

Each main or supplementary figure is associated with a dedicated folder under *Recovery_code/*, which contains the exact commands required to reproduce the results.

Table 1. Summary of datasets, recovery schemes, and corresponding experiments

Dataset	Recovery scheme	Experiment
Exp-1	Bit-wise probability generation	Figure 3
Exp-2		
Exp-3		
Exp-4		
Sim-1	Type I+II Reads-FBA/ Bit-wise probability generation	Figure 4
Sim-2		
Sim-3		
Sim-4		
Sim-9	Type I+II+III Reads-FBA/ Bit-wise probability generation	Figure 5
Exp-10		
Exp-5	Bit-wise probability generation	Figure S23
Exp-6		
Exp-7		
Exp-8		
Exp-13	Bit-wise probability generation	Figure S25
Sim-1	Type I+II Reads-FBA/ Bit-wise probability generation	Figure S33
Sim-2		
Sim-3		
Sim-4		
Sim-5		
Sim-6	Type I+II Reads-FBA/ Bit-wise probability generation	Figure S34
Sim-7		
Sim-8		
Sim-9		
Sim-10		
Sim-1	Type I+II+III Reads-FBA/ Bit-wise probability generation	Figure S41
Sim-2		Figure S42
Sim-3		Figure S43
Sim-4		Figure S44
Sim-6	Type I+II+III Reads-FBA/ Bit-wise probability generation	Figure S45
Sim-7		Figure S46
Sim-8		Figure S47
Sim-9		Figure S48
Sim-5		Figure S49
Sim-10	Bit-wise probability generation	Figure S50
Exp-9	Type I+II+III Reads-FBA/ Bit-wise probability generation	Figure S53
Exp-10		Figure S55
Exp-11		Figure S57
Exp-12		Figure S59