Novogene Corporation, Inc.

Company Overview

Etiqueta en Instagram Merogene #drnovoinargentina















Novogene is committed to pioneering applications of cutting-edge molecular biology technology and high-performance, computing in the fields of life science research and human health. Our vision is to become the global leader in providing genomic services and solutions.

Science and Technology Innovation Board stock code: 688315

| 11 | 5 | ~70 | 2000+ | 400+ | 5900+ |
|-----------------------|----------------------|-----------------------|---------------------|---------------|------------------|
| years of careful work | central laboratories | countries and regions | full-time employees | R&D personnel | global customers |

World-Wide Presence

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🙊 Mission

Advancing Genomics, Improving Life

Leveraging on the genetic technologies and advancement, our mission is to improve the ecosystem of all living things through deciphering the code of life and improving health.

🕱 Vision

To be the global leader in providing genomic services & solutions.

Juliu Later

Encompassing the entire genomics value chain, we strive to become the global leader in providing advanced genomic services and solutions. We aim to continually enhance the values and expand the range of our services and solutions.

🗇 Corporate value

Professionalism, Innovation, Integrity, Partnership



Professionalism:Be professional in our work,Build a professional team Innovation: We embrace change,We dare to make mistakes Integrity: Commitment to our colleagues, Commitment to our customers Partnership: Create a win-win situation with our external partners,Create a win-win situation with our internal partners



Covers 99% of the worlds top 100 scientific research institutions Works with 9 of the top 10 global pharmaceutical companies

3,150⁺ research institutes and universities *600*⁺

hospitals

2,100⁺

enterprises

University ranking source: Nature index 2020 annual tables

Pharmaceutical ranking source: Calculated by a third-party institution based on public financial data for 2020

Madurate



Caisson

Nature Nature Communi-Genetics cations 19 **SCI** articles Nature **PLoS** Genome Ecology & Genetics Research Evolution $6,120^{+}$ cumulative impact factor Scientific Genome Science Biology Reports

Note: As of Dec. 2021

"We're very happy with the **excellent level of service** we've received from Novogene. Our research focuses on aging and its relation to genomic stability and we frequently use Novogene's whole genome, RNA, and bisulfite sequencing services to support our research. We are always impressed with the **high quality data** they provide as well as their highly competitive prices. Their **turnaround times** are also much faster than other sequencing labs we have tried in the past. We have been extremely satisfied with Novogene and will continue to use their services in the future."

——Jan Vijg, Ph.D. Professor and Department Chair, Department of Genetics, Albert Einstein College of Medicine, New York, USA

"I have been getting great results with Novogene NGS for **a wide variety of samples**, ranging from highly degraded, ancient animal DNA samples to longer, fresh human DNA samples. Their **rapid turn-around time** keeps our projects moving at a fast pace and they have **quick-to-respond**, expert support when required."

> ——Tim Heupink, Ph.D. Research Fellow, Environmental Futures Research Institute, Griffith University, Brisbane, Australia



29

years





Average employee age



Employees with advanced degrees

16_{countries}

Employee nationalities







Our focus: High quality service and customer satisfaction 75% of our employees have advanced degrees.

October 28, 2022



FFF

Technological Platforms and Capabilities







Biopharma Services

• Discovery and Pre Clinical | Translational and Clinical | Companion Diagnostics





Advanced and comprehensive technology platform for large-scale and diverse needs



World's Largest Sequencing Capacity



Intelligent production center for efficient and stable delivery

FALCON fully automated, agile, and intelligent delivery system in operation 24/7

| Vogene в жала и на | 5 major standardized solutions, and more on the way | Delivery cycle reduced by 60% |
|---|--|--------------------------------------|
| The world-leading intelligent and flexible production system in the NG Novogene has developed a global intelligent and flexible production system to ensure a fast turnaround | 66 sophisticated devices, from sample extraction to information analysis End-to-end automation | Reduces labor costs by 70% |

Nevogene

Service Portfolio for Global Researchers

Human Genome Sequencing

- Whole genome re-sequencing
 - Whole exome sequencing
- Single-cell DNA sequencing
- Target region sequencing

Transcriptome & Epigenome

mRNA sequencing
Single-cell RNA sequencing
IncRNA, circular & small RNA sequencing
Isoform sequencing (Iso-Seq)
Whole genome bisulfite sequencing
Chip-Seq

Animal & Plant Genome Sequencing

- Animal & Plant re-sequencing
 - Pan-genome sequencing
- Animal & Plant de novo sequencing

Nevogene

Microbial Genome Sequencing

- Microbial genome re-sequencing
- Microbial de novo sequencing
 - Metagenomic sequencing
- 16S/18S/ITS amplicon sequencing

October 28, 2022



Standardized and world-class laboratories around the world

Science and technology service laboratories

- ISO 9001
- Laboratory SOP

Medical testing laboratories

- U.S. CLIA standards
- European ISO/IEC 17025
- CAP NGS certification

Medical device production centers

- ISO 13485
- GMP Class 100,000 Cleanroom (ISO 8/Grade D)
- Medical device manufacturing license (Class I, II, and III)



Nevogene

World-class data centers for fast, accurate, and secure data delivery

Over 180 bioinformatics engineers

92TB total RAM

22.5PB local storage

100PB cloud storage

Peak computing speed: 620Tflops





Novaseq X

Ultrahigh-density patterned flow

Cells2XFaster cycleLongertimereads

3X Accuracy increase

- Ultrahigh-resolution imaging high-efficiency sequencing from 1.6 billion to 52 billion single reads per run
- Advanced base-calling algorithms





Comparison – Throughput per Run





Figure 2: Maximize sequencing output with the NovaSeq X Plus system—Comparison of maximum output per single run in billions of reads for the NovaSeq X Plus system (dual 25B flow cell run), the NovaSeq X system (single 25B flow cell run), and the NovaSeq 6000 system (dual S4 flow cell run).¹

Comparison – Throughput per single FC per hr



Figure 3: The NovaSeq X series offers maximum sequencing throughput—Comparison of output per single flow cell per hour for NovaSeq X series 1.5B, 10B, 25B flow cells, NovaSeq 6000 SP, S1, S2, S4 flow cells,¹ and the HiSeq X Ten.² From the first \$1000 genome to today, Illumina continues to transform the economics of high-throughput sequencing.



Comparison – Sustainability



The NovaSeq X and NovaSeq X Plus systems were purposefully designed to reduce environmental impact. the improved robustness and stability of XLEAP-SBS reagents, including allows for shipping and storage in lyophilized form.

- Save time and money with a 90% reduction in packing weight and waste
- Over 50% reduction in cartridge volume to optimize freezer and storage space
- Save disposal costs with more recyclable plastics and no dry ice or ice packs
- Components such as a plant-based bioplymer cartridge add to sustainability
- Vast improvements in shipping and receivable consumables. Smaller footprint and ambient temperatures save time and space.



In comparison to NovaSeq 6000

THANK YOU