**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**