CENTOGENE
GUIDING PRECISION MEDICINE

New | Pediatric Panels

Guiding Precision Medicine in Pediatrics

NEW Panel Portfolio **CentoPediatric**

Comprehensive Genetic Testing for Early and Childhood-Onset Disorders

CENTOGENE's pediatric portfolio is designed to support the diagnosis of early and childhood-onset disorders through comprehensive genetic testing across 14 disease areas. Combining pediatric-focused curation, advanced genomic technologies, and deep scientific expertise, the portfolio supports earlier and more informed diagnoses across a broad spectrum of pediatric conditions.

With dedicated disease-focused sub-panels and genome-based analysis available for complex variant detection, the portfolio is designed to address the clinical and genetic complexity of pediatric disorders while supporting confident variant interpretation and informed clinical decision-making.

Backed by Scientific and Diagnostic Expertise[1]

More than 12 recent scientific publications related to early-onset disorders, supported by an ethnically diverse CENTOGENE Biodatabank with over 1 million patient cases and extensive expertise in gene-disease association curation. Including **more than 43 diagnostic genes** curated through CENTOGENE's gene-disease relationship experts.

Benefit From Our Expertise in **Pediatrics**

Pediatric-Focused Portfolio
Curated for early and childhood-onset conditions across 14 disease areas

Comprehensive Testing Approach
Dedicated sub-panels with genome-based analysis for complex variants

Integrated Diagnostic Solutions
Complementary auxiliary assays when clinically relevant

Advanced Variant Detection
Detection of repeat expansions, CNVs and non-coding variants

Advanced Genomic Insights[2]
Newly reported clinically relevant non-coding genes (e.g. *RNU4-2*) included in genome-based panels

1 Zonic et al.
2 Bertoli-Avella et al., 2025

Discover Our **New Pediatric Portfolio**

CentoPediatric Neuro
Comprehensive
2,398 genes

- **Ataxia and cerebellar anomalies** | 193 genes
- **Dystonia, chorea and related movement disorders** | 205 genes
- **Epilepsy** | 1,059 genes
- **Leukodystrophy/ leukoencephalopathy** | 163 genes
- **NDD and ASD** | 2,016 genes
- **Neuromuscular** | 347 genes
- **Spastic paraplegia** | 136 genes
- **Structural CNS abnormalities** | 18 genes

CentoPediatric Dysmorph
Comprehensive
858 genes

- **Arthrogryposis** | 186 genes
- **Ciliopathies** | 131 genes
- **Connective tissue disorders** | 87 genes
- **Lipodystrophies** | 34 genes
- **Overgrowth** | 41 genes
- **RASopathy** | 29 genes
- **VACTERL and VACTERL-like** | 30 genes

CentoPediatric Hem/Imm
Comprehensive
578 genes

- **Blood coagulation** | 107 genes
- **Bone marrow failure** | 156 genes
- **Congenital neutropenia** | 41 genes
- **Cytopenias and congenital anemias** | 145 genes
- **Fanconi anemia** | 27 genes
- **Hemolytic anemia** | 48 genes
- **Immunology** | 472 genes
- **Primary immunodeficiency and ciliary dyskinesia** | 366 genes

CentoPediatric Cardio
Comprehensive
412 genes

- **Abnormalities of cardiac rhythm** | 43 genes
- **Cardiomyopathies** | 104 genes
- **Structural heart disease** | 121 genes
- **Vascular disorders** | 207 genes

CentoPediatric Metabol
Comprehensive
797 genes

- **Diabetes** | 41 genes
- **Hyperinsulinemia, hypoglycemia** | 69 genes
- **IEM** | 766 genes

CentoPediatric GI
Comprehensive
190 genes

- **Cholestasis** | 79 genes
- **Congenital diarrhea, infantile enterocolitis** | 69 genes
- **Gastrointestinal atresias, anorectal malformations** | 33 genes

CentoPediatric Derma
Comprehensive
295 genes

- **Ectodermal dysplasia** | 77 genes
- **Epidermolysis bullosa** | 45 genes
- **Ichthyosis** | 78 genes
- **Oculocutaneous albinism/ hypopigmentation** | 36 genes
- **Pigmentary skin disorders** | 140 genes
- **Xeroderma pigmentosum** | 15 genes

CentoPediatric Bone
Comprehensive
608 genes

- **Abnormal mineralization** | 89 genes
- **Craniosynostosis** | 102 genes
- **Non-syndromic short stature** | 16 genes
- **Osteogenesis imperfecta** | 54 genes
- **Short-rib/Asphyxiating thoracic dysplasia** | 31 genes
- **Skeletal dysplasias** | 558 genes

CentoPediatric Eye
Comprehensive
633 genes

- **Cataracts** | 209 genes
- **Leber congenital amaurosis** | 31 genes
- **Microphthalmia, anophthalmia and anterior dysgenesis** | 119 genes
- **Retinal dystrophy** | 377 genes

CentoPediatric Ear
Comprehensive
311 genes

CentoCancerHereditary Pediatric
136 genes

CentoPediatric Nephro
Comprehensive
502 genes

- **aHUS** | 10 genes
- **Kidney malformations** | 23 genes
- **Polycystic kidney** | 39 genes

CentoPediatric DSD
Comprehensive
149 genes

- **CAH** | 11 genes

CentoPediatric Mito
Comprehensive
447 genes

***Genome Backbone** available

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centogene.com

For Ordering
centoportal.com

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