

Batch Effect Correction

MNN Correction

Mutual nearest neighbors for batch alignment

Harmony Algorithm

Iterative clustering and correction

LIGER Integration

Integrative non-negative matrix factorization

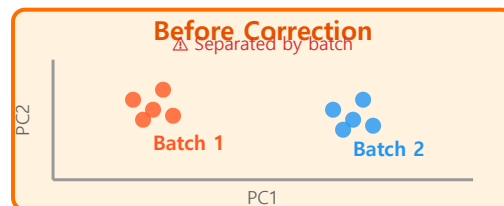
Seurat Integration

Canonical correlation analysis + anchors

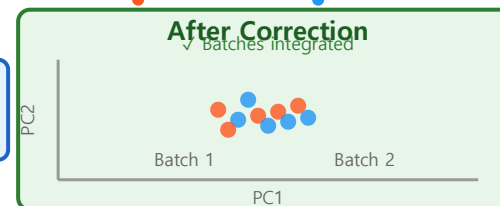
Benchmark Studies

Compare methods on simulated and real data

💡 Critical for multi-sample and multi-technology integration



Correction
MNN/Harmony
LIGER/Seurat



Integration Goals

- ✓ Mix batches
- ✓ Preserve biology
- ✓ Keep cell types
- ✓ Remove technical

Balance is key!