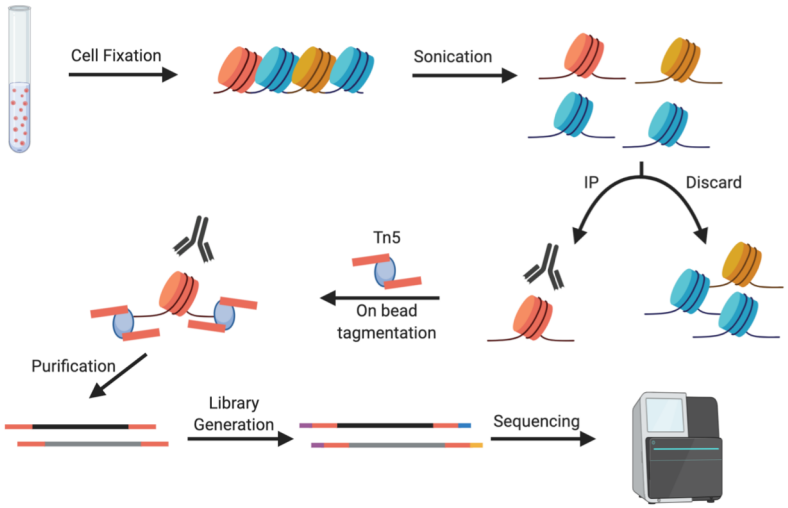
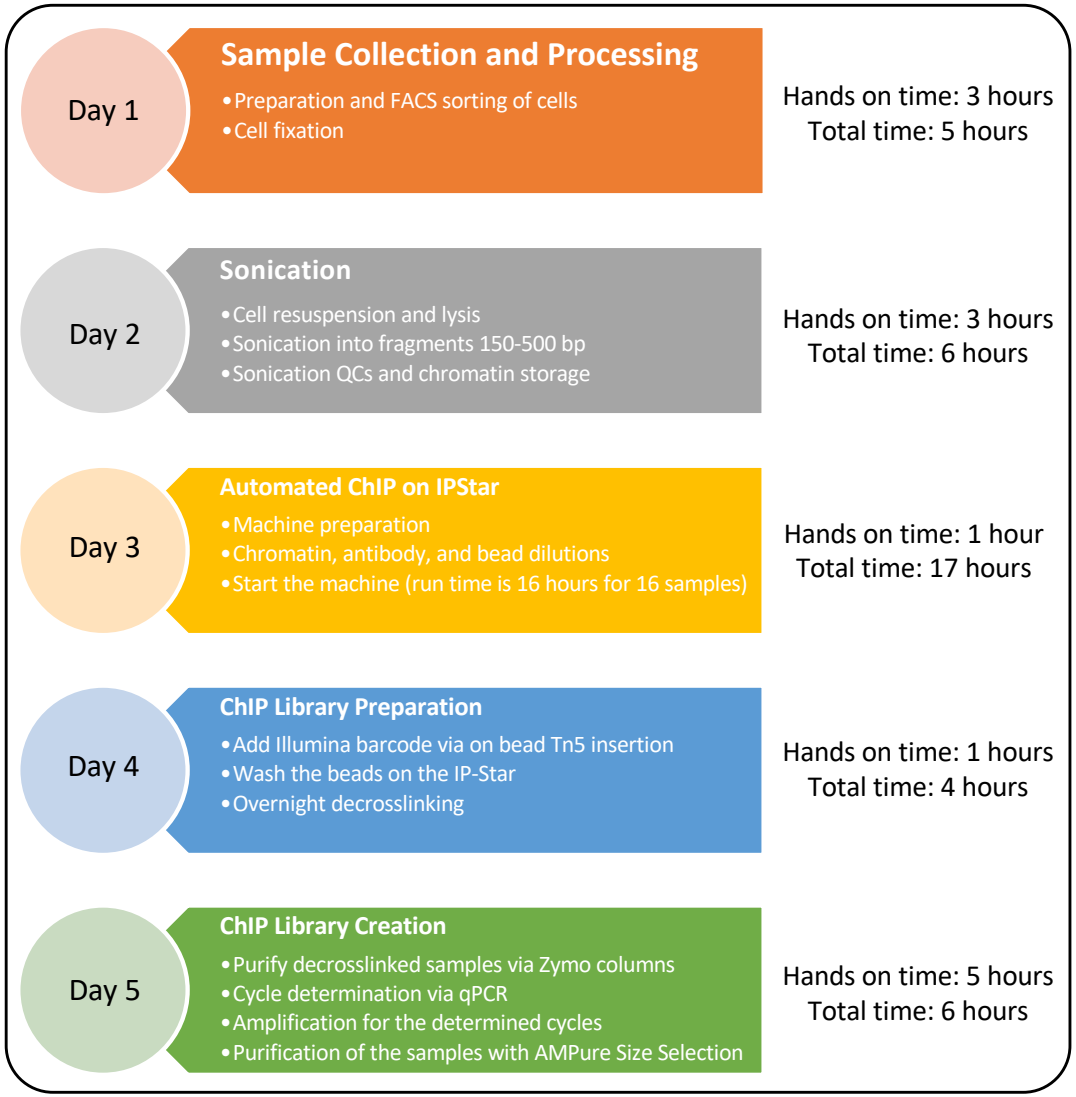
Figure 1

A.


Cell Fixation
Sonication
IP
Discard
Tn5
On bead
tagmentation
Purification
Library
Generation
Sequencing

B.


Day 1
Sample Collection and Processing
•Preparation and FACS sorting of cells
•Cell fixation
Hands on time: 3 hours
Total time: 5 hours
Day 2
Sonication
•Cell resuspension and lysis
•Sonication into fragments 150-500 bp
•Sonication QCs and chromatin storage
Hands on time: 3 hours
Total time: 6 hours
Day 3
Automated ChIP on IPStar
•Machine preparation
•Chromatin, antibody, and bead dilutions
•Start the machine (run time is 16 hours for 16 samples)
Hands on time: 1 hour
Total time: 17 hours
Day 4
ChIP Library Preparation
•Add Illumina barcode via on bead Tn5 insertion
•Wash the beads on the IP-Star
•Overnight decrosslinking
Hands on time: 1 hours
Total time: 4 hours
Day 5
ChIP Library Creation
•Purify decrosslinked samples via Zymo columns
•Cycle determination via qPCR
•Amplification for the determined cycles
•Purification of the samples with AMPure Size Selection
Hands on time: 5 hours
Total time: 6 hours