



**Supplementary Figure S2. Custom integrated Agilent Technologies BioCel 1200 liquid handling automated platform for high throughput single cell genomics.** The BioCel platform allows processing of more than 5,000 single cells per week through a multi-stage protocol that includes multiple displacement amplification (MDA) of DNA, MDA dilution and 16S rDNA PCR, MDA and PCR hit picking, Picogreen (Life Technologies) DNA quantitation, 16S Syto 9 (Life Technologies) melt curve assay, 16S rDNA Taqman qPCR, and SAP/Exonuclease I (Affymetrix) PCR treatment. All liquid handling is performed on the BioCel with the BioRAPTR (Beckman Coulter) and Bravo (Agilent) performing non-contact dispensing and liquid transfer steps, respectively. The MDA isothermal reaction and PCR are performed offline on GeneAmp PCR system 9700 thermocyclers (Applied Biosystems), while TaqMan or melt curve analysis are performed in-line on the ABI 7900HT (Applied Biosystems). The platform includes barcode tracking of 384-well plates, and is integrated with a JCVI Laboratory Information Management System (LIMS).