

## Background

- Several genetic tests are available through commercially-sponsored programs.
- Those listed here are up-to-date as of April 2023 and will be updated on an ongoing basis. Click on the links to learn more.
- Information in this document was developed as part of an MDA-hosted mini-webinar with a genetic counselor.  
[View the companion mini-webinar here.](#)

## Sponsored Programs (as of April 2023)\*

### Muscular Dystrophy/Myopathy

#### Invitae Detect Muscular Dystrophy Program<sup>1</sup>

##### Test options

- Dystrophinopathies test (DMD only)
- Limb-girdle muscular dystrophy panel
- Comprehensive muscular dystrophy panel
- Comprehensive neuromuscular disorders panel

#### Lantern Project<sup>2</sup>

##### Focused Neuromuscular Disease Panel

- Note: includes PABPN1 analysis for detection of OPMD

#### Decode Duchenne<sup>3</sup>

##### Diagnostic testing for suspected DMD/BMD

- Serum CK analysis
- Genetic testing
- RNA sequencing
  - For patients with no identifiable mutation but abnormal muscle biopsy
  - Requires muscle

##### Carrier testing

- Offered for all at-risk female family members or males with confirmed dystrophinopathy

BMD, Becker muscular dystrophy; CK, creatine kinase; DMD, Duchenne muscular dystrophy; OPMD, oculopharyngeal muscular dystrophy; PABPN1, polyadenylate-binding protein nuclear 1.

1. INVITAE. <https://www.invitae.com/en/sponsored-testing/detect-mdys>. 2. PerkinElmer Genomics. <https://www.perkinelmergenomics.com/lanternproject/> 3. Parent Project Muscular Dystrophy. <https://www.parentprojectmd.org/about-duchenne/decode-duchenne/carrier-testing/>

**\*Each program has specific eligibility criteria.  
Be sure to check program criteria for patient eligibility before ordering**

## Sponsored Programs (as of April 2023)\*

### Neuropathy

#### **Invitae Alnylam Act hATTR Amyloidosis**<sup>1</sup>

Only available to patients aged ≥18 years

Test options

- Cardiomyopathy comprehensive panel
- Comprehensive neuropathies panel
- ATTR amyloidosis test

#### **Ambry hATTR Compass Genetic Testing**<sup>2</sup>

Test options

- ATTR amyloidosis test
- CardioNext panel
- NeuropathySelect panel

### Spinal Muscular Atrophy

#### **Invitae SMA Identified**<sup>3</sup>

### ALS

#### **Invitae ALS Identified**<sup>4</sup>

Includes C9orf72 and ALS panel

#### **PreventionGenetics ALS Testing Program**<sup>5</sup>

Includes analysis of ATXN2 as well as C9orf72 and ALS panel

ALS, amyotrophic lateral sclerosis; ATTR amyloidosis, transthyretin-mediated amyloidosis; hATTR, hereditary ATTR; SMA, spinal muscular atrophy.

1. INVITAE. <https://www.invitae.com/en/alnylam-act-hattr-amyloidosis>. 2. Ambry Genetics. <https://www.ambrygen.com/partners/hattr-compass/healthcare-provider>. 3. INVITAE.. <https://www.invitae.com/en/sponsored-testing/sma-identified>. 4. INVITAE.. <https://www.invitae.com/en/sponsored-testing/als-identified>. 5. Prevention Genetics.. [https://www.preventiongenetics.com/sponsoredTesting/lonis\\_ALS](https://www.preventiongenetics.com/sponsoredTesting/lonis_ALS).

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## Sponsored Programs (as of April 2023)\*

### Mitochondrial Disease

#### **UMDF Genetic Testing for Suspected Mitochondrial Disease Program**<sup>1</sup>

Nuclear mitochondrial panel + mtDNA analysis

Patient must have no insurance or insurance that will not cover costs for testing

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#### **PreventionGenetics No-Cost Genetic Testing Program for TK2 Deficiency**<sup>2</sup>

### Lysosomal Storage Diseases

#### **Lantern Project**<sup>3</sup>

Test options

- Fabry disease
- Pompe disease
- Gaucher disease
- Niemann-Pick types A and B
- Mucopolysaccharidosis I (MPSI) and other MPS disorders

### Periodic Paralysis

#### **Invitae Uncovering Periodic Paralysis**<sup>4</sup>

MPS, mucopolysaccharidosis; mtDNA, mitochondrial DNA; TK2, thymidine kinase 2; UMDF, United Mitochondrial Disease Foundation.

1. United Mitochondrial Disease Foundation (UMDF). <https://www.umdf.org/genetic-testing-clinicians>. 2. Prevention Genetics.

<https://www.preventiongenetics.com/sponsoredTesting/Zogenix>. 3. PerkinElmer Genetics. <https://www.perkinelmergenomics.com/lanternproject/>.

4. INVITAE. <https://www.invitae.com/en/uncoveringperiodicparalysis/>.

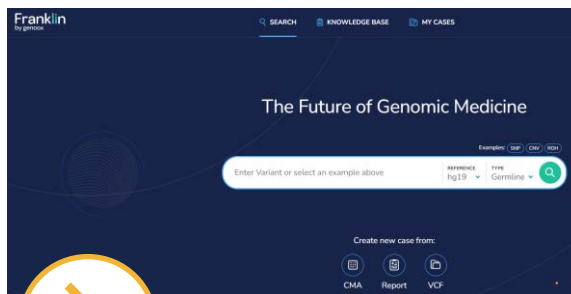
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## Additional Resources on Genetic Testing



Find a genetic counselor in your area

- [National Society of Genetic Counselors](#)



Access the [Franklin variant assessment tool](#)

- Open professional genomic community
- Search engine helps obtain insights from real-world data