



INVITAE

COMPREHENSIVE GENETIC PANEL TESTING IN:

HEREDITARY CANCER

CARDIOLOGY

NEUROLOGY

PEDIATRIC GENETICS

METABOLIC DISORDERS

IMMUNOLOGY

HEMATOLOGY

DERMATOLOGY

OPHTHALMOLOGY

Genetic testing, simplified

The answers you need, easily and affordably

Invitae's mission is to make high quality genetic testing affordable and accessible to everyone

FAST, CUSTOMIZABLE PANEL TESTING



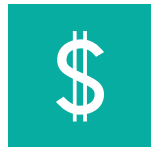
- **Broad test menu** including both curated panels and the option to design your own panel
- **The option to add additional genes** within 90 days at no additional charge
- **Quick turnaround**, with results available within 10–21 calendar days (14 days on average)

PROVEN QUALITY



- **>1000 patient peer-reviewed study¹** showing 100% analytic sensitivity and specificity
- **Clinical evidence studies^{2,3}** conducted in collaboration with world-renowned medical centers
- **Full-gene sequencing and deletion/duplication analysis** with every test using blood or saliva
- **Customized laboratory automation and bioinformatics methods** improve accuracy over off-the-shelf next-generation sequencing (NGS)

SIMPLE PRICING. SIMPLE BILLING. NO SURPRISES.



- **Clear affordable pricing***, including patient-pay option and assistance programs
- **Targeted follow-up** for family members at no additional charge within 90 days
- **No explanation of benefits >\$1500 for panel testing**

TOOLS AND SUPPORT TO EMPOWER YOUR CLINIC



- **Clinical Consult Services** help identify the right test and clarify results
- **Genetic counseling resources** for hereditary cancer testing to help patients understand the process and their results
- **Genetics Provider Network** connects patients and genetics providers within the US and Canada

Join us in our mission to improve healthcare for everyone. Take the first step by viewing our full test catalog at www.invitae.com.

*Panel testing pricing, per clinical area: List price of \$1500, with discount for institutions, distributors, and payers who contract with Invitae under certain terms. Upfront patient pay price is \$475 for orders placed online. Pricing outside the US does not include shipping fees.

¹Lincoln, SE, et al., *J Mol Diagn.* 2015;17:533-44

²Desmond, A, et al., *JAMA Oncol.* 2015;1:943-51

³Kurian, AW, et al., *J Clin Oncol.* 2014;32:2001-9

Confidence begins with quality

Invitae has a strong team of experts in genetics, bioinformatics, engineering, technology, and commercial development. We have the best and brightest minds working together toward one goal: bringing genetic information into mainstream medicine.

Every Invitae report is reviewed by our team of Ph.D. scientists, medical geneticist lab directors, and genetic counselors.



ROBERT NUSSBAUM, M.D.
CHIEF MEDICAL OFFICER
Harvard Medical School M.D.

Dr. Nussbaum is a world-renowned pioneer in genetics and co-discovered the first inherited form of Parkinson's disease.

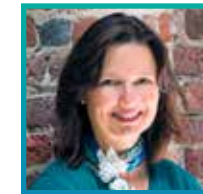
Before Invitae, he served as chief of the genomic medicine division in the UCSF Department of Medicine and chief of the Genetic Disease Research Branch at the NHGRI of the NIH. He is a past president of the ASHG.



SWAROOP ARADHYA, PH.D., FACMG
DIRECTOR OF MEDICAL AFFAIRS
Baylor College of Medicine Ph.D.

Dr. Aradhya is a molecular geneticist and cytogeneticist who has helped shape professional practices and technology

applications in clinical genetic testing. Before Invitae, he was director of neurogenetics and clinical microarray services at GeneDx. Earlier, he also co-discovered the gene for incontinentia pigmenti and participated in the Human Genome Project.



TINA HAMBUCH, PH.D., FACMG
PEDIATRICS LABORATORY DIRECTOR
UC Berkeley Ph.D.

Dr. Hambuch is board-certified in clinical molecular genetics, with a focus on pediatric testing services. Prior to Invitae, she was

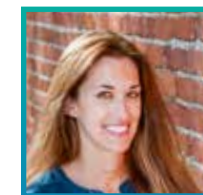
instrumental in launching the first CLIA-certified, and CAP-accredited laboratory offering genome sequencing at Illumina and was a postdoctoral fellow at the CDC, an assistant professor at the University of Munich, and a scientist at Ambry Genetics.



EDEN HAVERFIELD, PH.D., FACMG
ADULT GENETICS LABORATORY DIRECTOR
University of Oxford DPhil (Ph.D.)

Dr. Haverfield is a clinical molecular geneticist with broad expertise in diagnostic next-generation sequencing and

pharmacogenomics. Before joining Invitae, Dr. Haverfield held the positions of director of whole exome sequencing at GeneDx and assistant director of the genetics services laboratory at University of Chicago.



BRITT JOHNSON, PH.D., FACMG
METABOLIC & NEWBORN SCREENING
LABORATORY DIRECTOR
University of Wisconsin–Madison Ph.D.

Dr. Johnson is board-certified in clinical molecular genetics, clinical biochemical

genetics, and clinical chemistry. Prior to Invitae, she was assistant lab director of the Clinical Biochemical Genetic Diagnostic Laboratory at the University of Miami, where she was instrumental in establishing high-throughput testing for lysosomal storage disorders.



KAREN OUYANG, PH.D., FACMG
ONCOLOGY LABORATORY DIRECTOR
University of Chicago Ph.D.

Dr. Ouyang is a clinical molecular geneticist and cytogeneticist. Before Invitae, she was assistant director of the cytogenetics

laboratory and assistant professor of clinical medical and molecular genetics at Indiana University. There, she led the development and launch of high resolution SNP chromosomal microarray analysis for clinical testing.



MATTEO VATTA, PH.D., FACMG
CARDIOLOGY LABORATORY DIRECTOR
Scuola Internazionale Superiore di Studi
Avanzati Ph.D.

Dr. Vatta is a cardiovascular clinical molecular geneticist with more than

20 years of experience. Before joining Invitae, Dr. Vatta was director of the cardiovascular genetics section at the Indiana University Molecular Genetics Diagnostic Laboratory, where he led the development and launch of clinical next-generation sequencing analysis.



TOM WINDER, PH.D., FACMG
NEUROLOGY LABORATORY DIRECTOR
Iowa State University Ph.D.

Dr. Winder, a specialist in the genetic diagnosis of neuromuscular disorders, spent 15 years leading the development of

affordable tests for inherited muscle and nerve disorders. Prior to Invitae, he also served as an assistant professor in the University of Iowa's pathology department and co-director of the university's molecular pathology laboratory.

Today, Invitae is reinventing genetic testing by lowering the barriers for clinicians and patients to obtain diagnostic genetic information. Together we can improve healthcare for billions of people.

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For decades, we have been advancing our understanding of the human genome. We are now at that exciting point of time that many of us have worked towards all these years, when the field is starting to have a real impact both on medical care and on the health of individuals and the public.

ROBERT NUSSBAUM, M.D.
CHIEF MEDICAL OFFICER, INVITAE

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The impact of genetic disease on my own family has shaped my belief that genetics impacts all of us and should be accessible to everyone. I hope that you will join us in our mission to improve healthcare for everyone.

RANDY SCOTT
EXECUTIVE CHAIRMAN, INVITAE

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