高速シーケンサー支援案内
NextSeq 1000 Mar, 2025

1.Sample Requirement

sequence application	method	sample type	amount	volume	quality control requirement
bulk RNA-Seq	polyA-selected (mRNA)	total RNA	> 10 ng	< 50 µl	RIN > 8.0
	rRNA-removed (mRNA, lncRNA)		> 10 ng	< 15 ul	RIN > 8.0
	for Low Input RNA (mRNA)		2 pg - 200 ng	< 15 ul	RIN > 7.0
Fragmented DNA → Library Preparation		DNA	> 500 pg	< 50 ul	
Library Sequencing *Share-sequencing		Library DNA	> 10 µl	concentration 2 nM / sample	Quantification by qPCR and Size-check by TapeStation or BioAnalyzer
Pool library sequencing (independent 1 run)		Library DNA	> 20 µl	concentration 2 nM / pool	

＊RNA-Seq以外のライブラリー調製についてはご相談ください。

2. Charge

(1) Library Preparation

application	price/sample
RNA-Seq (polyA-selected)	15,000
RNA-Seq (rRNA-removed)	rRNA depletion kit 購入 + 10,000
Low Input RNA	20,000

(2) QC (total RNA, Library DNA, etc)

price/set
10,000 ～ 20,000

(3) Sequence (NextSeq 1000)

sequence kit	price/run
P2 XLEAP-SBS Reagent Kit (100 cycles)	160,000

(4) Maintenance & Analysis

price/run
40,000

＊相乗りの場合はサンプル数に応じて配分
＊年間 10 run 以降は￥10,000/run

3. Sequence Performance of NextSeq 1000

sequence kit	read length(bp)	total reads/run	application
P2 XLEAP-SBS Reagent Kit (100 cycles)	50 x 2	400 M pair	RNA, ATAC, ChIP, CUT&Tag, CUT&RUN, etc
	28 + 10 + 10 + 90	400 M pair	10x Genomics scGEX, Multiome-GEX (1 sample)
	50 + 8 + 16(24) + 50(49)	400 M pair	10x Genomics scATAC, Multiome-ATAC (1 sample)
*P2 XLEAP-SBS Reagent Kit (200 cycles)	100 x 2	400 M pair	
*P2 XLEAP-SBS Reagent Kit (300 cycles)	150 x 2	400 M pair	*依頼者が持ち込み
*P2 XLEAP-SBS Reagent Kit (600 cycles)	300 x 2	400 M pair	

Output Data	FASTQ

＊ご希望があればRaw data(ランフォルダ全体)の返却も致します。
＊シーケンスデータ返却後のデータ紛失に関しては、LILAIは一切の責任を負いません。
シーケンスラン後のRaw data, Fastq dataは、原則としてランから半年経過時に削除します。
必ず依頼者ご自身でのデータ保管をお願いします。

Basic analysis

RNA-Seq	Mapping → Calculate gene expression
ChIP, ATAC, CUT&Tag, CUT&RUN	Mapping → Peak call
10x Genomics single cell	1st analysis by Cell Ranger