illumina® | EMEDGENE

Unlock genomic insights

Increase efficiency and confidence with explainable-AI (XAI) and automation to support your tertiary analysis clinical research workflows

Emedgene streamlines and integrates variant interpretation through report generation workflows that you define.

Trusted by leading institutions

BAYLOR GENETICS

SickKids®

MAYO CLINIC

Greenwood Genetic Center

fleury medicina e saúde | Genômica

Confidently scale tertiary analysis clinical research workflows

Streamlined

Save valuable time through the application of XAI and customizable automation by as much as 75% per subject

Integrated

Connect with LIMS and other health IT systems to simplify and secure the complete assay workflow

Powered for growth

Confidently keep pace with evolving science, technology and demand supported by a team of experts

Powerful core AI technology applied across diverse use cases

Launch assays

Implement a high-throughput genome (WGS), exome (WES), virtual panel, or targeted panel workflow that is integrated into your lab's digital ecosystem.

Expand menu

Broaden your analysis to WGS or WES or standardize panels on a backbone assay; analyze across a range of variant types—SNVs, indels, CNVs, mtDNA, SVs, and STR variants.

Scale volume

Increase throughput without increasing headcount using XAI and automated workflows.

Share curated knowledge

Leverage the power of collaboration to share knowledge across a private network of labs.

The role of AI in genomics is to reduce noise and highlight data with the most evidence

Efficiency

Support scale and efficiency gains

Time per subject

Reduce turnaround time and costs

Accuracy

Confidently prioritize variants across applications

All the enterprise features needed for smooth adoption, integration, and operation

Automated ACMG classification

Save as much as 90% of classification time with automated classification for SNVs, indels, and CNVs.

Broad portfolio of tests and variant types

Support your interpretation of SNVs, indels, CNVs, SVs, STRs, and mtDNA from WGS, WES, targeted panels, or virtual panels.

SOP and advanced filters

Implement your standard operating procedure (SOP) on the platform by creating sets of predefined custom filters or use our advanced filtering system.

Knowledge management

Maintain a knowledge base of your organization's curated and tagged genomic data.

Streamlined workflow and collaboration

Implement a customized workflow for your lab and facilitate team communications.

Automated custom reporting

Customize, edit, and automatically populate reports; no HTML required and minimal manual work.

Powerful API interoperability

Automate workflows with API integrations to leading LIMS, storage, pipelines, and more.

Share curated knowledge

Securely share curated variants across a private network of labs and facilitate team communications.

Integrate and streamline your research workflows from library prep, sequencing, and data analysis

Webinar

Breaking the Interpretation Bottleneck
Dr. Linyan Meng, Baylor Genetics, presents a joint study demonstrating 97% accuracy in pinpointing causative variants with AI

Publication

Nature Genomic Medicine
Boston Children's Hospital incorporates Emedgene in their clinical research genomics initiative

Publication

American Journal of Medical Genetics
Brazilian healthcare giant Fleury increases yield with AI

Emedgene serves your mission to unlock genomic insights by providing data-driven AI solutions for genomic discovery at scale.

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Abbreviation list

ACMG	American College of Medical Geneticists
AI	Artificial Intelligence
API	Application Programming Interface
CNV	Copy Number Variant
EHR	Electronic Health Record
GDPR	General Data Protection Regulation
HIPAA	Health Insurance Portability and Accountability Act
LIMS	Lab Information Management System
mtDNA	Mitochondrial DNA
NLP	Natural Language Processing
SNV	Single Nucleotide Variant
SOC	Service Organization Control
SOP	Standard Operating Procedure
STR	Short Tandem Repeat
SV	Structural Variant
TAT	Turnaround Time
WES	Whole-Exome Sequencing
WGS	Whole-Genome Sequencing
XAI	Explainable Artificial Intelligence