Genotype Genome sequencing from NIPT N=121,579

Blood lipid & Glycemic (N=8) Blood routine (N=32)

Infection (N=14)

Liver, Kidney & Thyroid function (N=15)

Tang & NIPT screen (N=19)

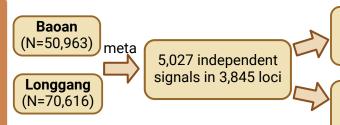
Phenotypes

Basic information (N=7)

Birth outcome (N=6)

Gestational disorders (N=21)

association Genetic



Consistency

Baoan vs Longgang (N=121,579)

External replication

NIPT PLUS (N=5,733) Baoan 20K (N=20,891)

Genome-wide association study

24 gestational phenotypes with multiple measurements in 5 periods

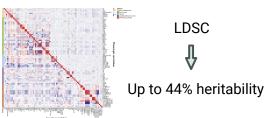
TrajGWAS

localized association

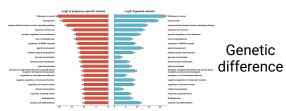
GWAS of longitudinal trajectories

Post-GWAS





Different variant analysis



Mendelian randomization

