Overview

1. IGC Mission
2. Services Provided
3. Current & Proposed Equipment
4. Equipment in Detail & Cost
5. Data Analysis
IGC Mission
IGC Mission

*Provide a total solution of genomics research from consultancy to experiments to data analysis.*

Sample ➔ Figure
Services Provided
Services Provided

1. Sequencing
   a) Genome (WGS, exon, mutation detection, etc.)
   b) Transcriptome
   c) Epigenome (cut & run, cut & tag)
   d) Amplicon

2. Single Cell Genomics & RNA-Seq
Current & Proposed Equipment
Current Equipment

• NextSeq2000
• TapeStation
• PCR Hood
• Qubit
• Multi-Channel/Electronic Pipets
NextSeq2000
Tape Station
PCR Hood
Qubit
Multi-Channel/Electronic Pipets
Proposed Equipment

Chromium X: High-throughput single cell analysis

Namocell: Low input single cell sorter/dispenser

Introduction videos looping in front of the room
Equipment in Detail & Cost
## NextSeq2000 Sequencer

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Maximum Output</strong></td>
<td>120 Gb (with P2 reagents)</td>
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<tr>
<td></td>
<td>360 Gb (with P3 reagents)</td>
</tr>
<tr>
<td><strong>Maximum Reads per Run</strong></td>
<td>Up to 400M single reads (with P2 reagents)</td>
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<tr>
<td></td>
<td>Up to 1.2 billion single reads (with P3 reagents)</td>
</tr>
<tr>
<td><strong>Nucleic Acid Type</strong></td>
<td>RNA, DNA</td>
</tr>
<tr>
<td><strong>Run time</strong></td>
<td>11-48h</td>
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Sequencing Cost

Whole Run Cost

$3,151
No wait time (1 day turnaround)

Sample Pooling & Collaborative Reduction of Expenses

$50 / RNA-seq sample
Pooling by us (Wait time varies)
TapeStation Cost

• A fast, automated, and flexible solution for samples size and concentration quantification
• 1-96 samples, 1 min per sample
• DNA and RNA samples, 2μL input
• Detection of 35-60,000 bp as low as 5 pg/μL

Cost Per Sample: $4
10x Genomics High-Throughput Single-Cell RNA-seq

- Lead time: 2 weeks
- Minimal requirement:
  - Cell/nuclei suspensions 1,000 cells/μL >20μL
  - 10,000 target cells per sample

Cost Per 10,000 Cells: $1,878
Data Analysis
Data Analysis

- RNA-seq
- DNA-seq
- Cut & Run
- Cut & Tag
- Single-Cell RNA-seq
- Etc.
Contact us!

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