



Molecular Diagnostics &
Genetic Testing

A large, stylized graphic of a woman and a child smiling, overlaid with a DNA sequence pattern. The graphic is divided into three diagonal sections: a green section on the left showing a woman and a child, a blue section in the middle showing a hand holding a DNA chip, and a light blue section on the right showing a DNA sequence pattern. The text "Insights into Health & Disease" is written in white on an orange background at the bottom of the graphic.

Insights into Health & Disease

Our Vision



To be an ethical and actionable precision diagnostics company by providing insights into health and disease

Growth Drivers in Genetic Testing



GENOME

- Understanding of human genome better
- Relationship of genetic variants with diseases

TECHNOLOGY

- Advances in genomics technologies makes the test possible
- Decreasing cost

AWARENESS

- Awareness of genetic diseases leading to preventive options
- Expanding reproductive options – Pre-natal screens

AFFORABILITY

- Increasing affluence to spend of healthcare – especially for reproduction
- Increase in insurance penetration

About Dhiti Omics



- **Privately owned company with the promoters and angel investor as key stakeholders established in 2014**
- **Delivers ethical and actionable molecular diagnostics and genetic testing services, currently in following specializations;**
 - **Pediatrics**
 - **Obstetrics and Gynecology**
 - **Nephrology**
 - **Neurology**
 - **Cardiology**
 - **Oncology**
 - **Metabolic disorders**
 - **Dysmorphologies**
- **Associate company of Genotypic Technology which pioneered genomics services in India in 1998**
- **Currently Servicing Clinicians and Geneticists of key hospitals in India**
- **Strong R and D and Capability to develop and launch tests in the quickest and most cost-effective manner-Launched 6 new genomic tests in a span of 3 months on a shoestring budget!**

Road Map



2014

Established laboratory in Bangalore
Developed relationships with key genetics clinics

2017

Expansion of team
Business expanded to global market

2022

Launched Oncogenomics, and Infectious panels.
Expansion of sales team



2016

Launched tests for Nephrology, cancer, metabolic disorders, neuromuscular disorders, Thalassemia, Single gene disorders

2021

Launched COVID-19 Diagnostic Lab
NABL accreditation
ICMR approval

Management Team



Sudha Rao, PhD

Founder & Director

- Two decades of experience in biotech as researcher and entrepreneur
- Co founder of Genotypic Technology - pioneered genomics services in India

Kannan Ramesh

Co-Founder & Director

- Over 25 years of consulting experience in Management, Business, Finance and Strategy in Healthcare sector
- Helped several respected brands in healthcare to scale up across verticals

Meena Vaidyanathan, MBA

Director

- 25 years experience in business strategy and marketing
- Founder, Niiti consulting

Dr. Anand Damodaran

M.B.B.S, M. D (Path)
PDF in Immunogenetics (USA)
Consultant in Molecular Pathology &
Molecular Diagnostics

Chief Mentor: Prof. Samir K. Brahmachari

An eminent geneticist and former DG, CSIR. Also, Founder Director of Institute of Genomics and Integrative Biology [IGIB] and Professor at IISc, Bangalore. Was instrumental in the development of tests for Indian specific mutations in Thalassemia in the 90s and piloted the Indian genome variant project and coordinated the Pan India genome project

Genomics Facility



- **2300 sq. ft facility in Bangalore with fully functional wet lab**
- **Next Gen Sequencing at the ISO 9001 certified Genomics Lab @ Genotypic Technology**

Certifications



**NABL Accredited &
ICMR Approved for
testing & reporting of
SARS-CoV-2**



**Pre-Conception and
Pre-Natal Diagnostic
Techniques**



**Karnataka State
Pollution Control Board**



**Karnataka Private
Medical Establishments**

Key Achievements



- **Privately owned company with the promoters and angel investor as key stakeholders established in 2014**
- **Collaborative Grant in collaboration with NIMHANS for Neuro-Muscular test development**
- **Relationships with several key clinics**
- **Whole genome sequencing of local subjects towards development of Indian Genomic Database**
- **Diagnosed over 1500 cases of rare disorders**
- **Over 20 Specialized Validated inhouse developed tests for rare diseases**
- **Over 200 clients including KOLS and hospitals in India with a minor presence in the Middle east**

Test Code	Test Name
DN01	Whole Genome Sequencing [WGS]



- ✓ **Comprehensive Screening for Rare Genetic Disorders. Mainly for prognostic, diagnostic, preventive & therapy modulation of diseases.**

Sample	4mL whole blood in EDTA tube / gDNA
Technology	Next-Generation Sequencing [NGS]
TAT	4 weeks

Screens for

- WGS checks for SNVs, indels, CNVs, and SVs across the whole genome. It may be used for diagnosis, screening, treatment selection in prenatal, paediatric, critical care, rare disease, or adult medicine.

Test Code	Test Name
DN02	Whole Exome Sequencing [WES]



✓ **Mainly for prognostic, diagnostic, preventive & therapy modulation of diseases.**

Sample	4mL whole blood in EDTA tube / gDNA
Technology	Next-Generation Sequencing [NGS]
TAT	4 weeks

Screens for

- WES sequences the human protein coding regions.

Test Code	Test Name
DN42	Hirschsprung Disease Panel



- ✓ **This test is used for the diagnosis of Hirschsprung disease or aganglionic megacolon**

Sample	4mL whole blood in EDTA tube / gDNA
Technology	Next-Generation Sequencing [NGS]
TAT	4 weeks
Gene List	<i>BDNF, CELSR3, EDN3, EDNRB, KIF1BP, L1CAM, MITF, NRG1, NRTN, PAX3, PHOX2B, RET, RMRP, SOX10, ZEB2</i>

Test Code	Test Name
DN05	Mitochondrial Disorder Panel



✓ Targets the full mitochondrial genome, without amplifying any nuclear encoded genes.

Sample	4mL whole blood in EDTA tube / gDNA
Technology	PCR+NGS
TAT	4 weeks

Screens for

- Chronic progressive external ophthalmoplegia [CPEO]
- Kearns-Sayre syndrome [KSS]
- Leber hereditary optic neuropathy [LHON]
- Mitochondrial encephalomyopathy with lactic acidosis and stroke-like episodes [MELAS]
- Myoclonic epilepsy myopathy sensory ataxia [MEMSA]
- Myoclonic epilepsy with ragged-red fibers [MERRF]
- Mitochondrial recessive ataxia syndrome [MIRAS]
- Neurogenic weakness with ataxia and retinitis pigmentosa [NARP]
- Sensory ataxia neuropathy, dysarthria, ophthalmoplegia [SAND]
- Spinocerebellar ataxia with epilepsy [SCAE]

Test Code	Test Name
DN07	Metabolic Disorder Panel



- ✓ Accurate diagnosis of Metabolism Errors and other Paediatric-Onset Genetic Disorders.
- ✓ Sequencing coding regions of 300+ genes linked to 120+ such disorders

Sample	4mL whole blood in EDTA tube / gDNA
Technology	Next-Generation Sequencing [NGS]
TAT	4 weeks

Screens for

- Lipid Metabolism Disorders
- Acidurias
- Amino Acid Metabolic Disorders
- Carbohydrate Metabolic Disorders
- Fatty Acid Oxidation Disorders
- Metal Metabolism Disorders
- Enzyme Deficiency
- Mitochondrial Deficiency
- Organic Acid Disorders
- Urea Cycle Defects
- Peroxisomal Disorders
- Other Metabolic Disorders

Test Code	Test Name
DN15	Endocrine Disorder Panel



- ✓ Several endocrine disorders have a strong genetic component. Genetic tests can guide treatment in patients, and pave way for carrier screening in families.

Sample	4mL whole blood in EDTA tube / gDNA
Technology	Next-Generation Sequencing [NGS]
TAT	4 weeks

Screens for

- Abnormal Genitalia/ Disorders of Sex Development
- Congenital Adrenal Hyperplasia
- Glucocorticoid Deficiency
- Hyperlipidemia
- Hyperparathyroidism
- Hypoglycemia and Hyperinsulinism
- Hypomagnesemia
- Hypothyroidism and Resistance to Thyroid Hormone
- Kallmann Syndrome/ Hypogonadotropic hypogonadism
- Premature Ovarian Failure
- Combined pituitary hormone deficiency

Test Code	Test Name
DN03	Cardiac Disorder Panel



Sample	4mL whole blood in EDTA tube / gDNA
Technology	Next-Generation Sequencing [NGS]
TAT	4 weeks

Who should be tested?

1. Individuals presenting with the most common symptoms of cardiovascular disease
2. Individuals with a positive family history of cardiovascular disease or sudden (unexplained) death
3. Individuals without a positive family history but with symptoms resembling the specific disease indication

Screens for

- Cardiac Channelopathies
- Cardiomyopathies
- Congenital heart diseases

Test Code	Test Name
DN04	Neurological Disorder Panel



✓ **Targeted analysis for 1200 genes associated with neurological disorders.**

Sample	4mL whole blood in EDTA tube / gDNA
Technology	Next-Generation Sequencing [NGS]
TAT	4 weeks

Screens for

- Neurocognitive/ Intellectual disorders (e.g. Autism, ASD, ADD/ADHD)
- Neuromuscular disorders (e.g. DMD, BMD, LGMD)
- Epileptic disorders
- Mitochondrial disorders*

Who should be tested?

1. Individuals presenting with the most common symptoms of a neurological disease
2. Individuals with a positive family history of neurological disease
3. Individuals without a positive family history but with symptoms resembling the specific disease indication
4. Individuals with a negative, but suspected, family history, in order to perform genetic counselling (prenatal analyses are recommended in families of affected individuals)

Test Code	Test Name
DN09	Neuromuscular Disorder Panel



- ✓ **Confirms diagnosis of patients with muscular dystrophies, carrier testing of family members or for prenatal testing in offspring**

Sample	4mL whole blood in EDTA tube / gDNA
Technology	Next-Generation Sequencing [NGS]
TAT	4 weeks
Gene List	<i>SGCA, DYSF, CAPN3, FKRP, DMD, SGCB, SGCD, SGCG, DYSF, CAPN3, FKRP</i>

Screens for

- Duchenne Muscular Dystrophy – DMD
- Becker Muscular Dystrophy – BMD
- Limb Girdle Muscular Dystrophy – LGMD [Type 2A, 2B, 2C, 2D, 2E, 2F, & 5C]

Test Code	Test Name
DN17	CGH-Microarray



- ✓ Copy number changes including deletions and amplifications in developmental delays, mental retardation, and related conditions

Sample	3mL whole blood in EDTA / Saliva / buccal swab
Technology	Microarray
TAT	4 weeks

Test Code	Test Name
DN06	Inherited Common Nephrological Disorders



✓ **Screens the coding regions of 57 genes associated with inherited renal diseases**

Sample	4mL whole blood in EDTA tube / gDNA
Technology	Next-Generation Sequencing [NGS]
TAT	4 weeks

Screens for

- Accurate diagnosis - helps you decide next course of treatment
- Prognosis - informed decision on transplant
- Assessment of recurrence chance
- Carrier status of family members
- Focussed test with an affordable price

Test Code	Test Name
DN12	Pre-natal Testing



Sample	4mL whole blood in EDTA tube / 10mL Amniotic Fluid / CVS
Technology	Next-Generation Sequencing [NGS]
TAT	4 weeks

First trimester

- Increased NT
- Spina bifida Holoprosencephaly
- Encephalocele Microcephaly
- Facial clefting
- Agenesis of corpus callosum Renal agenesis
- Skeletal
- Limb reduction defects Absent nasal bone
- Anencephaly
- Acrania
- Micrognathia Omphalocele Gastroschisis
- Megacystis Hydrocephalus

Second trimester

- Tetralogy of Fallot
- Atrioventricular canal
- Right heart defects
- Great arteries defects
- Hydronephrosis
- Osteochondrodysplasias
- Arthrogryposis
- Hydrops
- Syndactyly
- Talipes
- Hydronephrosis

Test Code	Test Name
DN13	Mutation Testing for Pre – Natal validation (Includes MCC)



- ✓ VNTR/ STR analysis by PCR to rule out maternal cell contamination (MCC) in a prenatal sample under analysis.

Sample	4mL whole blood in EDTA tube (mother) and 10mL Amniotic Fluid/CVS
Technology	Sanger sequencing
TAT	2 weeks

Test Code	Test Name
DN14	Cystic Fibrosis Hotspot Testing

- ✓ Detects F508del mutation found in >80% of CF Patients. This is clinically actionable, with treatments such as lumacaftor/tezacaftor that help the defective CFTR fold correctly.

Sample	4mL whole blood in EDTA tube
Technology	Sanger sequencing
TAT	2 weeks

Test Code	Test Name
DN11	Inherited Cancer Panel



- ✓ Screens for a whole gamut of inherited cancers, such as Lynch Syndrome, Breast and Ovarian Cancers etc.

Sample	4mL whole blood in EDTA tube / gDNA
Technology	Next-Generation Sequencing [NGS]
TAT	4 weeks

Screens for

- Lynch Syndrome
- Breast Cancer
- Ovarian Cancer
- Colorectal Cancer
- Uterine Cancer
- Gastric Cancer
- Skin Cancer
- Familial Adenomatous Polyposis

How will genetic testing help?

- Helps the clinician to make a precise diagnosis
- Helps the clinician to decide the most suitable therapy and support for the patient.
- Early intervention and good surveillance can help the patient in leading a good life
- Results of genetic testing can be useful for future family planning

Type	Hematological Cancer
Sample	4mL whole blood / 2 ml bone marrow in EDTA tube
Technology	RT-PCR
TAT	4 Days



Test Code	Test Name	Gene List
DN27	AML Comprehensive PCR Panel	<i>BCR-ABL1, PML-RaRa, AML-ETO, Inv16, FLT3 (ITD/TKD), NPM1, c-KIT</i>
DN28	ALL Comprehensive PCR Panel	<i>BCR-ABL1, TEL-AML1, MLL-AF4, MLL-AF9, MLL-ENL, E2A-PBX1</i>
DN29	BCR-ABL Qualitative [Major, Minor & Micro]	<i>BCR-ABL1</i>
DN30	BCR-ABL1 Quantitative [Major, Minor & Micro], WHO International Scale	<i>BCR-ABL1</i>
DN32	JAK 2 Detection [Exons 12-15]	<i>JAK 2</i>
DN33	PML-RARA Qualitative	<i>BCR1, BCR2 & BCR3</i>
DN34	PML-RARA Quantitative	<i>BCR1, BCR2 & BCR3</i>



Test Code	Test Name
DN31	<i>BCR/ABL 1</i> , Kinase Domain Sequencing
Sample	4mL whole blood / 2 ml bone marrow in EDTA tube
Technology	Sanger sequencing
TAT	14 Days

Test Code	Test Name
DN35	KRAS Qualitative
DN36	NRAS Qualitative
DN37	BRAF Qualitative
DN38	EGFR Qualitative

Type	Solid Tumor
Sample	FFPE tissue block/unstained slides
Technology	RT-PCR
TAT	7 Days

Test Code	Test Name
DN22	Solid Tumours Panel_Somatic



Sample	FFPE tissue blocks/unstained slides
Technology	Next-Generation Sequencing [NGS]
TAT	4 weeks

Genes Covered

ALK, APC, ATM, BRAF, CDH1, CDKN2A, CTNNB1, DDR2, EGFR, ERBB2, ERBB4, EZH2, FBAKT1XW7, FGFR1, FGFR2, FGFR3, GNA11, GNAQ, GNAS, HRAS, IDH1, IDH2, KDR, KIT, KRAS, MAP2K1, MET, MTOR, NOTCH1, NRAS, NTRK1, PDGFRA, PIK3CA, PTEN, RB1, RET, ROS1, SMAD4, SMO, STK11, TERT promoter, TP53, VHL

Resections:	Transport 8 unstained 5-micron slides. (Min: 5 slides)
Small Biopsies:	Transport 15 unstained 5-micron slides. (Min: 10 slides)
Transport Temperature:	Room temperature.
Unacceptable Conditions:	<10 percent tumor, Decalcified specimens, FNA smears with less than 50 tumor cells.
Additional Requirement:	Include surgical pathology report.

Test Code	Test Name
DN23	Non-small Cell Lung Carcinoma [NSCLC] Panel_Somatic



Sample	FFPE tissue blocks/unstained slides
Technology	Next-Generation Sequencing [NGS]
TAT	4 weeks

Genes Covered

FDA Approved and NCCN Recommended Therapies Guided by Genetic Markers

Erlotinib, Gefitinib *EGFR, ERBB2, KRAS, MET*
 Afatinib *EGFR, ERBB2, KRAS, MET*
 Osimertinib *EGFR*
 Crizotinib *ALK*
 Ceritinib *ALK*

Alectinib *ALK*
 Bevacizumab *KRAS, VHL*
 Vemurafenib *BRAF*
 Dabrafenib *BRAF*
 Trastuzumab *EGFR, ERBB2, MET, PIK3CA*

Resections:

Transport 8 unstained 5-micron slides. (Min: 5 slides)

Small Biopsies:

Transport 15 unstained 5-micron slides. (Min: 10 slides)

Transport Temperature:

Room temperature.

Unacceptable Conditions:

<10 percent tumor, Decalcified specimens, FNA smears with less than 50 tumor cells.

Additional Requirement:

Include surgical pathology report.

Test Code	Test Name
DN24	Colorectal Carcinoma [CRC] Panel_Somatic



Sample	FFPE tissue blocks/unstained slides
Technology	Next-Generation Sequencing [NGS]
TAT	4 weeks

Genes Covered

FDA Approved and NCCN Recommended Therapies Guided by Genetic Markers

5-Fluorouracil	<i>APC, SMAD4</i>
Cetuximab,	<i>BRAF, EGFR, KRAS, MET, NRAS,</i>
Panitumumab	<i>PIK3CA, PTEN</i>
Oxiplatin	<i>KRAS</i>
Bevacizumab	<i>KRAS</i>

Resections:	Transport 8 unstained 5-micron slides. (Min: 5 slides)
Small Biopsies:	Transport 15 unstained 5-micron slides. (Min: 10 slides)
Transport Temperature:	Room temperature.
Unacceptable Conditions:	<10 percent tumor, Decalcified specimens, FNA smears with less than 50 tumor cells.
Additional Requirement:	Include surgical pathology report.

Test Code	Test Name
DN25	Myeloid Tumours Panel_Somatic



Sample	3mL whole blood or bone marrow in EDTA tube
Technology	Next-Generation Sequencing [NGS]
TAT	4 weeks

Genes Covered

ANKRD26, ASXL1, ATM, CBL, CDKN2A, CEBPA, CREBBP, DNMT3A, ETV6, EZH2, FLT3, GATA2, HRAS, IDH1, IDH2, JAK2, KIT, KRAS, NF1, NOTCH1, NPM1, NRAS, PDGFRB, PHF6, PTPN11, RAD21, RUNX1, SF3B1, SMC1A, SMC3, SRSF2, STAG2, TET2, TP53, U2AF1, WT1

If smaller panel needed: *ANKRD26, ASXL1, CEBPA, DDX41, DNMT3A, ETV6, FLT3, GATA2, IDH1, IDH2, KIT, KRAS, NPM1, NRAS, PDGFRA, RUNX1, TP53, WT1*

Transport Temperature:
Unacceptable Conditions:

Room temperature. Ship over cool packs during summer/hot weather.
Serum, plasma, grossly hemolyzed specimens, buccal brush or swab, FFPE tissue.

Test Code	Test Name
DN26	Lymphocytic Tumours Panel_Somatic



Sample	3mL whole blood or bone marrow in EDTA tube
Technology	Next-Generation Sequencing [NGS]
TAT	4 weeks

Genes Covered

ABL1, ASXL1, ATM, ATRX, BCOR, BCORL1, BRAF, CALR, CBL, CBLB, CBLC, CDKN2A, CEBPA, CREBBP, CSF3R, CUX1, DNMT3A, ETV6, EZH2, FBXW7, FLT3, GATA1, GATA2, GNAS, HRAS, IDH1, IDH2, IKZF1, JAK2, JAK3, KDM6A, KIT, KMT2A, MGM173, MGM175, KMT2D, KRAS, MPL, MYD88, MGM1060, NOTCH1, NPM1, NRAS, PDGFRA, PHF6, PTEN, PTPN11, RAD21, RUNX1, SETBP1, SF3B1, SMC1A, SMC3, SRSF2, STAG2, TET2, TP53, U2AF1, WT1, ZRSR2

Transport Temperature:

Room temperature. Ship over cool packs during summer/hot weather.

Unacceptable Conditions:

Serum, plasma, grossly homolysed specimens, buccal brush or swab, FFPE tissue.



Test Code	Test Name
DN39	SARS-CoV-2 RT-PCR Test
DN41	SARS-CoV-2 Tapestry Algorithmic Pooling

Sample	Nasopharyngeal & Oropharyngeal Swab
Technology	RT-PCR
TAT	24 hours

Test Code	Test Name
DN40	SARS-CoV-2 Rapid Antigen Test

Sample	Nasopharyngeal/Nasal Swab
Technology	POC
TAT	24 hours

Test Code	Test Name
DN43	Sepsis with AMR Panel [Bacteria, Virus, Fungus]



Sample	Blood/Pus Swab/gDNA
Technology	Nanopore sequencing [Whole Genome Sequencing]
TAT	24 hours

- ✓ We conduct Whole Genome Metagenome Sequencing (WGMS) and Analysis in clinical samples such as blood / biological fluids (Cerebrospinal fluid, Urine etc) / gDNA.
- ✓ The test is run using the Oxford Nanopore Technology (ONT) platform, and provides rapid and accurate identification of the pathogens and AMR where applicable.



Test Code	Test Name
DN44	Human Immuno-deficiency Virus [HIV]
DN45	Hepatitis B Virus [HBV]
DN46	Hepatitis C Virus [HCV]
DN47	Human Papilloma Virus [HPV]

Sample	<ul style="list-style-type: none"> 6mL whole blood in EDTA / 2mL Plasma for <u>HIV, HBV, HCV</u>. [Unacceptable specimens: Serum and CSF]. FFPE tissue block or 5 unstained 4-5 micron slides for <u>HPV</u> in head and neck squamous cell carcinoma [Unacceptable specimens: FFPE specimens without tumour tissue / FFPE specimens fixed in formalin substitutes (ie., Bouen or B5 fixatives), alternative fixatives or heavy metal fixatives (B-4 or B-5) / Decalcified specimens]. 3mL Cervical, anal, or vaginal specimen with brush or spatula from ThinPrep or SurePath collection kits for <u>HPV</u>.
Technology	RT-PCR
TAT	24 hours



Test Code	Test Name
DN16	Carrier Testing

- ✓ Targeted mutation testing in family, when the mutation has already been established in proband

Sample	4mL whole blood in EDTA tube / Saliva / buccal swab / gDNA
Technology	Next-Generation Sequencing [NGS]
TAT	4 weeks

Test Code	Test Name
DN18	Sickle Cell Anaemia Testing

- ✓ Detection of Sickle Cell Anaemia mutations

Sample	4mL whole blood in EDTA tube / Saliva / buccal swab / gDNA
Technology	Next-Generation Sequencing [NGS]
TAT	4 weeks



Test Code	Test Name
DN19	Alpha Thalassemia Testing

✓ Detects point mutations in HBA1 & HBA2 genes

Sample	4mL whole blood in EDTA tube / Saliva / buccal swab / gDNA
Technology	Next-Generation Sequencing [NGS]
TAT	4 weeks

Test Code	Test Name
DN20	Beta Thalassemia Testing

✓ Detects point mutations in HBB gene

Sample	4mL whole blood in EDTA tube / Saliva / buccal swab / gDNA
Technology	Next-Generation Sequencing [NGS]
TAT	4 weeks


Test Code	Test Name
DN21	Single Gene Sequencing



Sample	4mL whole blood in EDTA tube / Saliva / buccal swab / gDNA
Technology	Sanger / Nanopore
TAT	2 weeks

Test Code	Test Name	TAT
DN48	Data Reanalysis	1 week
DN49	Result Interpretation	1 week
DN50	Genetic Counselling	1 week

Success Stories

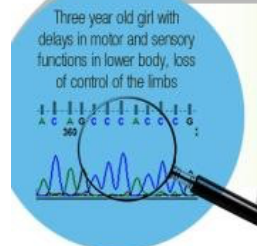

Success Stories in Clinics

Diagnosis of Infantile Naxuroaxonal Dystrophy – a rare genetic disorder

Three year old girl with delays in motor and sensory functions in lower body, loss of control of the limbs

Dhiti Omics found a pathogenic variant in PLA2G6 gene causing the disease

Ended the long diagnostic odyssey and helped the doctor to focus on supportive therapies

Success Stories in Clinics

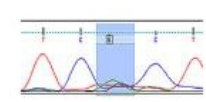
Genetic testing offered hope to family for a healthy baby

Couple with two children having Epidermolysis Bullosa

Children with butterfly-like skin

Tests at Dhiti Omics identified the causative mutation in COL7A1 & PLEC gene leading to Epidermolysis Bullosa

This result offers an option to the family for pre-natal testing in the next pregnancy




Success Stories in Clinics

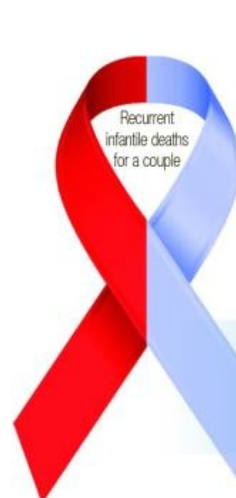
Severe Combined Immunodeficiency (SCID) causes gross abnormalities of the immune system

Unfortunate couple who lost two previous children to SCID were referred to Dhiti Omics

Genetic Tests precisely identified the mutation in ADA gene carried by the couple

Severe Combined Immunodeficiency (SCID)

New ray of hope for the couple – they can have a pre-natal test for the next pregnancy and aspire for a healthy child



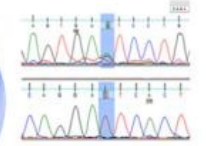
Success Stories in Clinics

Recurrent infantile deaths for a couple

Genetic testing offered hope to family with congenital metabolism disorder

Tests at Dhiti Omics identified the causative mutation in PCCB gene leading to Propionic Acidemia

This result offers an option to the family for pre-natal testing in the next pregnancy




Success Stories in Clinics

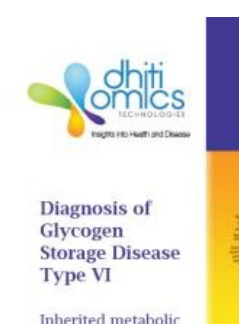
Leigh Syndrome – A rare inherited neuro-metabolic disorder

3 year old girl with motor regression, progressive imbalance, jerky movements during sleep

Diagnosis of Leigh Syndrome is generally difficult because of the broad variability in clinical symptoms

Dhiti Omics found pathogenic mutations in FOXRED 1 and SURF1 gene causing the disease

Accurate and precise diagnosis of disease with genetic testing

Success Stories in Clinics

Diagnosis of Glycogen Storage Disease Type VI

Inherited metabolic disorder that affects liver

2.5 year old boy with abdominal distension, enlarged liver, low blood sugar

Tests at Dhiti Omics identified the causative mutation in PYGL gene leading to Glycogen Storage Disease Type VI

Genetic testing pinpoints the diagnosis in a single test - obviates the need of a series of different tests including invasive procedures

Success Stories



Success Stories in Clinics

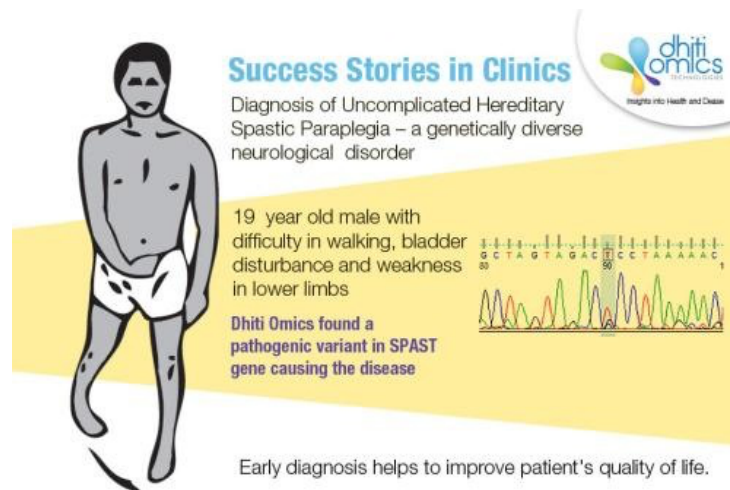
Niemann Pick Disease – Group of rare metabolic disorders passed down through families

Couple with previous children having Niemann Pick Disease type A

- Swelling of abdomen, swollen lymph nodes, difficulty in feeding

Tests at Dhiti Omics confirmed the couple as carriers of mutation in SMPD1 gene causing the disease

Opportunity for the family to have a healthy child – through Pre-natal diagnosis for next pregnancy



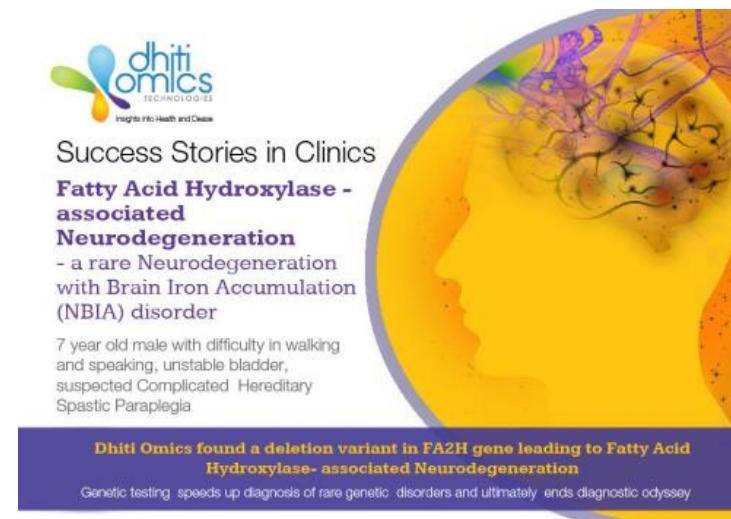
Success Stories in Clinics

Diagnosis of Uncomplicated Hereditary Spastic Paraplegia – a genetically diverse neurological disorder

19 year old male with difficulty in walking, bladder disturbance and weakness in lower limbs

Dhiti Omics found a pathogenic variant in SPAST gene causing the disease

Early diagnosis helps to improve patient's quality of life.



Success Stories in Clinics

Fatty Acid Hydroxylase - associated Neurodegeneration

- a rare Neurodegeneration with Brain Iron Accumulation (NBIA) disorder

7 year old male with difficulty in walking and speaking, unstable bladder, suspected Complicated Hereditary Spastic Paraplegia

Dhiti Omics found a deletion variant in FA2H gene leading to Fatty Acid Hydroxylase- associated Neurodegeneration

Genetic testing speeds up diagnosis of rare genetic disorders and ultimately ends diagnostic odyssey

Awareness Building Activities



Workshops for Clinicians | CMEs at Hospitals | Conference Participation

Advantages of Dhiti Omics



- 01 **Quickest Team that pioneered genomics in India and ran the genomics business profitably and consistently for over 2 decades**
- 02 **Strong advisory group**
- 03 **Strong partnership with global technology companies through parent company**
- 04 **Domain and technology expertise**
- 05 **Ethical**

Thank You

Dhiti Omics Technologies Pvt. Ltd.

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