

THE FOLLOWING CONTAINS LITERATURE ON GENOTYPING FOR MODEL ORGANISMS

TITLE: “A review on genotyping for model organisms”

- a) **Title:** High-throughput genotyping of high-homology mutant mouse strains by next-generation sequencing

DOI: <https://doi.org/10.1016/j.ymeth.2020.10.011>

Year Published: 2021

Why this paper?

- Model organism of interest: mice/CRISPR mutant mice

- b) **Title:** A new mouse SNP genotyping assay for speed congenics: combining flexibility, affordability, and power

DOI: <https://doi.org/10.1186/s12864-021-07698-9>

Year Published: 2021

Why this paper?

- Introducing “Allegro Targeted Genotyping method”, an NGS (Illumina platforms) based method design for efficient, high-throughput SNP genotyping and analysis
- It combines enzymatic fragmentation, dimer-free adaptor ligation, and Single Primer Enrichment Technology (SPET)

- c) **Title:** A cost-effective, high-throughput, highly accurate genotyping method for outbred populations

DOI: <https://doi.org/10.1093/g3journal/jkae291>

Year Published: 2024

Why this paper?

- Introducing double digest genotyping by sequencing (ddGBS), and low coverage whole genome sequencing (lcWGS) versus high coverage

whole genome sequencing (hcWGS), aiming for a cost-effective, high-throughput, and high-accuracy genotyping technique