**Generation 1:** Random sample of a single male from the reconstituted outbred population

**Generation 2:** Hemiclone capture by randomly choosing a single male from generation 1

**Hemiclone amplification:** Cross multiple hemiclone males with multiple CG females

**Creating hemiclone families:** Hemiclone males randomly mated with females from the base population

**Test Females:** Half sisters all sharing the same set of paternal chromosomes