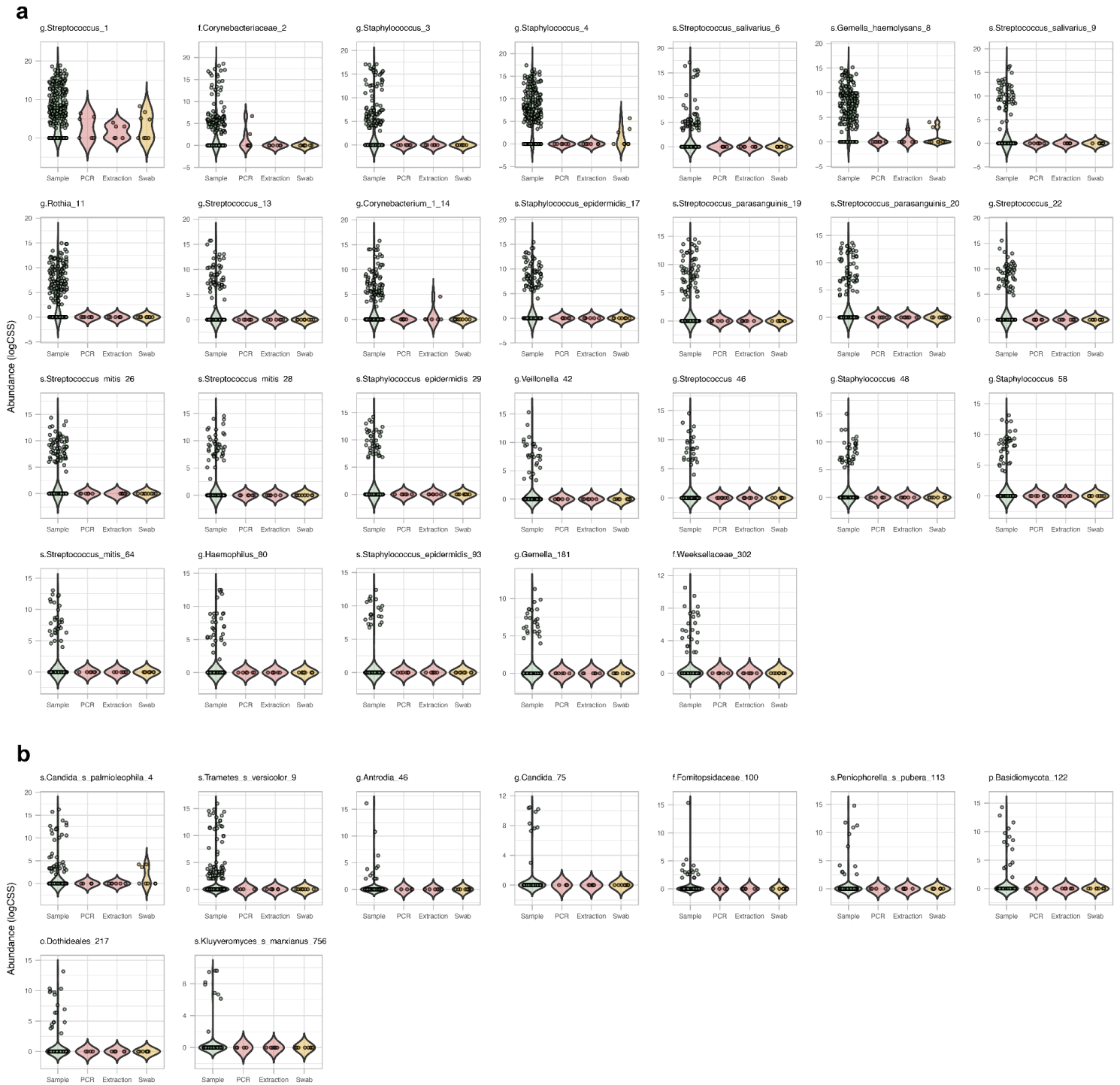


## Supplementary Information

### Early life inter-kingdom interactions shape the immunological environment of the airways

<b>Metadata</b>	<b>Median (IQ range) / Number (%)</b>
Postnatal age (days)	8 (7-8)
Gestational age at birth (weeks)	39 (39-40)
Weight at birth (gr)	3346 (3042-3672)
Ethnicity	93 White British (77%), Other (23%)
Sex	65 (54%) Female, 56 (46%) Male
Delivery mode	67 (55%) Vaginal, 54 (45%) C-section
Breastfeeding (first week)	87 (72%) Yes, 34 (28%) No
Country of birth	69 (57%) England, 52 (43%) Scotland
Antibiotics during pregnancy	121 (100%) No treatment
Postnatal antibiotics	121 (100%) No treatment

**Supplementary Table 1.** Participants baseline characteristics. Values represent medians with interquartile range for continuous variables and absolute numbers with percentages for categorical variables.



**Supplementary Figure 1. a** Relative abundance of differentially abundant bacterial genera in samples versus negative controls (logCSS). **b** Corresponding plots for fungi.