

City of Hope

Molecular Diagnostic Laboratory

The Frontier of Personalized Medicine



The City of Hope Molecular Diagnostic Laboratory (CMDL) provides comprehensive and, in many cases, unique genetic testing services.

We are an innovative, high-quality, molecular genetic testing laboratory. Genetic test results can prove invaluable to physicians and patients faced with choosing the best course for disease treatment and management.

Excellent Customer Service

- Accessible and responsive to your needs; customer service is our priority
- Experienced team of senior molecular geneticists and genetic counselors
- Offering insurance billing and large discounts for institutional billing
- CLIA and CAP Certified Academic Laboratory



What Our Customers Say About Us ...

“Excellent service — professional, friendly and helpful staff.”

Malone Maura,
Dartmouth Hitchcock Medical Center, N.H.

“Insurance billing is extremely helpful. It is a pleasure working with City of Hope.”

Michelle Cregan,
UC Davis Medical Center, Calif.

“Report is clearly written, easy to interpret, and I will use it again.”

Sally S Rosengen M.D.,
University of Connecticut Health Center, Conn.

CMDL at a Glance

- Expert genotype to phenotype analysis
- First in the United States to develop 18 gene tests; first in the world for many of these
- National and international reference lab
- Multiple peer-reviewed publications related to the genetic tests offered by CMDL

Our Core Competencies:

- Cancer Predisposition
- Coagulopathies
- Muscular Dystrophies/Cardiomyopathies
- Neuropsychiatric Disorders
- Connective Tissue Disorders
- Pharmacogenetics

Genetic Testing Available for the Following Syndromes:

Cancer Predisposition

- **ATM** (Ataxia Telangiectasia)
- **CHEK2** (Hereditary breast and colon cancer)
- **CDH1** (Hereditary diffuse gastric cancer)
- **Immunohistochemistry (IHC)**
(Hereditary Nonpolyposis Colorectal Cancer)
- **Microsatellite instability (MSI)**
(Hereditary Nonpolyposis Colorectal Cancer)
- **MLH1** (Hereditary Nonpolyposis Colorectal Cancer)
- **MSH2** (Hereditary Nonpolyposis Colorectal Cancer)
- **MSH6** (Hereditary Nonpolyposis Colorectal Cancer)
- **p53** (Li-Fraumeni Syndrome)

Coagulopathies

- **Factor V Leiden** (Venous Thromboembolism)
- **Factor VIII** (Hemophilia A)
- **Factor IX** (Hemophilia B)
- **VWD** (von Willebrand Disease)

Muscular Dystrophies/Cardiomyopathies

- **Dystrophin** (Duchenne and Becker Muscular Dystrophy, Dilated Cardiomyopathy)
- **EMD** (Emery-Dreifuss Muscular Dystrophy)
- **Lamin A/C** (Charcot-Marie-Tooth Disorder Type 2, Dilated Cardiomyopathy, Emery-Dreifuss Muscular Dystrophy, Familial Partial Lipodystrophy, Limb-Girdle Muscular Dystrophy type IB, Progeria)

Neuropsychiatric Diseases

- **ARX** (Partington Syndrome Proud Syndrome, X-linked lissencephaly with abnormal genitalia (XLAG) Syndrome, Nonsyndromic XLMR)
- **ATRX** (Alpha-thalassemia myelodysplasia syndrome, X-linked alpha-thalassemia/mental retardation syndrome, Juberg-Marsidi syndrome, West Syndrome (Infantile spasms), Smith-Fineman-Myers syndrome, Carpenter-Waziri syndrome)
- **NLGN3** (Autism, Asperger Syndrome, Pervasive Developmental Disorder)
- **NLGN4** (Autism, Asperger Syndrome, Pervasive Developmental Disorder)
- **STK9/ CDKL5** (Autism Rett Syndrome, West Syndrome (Infantile spasms))
- **PQBP1** (Cerebropalatocardiac (Hamel) Syndrome, Sutherland-Haan Syndrome, Renpenning Syndrome, nonsyndromic XLMR)

- **MECP2** (Rett Syndrome, Infantile Encephalitis in males, Pervasive Developmental Disorder)
- **XLMR Panel of 8 genes: ARX, DLG3, FACL4, FTSJ1, JARID1C, PQBP1, TM4SF2, ZNF41** (Nonsyndromic X-Linked Mental Retardation)

Pharmacogenetics/Personalized Medicine

- **EGFR** (Non-small cell lung cancer (NSCLC), responsiveness to Iressa[®] (gefitinib) and Tarceva[®] (erlotinib))
- **KRAS** (colorectal cancer (CRC) and (NSCLC))

Connective Tissue Disorders

- **FBN1** (Marfan Syndrome, Aortic Aneurysm, Loeys-Deitz, Familial Ectopia Lentis)
- **TGFBR2** (Marfan Syndrome, Loeys-Deitz)
- **TGFBR1** (Loeys-Deitz)
- **Lamin A/C** (Charcot-Marie-Tooth Disorder Type 2, Dilated Cardiomyopathy, Emery-Dreifuss Muscular Dystrophy, Familial Partial Lipodystrophy, Limb-Girdle Muscular Dystrophy type IB, Progeria)
- **EMD** (Emery-Dreifuss Muscular Dystrophy)

Additional Tests

- **CFTR** (Cystic Fibrosis, Idiopathic Chronic Pancreatitis, Congenital bilateral absence of the vas deferens, others)

Will medical insurance cover testing?

Testing is often covered by insurance.

Pre-verification for services must be obtained by City of Hope before testing begins.* Patients can always contact their insurance company beforehand to determine coverage.

Testing is held until verification is completed.

If a patient prefers that testing begin immediately, the patient or institution may offer a guarantee of payment, which would be used only if insurance denies coverage for testing. Additional information regarding the insurance verification process is available at <http://mdl.cityofhope.org> or 888-826-4362, ext. 0.

*All HMO's require the primary physician to obtain pre-authorization for the services to be rendered.



Contact Information for Clinicians

The City of Hope Molecular Diagnostic Laboratory
(MDL)

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Northwest Building, Second Floor, Room 2236

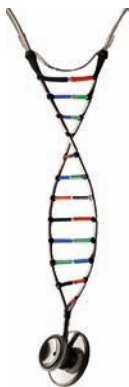
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City of Hope™