Parker Lab Key to Rat Lung Samples/Groups

Three separate experimental questions:

Experiment 1 – How do antibiotic and route of delivery affect microbiome of left lungs (no aspirations)?

* Group 1 No antibiotics, Sample numbers NLU1 through NLU9
* Group 2 SuqQ antibiotics, Sample numbers ASNLU1 through ASNLU14
* Group 3 IV antibiotics, Sample numbers AINLU1 through AINLU12
* Group 4 Oral antibiotics, Sample numbers APNLU1 through APNLU12

Experiment 2 – How does aspiration affect microbiome of lungs (left lung aspiration only, no antibiotics)?

* Group 5a Saline aspiration to left lung only, Sample numbers SLU1 through SLU11 for left lung
* Group 5b Saline aspiration to left lung only, Sample numbers SRU1 through SRU11 for right lung (non-aspirated lung from same animal as 5a)
* Group 6a Whole gastric fluid aspiration to left lung only, Sample numbers WLU1 through WLU12 for left lung
* Group 6b Whole gastric fluid aspiration to left lung only, Sample numbers WRU1 through WRU12 for right lung (non-aspirated lung from same animal as 6a)
* Group 7a Irradiated gastric fluid aspiration to left lung only, Sample numbers ILU1 through ILU12 for left lung
* Group 7b Irradiated gastric fluid aspiration to left lung only, Sample numbers IRU1 through IRU12 for right lung (non-aspirated lung from same animal as 7a)

Experiment 3 – How does antibiotic use affect microbiome of aspirated lungs (left lung aspiration only)?

* Group 5a No antibiotics, Saline aspiration to left lung only, Sample numbers SLU1 through SLU11 for left lung
* Group 5b No antibiotics, Saline aspiration to left lung only, Sample numbers SRU1 through SRU11 for right lung (non-aspirated lung from same animal as 5a)
* Group 8a No antibiotics, Whole gastric fluid aspiration to left lung only, Sample numbers WLU13 through WLU24 for left lung
* Group 8b No antibiotics, Whole gastric fluid aspiration to left lung only, Sample numbers WRU13 through WRU24 for right lung (non-aspirated lung from same animal as 8a)
* Group 9a SubQ antibiotics, Whole gastric fluid aspiration to left lung only, Sample numbers ASWLU1 through ASWLU12for left lung
* Group 9b SubQ antibiotics, Whole gastric fluid aspiration to left lung only, Sample numbers ASWRU1 through ASWRU12 for right lung (non-aspirated lung from same animal as 9a)