**General guideline for NGS applications**

**RNA Sequencing**

 **- Gene expression profile 10M**

 **- Alternative splicing/fusion 20-50M**

 **- Novel gene discovery 50-100M**

**Small RNA Sequencing**

 **- Expression profile 1-2M**

 **- Novel small RNA discovery 10-20M**

**ChIP Sequencing**

 **- TF 5-15M**

 **- Chromatin modification 50-90M**

**Exome Sequencing**

 **- Genetic disorder 100X**

 **- Cancer mutation identification >1000X**