



130 Preterm Infants Enrolled

- Gestational Age \leq 33 weeks
- Birth weight > 950g



24 Well Sampled Infants



x 4 NEC



x 3 LOS



x 17 control

Collection of the longitudinal fecal samples

- started right after birth
- ended at discharge/decease



x 45 NEC samples

- NEC#1: 18 samples
- NEC#2: 8 samples
- NEC#3: 13 samples
- NEC#4: 6 samples



x 44 LOS samples

- LOS#1: 15 samples
- LOS#2: 16 samples
- LOS#3: 13 samples



x 103 control samples



Sequencing & Analysis

- 16s rRNA gene sequencing
- QC, OTU clustering
- Diversity analysis
- Composition analysis