

## Task 2: Alignment

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HISAT2 on Galaxy was used for alignment. There are totally 12 samples (6 fetal vs. 6 adult) available. However, due to the resource limitation, only half of them (3 fetal vs. 3 adult) were chosen to be analyzed.

### **Fetal**

#### **SRR1554537**

55133946 reads; of these:

55133946 (100.00%) were paired; of these:

474170 (0.86%) aligned concordantly 0 times

52684816 (95.56%) aligned concordantly exactly 1 time

1974960 (3.58%) aligned concordantly >1 times

#### **SRR1554538**

68026190 reads; of these:

68026190 (100.00%) were paired; of these:

549305 (0.81%) aligned concordantly 0 times

65058884 (95.64%) aligned concordantly exactly 1 time

2418001 (3.55%) aligned concordantly >1 times

#### **SRR1554541**

69278357 reads; of these:

69278357 (100.00%) were paired; of these:

561488 (0.81%) aligned concordantly 0 times

66402692 (95.85%) aligned concordantly exactly 1 time

2314177 (3.34%) aligned concordantly >1 times

## Adult

### **SRR1554535**

38063721 reads; of these:

38063721 (100.00%) were paired; of these:

533477 (1.40%) aligned concordantly 0 times

36345262 (95.49%) aligned concordantly exactly 1 time

1184982 (3.11%) aligned concordantly >1 times

### **SRR1554536**

21450348 reads; of these:

21450348 (100.00%) were paired; of these:

141926 (0.66%) aligned concordantly 0 times

20543060 (95.77%) aligned concordantly exactly 1 time

765362 (3.57%) aligned concordantly >1 times

### **SRR1554539**

33742728 reads; of these:

33742728 (100.00%) were paired; of these:

503288 (1.49%) aligned concordantly 0 times

32420443 (96.08%) aligned concordantly exactly 1 time

818997 (2.43%) aligned concordantly >1 times