Justin Parker

Science

Molecular biologist with 7 years designing and running assays across academic and industry labs. Comfortable owning a project from hypothesis through publication or regulatory submission package. Strongest in mammalian cell culture, genome-editing screens, and next-gen sequencing workflows.

Contact Information

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Education

Ph.D., Molecular and Cellular Biology, University of Michigan, 2018

B.S., Biochemistry, University of California, San Diego, 2012

Key Skills

- Mammalian cell culture (suspension and adherent)
- Genome-editing screening (arrayed and pooled)
- Flow cytometry and cell sorting (FACSymphony, Sony MA900)
- Sequencing library prep (bulk and single-cell 10x)
- Bioinformatics (R, Python, Nextflow, Seurat, DESeq2)
- Confocal and live-cell imaging
- Immunoassays, Western blot, qPCR
- Scientific writing and peer review
- Electronic lab notebooks (Benchling, LabArchives)

Professional Experience

Scientist II, Functional Genomics | Northline Therapeutics, Cambridge, MA
2021 – Present

- Designed and executed a genome-wide knockout screen in acute myeloid leukemia cell lines that identified 14 candidate synthetic-lethal targets, three of which advanced into medicinal chemistry.
- Rebuilt the group's variant-calling pipeline in Nextflow, cutting turnaround on a standard exome from about 9 hours to under 2.
- Wrote the assay-validation section for two regulatory submission packages under quality-controlled standards.
- Mentored two research associates through onboarding on flow cytometry and single-cell library prep.
- Represented the team in cross-functional target review meetings with chemistry and translational sciences.

Postdoctoral Research Fellow | Whitfield Lab, Boston University, Boston, MA
2018 – 2021

- Investigated non-coding transcript regulation of hematopoietic stem cell fate using single-cell sequencing and lineage tracing in mouse models.
- First author on a paper in Cell Reports (2020) describing a novel long non-coding transcript and transcription factor axis in erythroid differentiation.
- Presented at a national hematology society annual meeting and two Gordon Research Conferences.
- Wrote sections of a successful R01 renewal, contributing preliminary data and a specific aim.