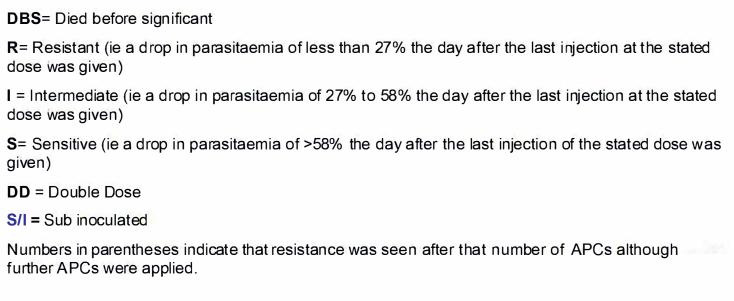
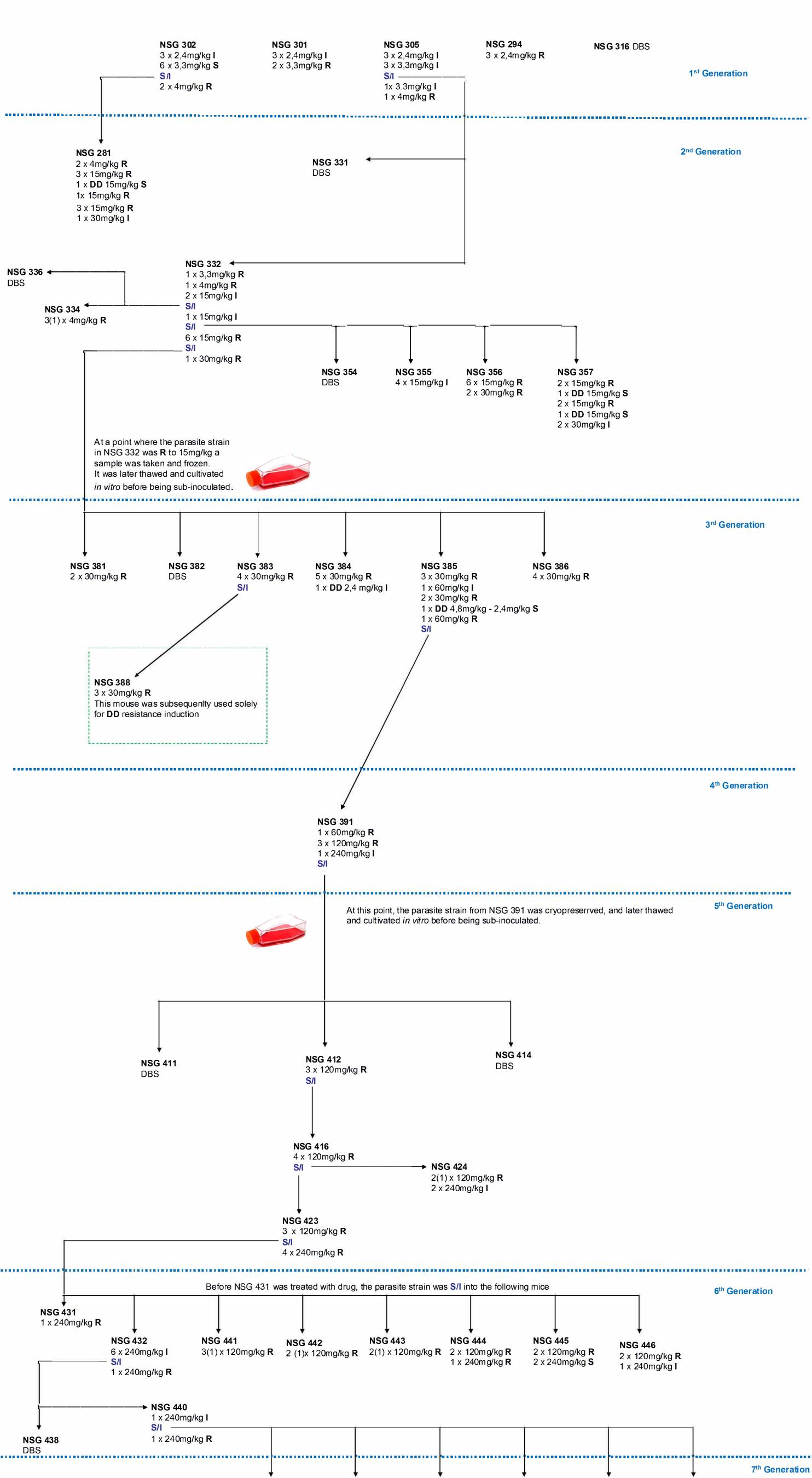
## **Evolution of Single-Dose Resistant Strain**





## Additional File 3: Selection Schema for Single-Dose Resistant Strain

shortly after infection, and their parasitemia trends were not interpretable.

**NSG 469** 

1 x 240mg/kg **R** 

**NSG 473** 

2 x 240mg/kg **R** 

**NSG 478** 

1 x 240mg/kg **R** 

**NSG 481** 

1 x 240mg/kg R

**NSG 485** 

1 x 240mg/kg **R** 

**NSG 482** 

1 x 240mg/kg **R** 

The lineage of the single-dose ART-R strain, and the pattern of drug-pressure applied as it was passed through 43 mice over 7 generations is demonstrated schematically. Each mouse is represented by an NSG number; the number of APCs that the parasite was exposed to at each dose and the resultant response is indicated underneath each NSG number in the manner. APCs x dose, response. Numbers appearing inparentheses after the APC figure indicate that resistance was first seen after that number of exposures, but further APCs were administered. The response shown refers to the drop in parasitemia seen the day following the last AS administration at the stated dose; drops >58%, 27-58%, and <27% were classified as sensitive (S), intermediate (I), or resistant (R) respectively. Black lines with arrow-heads indicate the point at which parasitized blood was drawn from one mouse and subinoculated (S/I) into another. Mice that died before becoming experimentally significant (DBS) expired