
https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6944404/

Viswanatha et al. “Pooled CRISPR screens in Drosophila cells” *Current Protocols in Mol Bio*
https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6961806/

Viswanatha et al. “Pooled genome-wide CRISPR screening for basal and context-specific fitness gene essentiality in Drosophila cells” *eLife*
https://elifesciences.org/articles/36333

List of DRSC CRISPR modified cell lines (e.g., GFP fusions useful for visualizing organelles)
https://fgr.hms.harvard.edu/crispr-modified-cell-lines

Link to DRSC protocols for dsRNA synthesis and cell RNAi
https://fgr.hms.harvard.edu/drsc-cell-rnai

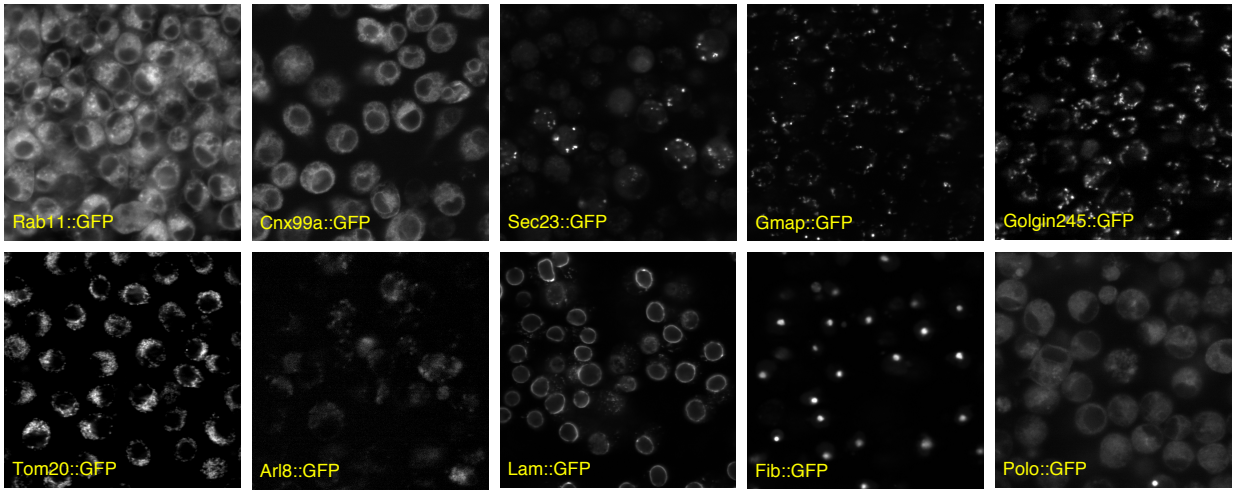
List of DRSC RNAi sub-libraries for arrayed-format screening
https://fgr.hms.harvard.edu/drsc-focused-sub-libraries

Drosophila Genomics Resource Center (cell repository and distribution facility)
https://dgrc.bio.indiana.edu/Home

Launch page for placing orders DRSC amplicons and libraries for cell RNAi
https://fgr.hms.harvard.edu/ordering

Contact us for one-on-one email, phone, or Zoom consultation
stephanie_mohr@hms.harvard.edu

2. **Images from some of the DRSC's GFP knock-in cells (available at the DGRC):**




Find these and other cell lines generated by the DRSC are available at the Drosophila Genomics Resource Center (DGRC) in Bloomington, IN, USA:
https://dgrc.bio.indiana.edu/cells/Catalog
https://dgrc.bio.indiana.edu/Search?category=&query=drsc

3. **DRSC reagent distributions for cell-based arrayed format RNAi:**

- PCR amplicons that can be used to generate dsRNA ("cherry-pick" service)
  - best option for one to several genes
- **Custom 96-well plate of dsRNAs** for fly cell RNAi ("custom IVT" service)
  - good for 45+ genes, 'omics follow-up, many replicates or assays
- **Focused sub-libraries** (kinases, transcription factors, etc.)
  - dsRNA in screen-ready assay plates, 384-well format
- **DRSC 2.0 genome-wide library**
  - dsRNA in screen-ready assay plates, 384-well format

Info page, focused sub-libraries:
https://fgr.hms.harvard.edu/drsc-focused-sub-libraries

Launch page for placing orders for DRSC amplicons and libraries
https://fgr.hms.harvard.edu/ordering