Method S5. Whole genome amplification of single cell DNA using the Single Cell WGA Kit (WGAN, New England Biolabs, E2620S/L)

Isolation of single cells :

- Coat the bottom of a petri dish with FCS, dilute cell suspensions with 1x PBS to achieve a density of one cell per visual field under an inverse microscope with 100x magnification
- Use 1 µl pipette to isolate a single cell
- Transfer single cell into 4 µl Cell Extraction Buffer

Whole genome amplification:

- Add 5 µl Extraction Cocktail to each cell and incubate for 10 min at 75°C and 4 min at 95°C in a thermal cycler
- Transfer cells on ice and add 5 µl Pre-Amp Cocktail to each cell
- Preamplification is performed with the following thermal cycler program:

  95°C for 2 min
  95°C for 15 sec
  15°C for 50 sec
  25°C for 40 sec
  35°C for 30 sec
  65°C for 40 sec
  75°C for 40 sec
  } 12 x

- Place samples on ice
- Add 60 µl Amplification Cocktail to the 15 µl preamplification product
- Amplification is performed with the following thermal cycler program:

  95°C for 2 min
  95°C for 15 sec
  65°C for 1 min
  75°C for 1 min
  } 14 x

- Store PCR products at -20°C