

PATIENT DATA

CLINIC/DEPARTMENT/PRACTICE



**UNIVERSITÄTS
KLINIKUM** FREIBURG

**Human Genetics – Diagnostics Laboratory
for Cytogenetics and Molecular Genetics**

Medical director:
Prof. Dr. med. Dr. Judith Fischer
Please send samples to:
Institut für Humangenetik
Universitätsklinikum Freiburg
Breisacher Straße 33 | D-79106 Freiburg i. Br.
Tel.: +49 (0)761-270-70570

REQUEST FOR MOLECULAR GENETIC TESTING

PATIENT DATA

LAST NAME, first name(s): _____

Date of birth: _____ Sex: male female Pregnancy: no yes

Street: _____ ZIP Code, City: _____

Country: _____

PAYMENT INFORMATION

Please add in any case a confirmation for cost absorption and indicate the billing address.

For a cost estimate please contact molekulargenetik.humangenetik@uniklinik-freiburg.de.

private health insurance inpatient self-pay patient

SAMPLE TYPE

EDTA-blood DNA, isolated from (tissue) _____ Amount/Conc.: _____

Tissue, fresh/fixed other: _____ Date of extraction: _____

INFORMATION ABOUT THE PATIENT

Medical indication / history (please add medical reports)

Pedigree:

■ Is the family consanguineous? yes no

■ Has there been molecular genetic testing in the patient or the patient's family before? yes no

■ If yes, what has been tested in whom and what was the result? (please add report, if possible) _____

■ Ethnic origin: _____

■ The patient is supposed to be tested for a familial mutation. yes no

Mutation: _____ Gene: _____ (please add medical report)

Date

Stamp and Signature Requesting Physician



INFORMED CONSENT

I have received a thorough explanation from my physician with regard to the disease, its possible genetic origin, and the significance and limitations of the planned genetic test(s). All my questions have been answered and I have had the necessary time to consider giving my consent. I hereby consent to genetic testing to determine the genetic cause of the below mentioned clinical condition.

Clinical Diagnosis/Symptoms: _____

I consent to the storage and usage of my personal and medical data as well as the remaining test material beyond the legally defined period for verification of results and quality assurance. yes no

I consent to the usage of my personal and medical data for research purposes regarding the above mentioned clinical diagnosis/symptoms in a pseudonymized form. yes no

I would like to be informed about relevant test results. yes no

Occasionally, additional test results are incidentally obtained which may or may not be related to the above mentioned clinical diagnosis/symptoms. I would like to be informed about these kinds of test results. yes no

I consent to the storage of my personal and medical data beyond the legally defined period. For this, the data is archived and transmitted to a professional external service provider for a short period of time. yes no

I consent to the usage of my personal and medical data for the purpose of counselling and testing family members regarding the above mentioned clinical condition. yes no

I was informed about being able to revoke my consent at any time without providing a reason.

Date

Signature Patient
(Legal Representative for minor child)

Requesting Physician		Stamp
LAST NAME, First Name		
Street		
ZIP Code, City		
Country		
Phone		
E-Mail		
Date		Signature

EYE DISEASES

CONGENITAL STATIONARY RETINAL DYSTROPHY

- GNAT1, RHO, NYX, CACNA1F, TRPM1, LRIT3* | 6 genes

ACHROMATOPSY

- CNGB3, CNGA3, GNAT2, PDE6C, PDE6H* | 5 genes

CHORIODEREMIA

- CHM, RPE65, OAT* | 3 genes

CORNEAL DYSTROPHY

- DCN, CHST6, COL8A2, GSN, KRT12, KRT3, PIKFYVE, SLC4A11, TACSTD2, TGFB1, UBIAD1, ZEB1* | 12 genes

LEBER'S CONGENITAL AMAUROSIS

- GUCY2D, RPE65, AIPL1, CRB1, RPGRIP1, LCA5, NMNAT1, CEP290, IMPDH1* | 9 genes

LEBER'S HEREDITARY OPTIC NEUROPATHY

- MT-ND4, MT-ND1, MT-ND6, MT-ND2, MT-ND4L* | 5 genes

CHOROID MELANOMA

- GNA11, GNAQ*; exon 4 and exon 5 each
- Chromosome 3 status (microsatellites)

STARGARDT DISEASE AND MACULAR DYSTROPHIES

- ABCA4, BEST1, CNGB3, CRB1, ELOVL4, IMPG1, PROM1, PRPH2, RPGR* | 9 genes

OPTIC ATROPHY

- OPA1, OPA3, MFN2* | 3 genes

RETINITIS PIGMENTOSA

- autosomal dominant and X-linked | 10 genes
RHO, PRPF31, PRPH2, RP1, IMPDH1, PRPF8, KLHL7, NR2E3, RPGR, RP2
- autosomal recessive und X-linked | 13 genes
USH2A, ABCA4, RPGR, RP2, PDE6A, PDE6B, RPE65, CNGA1, EYS, CRB1, CERKL, PROM1, PDE6C

CONE AND CONE-ROD DYSTROPHY

- ABCA4, GUCY2D, RPGR, CRX, PRPH2, RPGRIP1, PROM1, CNGB3, RDH5, ADAM9, AIPL1, CNGA3, PDE6C, CERKL, KCNV2* | 15 genes

RETINITIS PUNCTATA

- RDH5, PRPH2, RHO* | 3 genes

VASCULAR AND CONNECTIVE TISSUE DISORDERS

MARFAN SYNDROME

- FBN1, TGFBR1, TGFBR2* | 3 genes

MARFAN-LIKE

- ADAMTSL4, MED12, SKI, UPF3B, ZDHHC9* | 5 genes

LOEYS-DIETZ SYNDROME

- TGFBR1, TGFBR2, SMAD3, TGFB2* | 4 genes

BEALS SYNDROME

- FBN2*

THORACIC AORTIC ANEURYSM AND AORTIC DISSECTION

- ACTA2, MYH11, MYLK, COL3A1, FBN1, SMAD3, TGFB2, TGFBR1, TGFBR2, MAT2A, MFAP5, PRKG1, FLNA, TGFB3, EFEMP2, FBLN5, SCL2A10* | 17 genes

EHLERS-DANLOS SYNDROME, CLASSIC TYPE (TYPE I and II)

- COL5A1, COL5A2* | 2 genes

EHLERS-DANLOS SYNDROME, HYPERMOBILE TYPE (TYPE III)

- TNXB*

EHLERS-DANLOS SYNDROME, VASCULAR TYPE (TYPE IV)

- COL3A1*

EHLERS-DANLOS SYNDROME, KYPHOSKOLIOSIS TYPE (TYP VII)

- COL1A1, COL1A2* | 2 genes

EHLERS-DANLOS SYNDROME WITH PERIVENTRICULAR HETEROTOPIA

- FLNA*

EHLERS-DANLOS SYNDROME, RECESSIVE SUBTYPES

- ADAMTS2, B3GALT6, B4GALT7, CHST14, COL1A2, DSE, FKBP14, PLOD1, SLC39A13* | 9 genes



SKIN DISEASES

1. ICHTHYOSSES

NON SYNDROMAL ICHTHYOSSES

COMMON ICHTHYOSSES

- FLG, STS* | 2 genes

KERATINOPATHIC ICHTHYOSSES

- KRT1, KRT10, KRT2* | 3 genes

SYNDROMAL ICHTHYOSSES (AUTOSOMAL RECESSIVE)

ENTIRE SUBPANEL

- ABHD5 (CGI58), ALDH3A2, AP1S1, MPLKIP, CLDN1, ERCC2, ERCC3, GJB2, GJB6, GTF2H5, PHYH, POMP, SLC27A4, SNAP29, SPINK5, ST14, SUMF1, VPS33B* | 18 gene

NETHERTON SYNDROME

- SPINK5*

ICHTHYOSIS-HYPOTRICHOSIS SYNDROME (IHS)

- ST14*

NEONATAL ICHTHYOSIS-HYPOTRICHOSIS-SCLEROSING CHOLANGITIS SYNDROME (IHSC)

- CLDN1*

TRICHOThIODYSTROPHY

- GTF2H5, ERCC2, ERCC3, MPLKIP* | 4 genes

KID SYNDROME (KERATITIS-ICHTHYOSIS-DEAFNESS)

- GJB2, GJB6* | 2 genes

ICHTHYOSIS-PREMATURITY SYNDROM (IPS)

- FATP4 (SLC27A4)*

SYNDROMAL ICHTHYOSSES (X-CHROMOSOMAL)

ENTIRE SUBPANEL

- STS, MBTPS2, PORCN, NSDHL, EBP* | 5 genes

SYNDROMAL X-CHR. REZESSIVE ICHTHYOSIS

(Deletion analysis including adjacent genes)

- STS*

ICHTHYOSIS FOLLICULARIS – ALOPECIA – PHOTOPHOBIA SYNDROME (IFAP)

- MBTPS2*

AUTOSOMAL RECESSIVE CONGENITAL ICHTHYOSSES (ARCI)

- TGM1, NIPAL4, ALOX12B, CYP4F22, ALOXE3, PNPLA1, CERS3, ABCA12, SDR9C7, SULT2B1, CASP14* | 11 genes

SJÖGREN-LARSSON SYNDROME

- ALDH3A2*

REFSUM SYNDROME (HMSN4)

- PHYH*

MEDNIK SYNDROME

- AP1S1*

CEDNIK SYNDROME

- SNAP29*

ARTHROGRYPOSIS-RENAL DYSFUNCTION-CHOLESTASIS SYNDROME

- VPS33B*

MULTIPLE SULFATASE DEFICIENCY

- SUMF1*

CHANARIN-DORFMAN SYNDROME

- ABHD5 (CGI58)*

KLICK SYNDROME

- POMP*

GOLTZ-GORLIN SYNDROME, FOCAL DERMAL HYPOPLASIA

- PORCN*

CHILD SYNDROME

- NSDHL*

CONRADI-HÜNERMANN-HAPPLE SYNDROME

- EBP*

2. HYPERKERATOSES UND PEELING-SKIN SYNDROME

MORBUS DARIER

- ATP2A2*

SEVERE DERMATITIS – MULTIPLE ALLERGIES – METABOLIC WASTING – SYNDROME (SAM)

- DSG1, DSP* | 2 genes

OLMSTED SYNDROME

- MBTPS2, TRPV3* | 2 genes

PEELING-SKIN SYNDROME

- TGM5, CDSN, SERPINB8, CHST8, CSTA* | 5 genes

3. PALMOPLANTAR KERATODERMA

PANEL DIFFUSE PPK

- KRT1, KRT9, SLURP1, SERPINB7, AQP5, CARD14, GJB2, TRPV3, MBTPS2, JUP, POMP, CTSC, SERPINB8* | 13 genes

PACHYONYCHIA CONGENITA

- KRT6A, KRT6B, KRT16, KRT17* | 4 genes

DYSPLASIA WITH ASSOCIATED PPK

- KRT16, KRT17, KRT6A, KRT6B, CTSC, WNT10A, GJB6* | 7 genes

OTHER DISEASES WITH PPK

- DSC2, KANK2, MT-TS1, PTEN, GJB4, TAT* | 6 genes

PANEL STRIATE PPK

- KRT6C, KRT16, DSG1, DSP, KRT1, RHBDF2, KRT6A, KRT6B, KRT17* | 9 genes

PANEL PUNCTATED PPK

- AAGAB, COL14A1, ENPP1* | 3 genes

PPK WITH ERYTHROKERATODERMA (PERIORIFICIAL, SKIN FOLDS)

- KDSR* | 1 gene

4. EPIDERMOLYSIS BULLOSA

EPIDERMOLYSIS BULLOSA SIMPLEX - SUPRABASAL

- TGM5, DSP, JUP, PKP1* | 4 genes

EPIDERMOLYSIS BULLOSA SIMPLEX - BASAL COMMON SUBTYPES

- KRT5, KRT14, KLHL24, TGM5* | 4 genes

EPIDERMOLYSIS BULLOSA SIMPLEX - BASAL RARE SUBTYPES

- DST, EXPH5, PLEC* | 3 genes

DYSTROPHIC EPIDERMOLYSIS BULLOSA

- COL7A1*

JUNCTIONAL EPIDERMOLYSIS BULLOSA

- LAMA3, LAMB3, LAMC2, COL17A1* | 4 genes

JUNCTIONAL EPIDERMOLYSIS BULLOSA WITH/WITHOUT PYLORIC ATRESIA

- ITGA6, ITGB4* | 2 genes

JUNCTIONAL EPIDERMOLYSIS BULLOSA WITH LUNG AND KIDNEY INVOLVEMENT

- ITGA3*

KINDLER SYNDROME

- FERMT1*

5. OTHER GENODERMATOSES

ERYTHROKERATODERMIA VARIABILIS

- GJB3, GJB4, GJA1, CARD14* | 4 genes

PUSTULAR PSORIASIS, PITYRIASIS RUBRA PILARIS

- IL36RN, CARD14* | 2 genes

PARKES-WEBER SYNDROME

- RASA1*

MONILETHRIX

- KRT81, KRT83, KRT86* | 3 genes

AKNE INVERSA

- PSEN1, PSENEN, NCSTN* | 3 genes

BROOKE-SPIEGLER SYNDROME

- CYLD*

COLE DISEASE

- ENPP1*

ROTHMUND-THOMSON SYNDROME

- RECQL4*

WHITE SPONGE NEVUS

- KRT4, KRT13* | 2 genes

RESTRICTIVE DERMOPATHY

- ZMPSTE24, LMNA* | 2 genes



CARDIAC DISEASES

BRUGADA SYNDROME

- SCN5A, CACNA1C, CACNB2, KCNE3, TRPM4, GPD1L, SCN1B, HCN4, KCNJ8, CACNA2D1, KCND3, KCNE5, RANGRF, SCN2B, SCN3B, SLMAP, SCN10A* | 17 genes

CATECHOLAMINERGIC POLYMORPHIC VENTRICULAR TACHYCARDIA (CPVT)

- RYR2, CASQ2, CALM1, CALM2, TRDN* | 5 genes

LONG-QT SYNDROME

- KCNQ1, KCNH2, SCN5A, CACNA1C, KCNE1, KCNE2, CALM1, CAV3, KCNE3, KCNJ2, KCNJ5, NOS1AP, SCN4B, AKAP9, ANK2, SNTA1* | 16 genes

ATRIAL FIBRILLATION

- ABCC9, GJA5, KCNA5, KCNE1, KCNE2, KCNJ2, KCNQ1, NKX2-5, NPPA, SCN2B, SCN3B, SCN4B, SCN5A* | 13 Gene

HYPOPLASTIC LEFT HEART SYNDROME

- GJA1, NKX2-5* | 2 genes

ARRHYTHMOGENIC RIGHT VENTRICULAR DYSPLASIA (ARVD)

- PKP2, DSG2, DSP, DSC2, JUP, TGFB3, TMEM43, LMNA, CTNNA3, RYR2* | 10 genes

DILATED CARDIOMYOPATHY (DCM)

- LMNA, MYH7, MYBPC3, SCN5A, TNNT2, TNNI3, CAV3, DES, DSG2, PLN, DSP, ABCC9* | 12 genes

HYPERTROPHIC CARDIOMYOPATHY (HCM)

- MYBPC3, MYH7, TNNI3, TNNT2, MYL2, PLN, PRKAG2, TPM1* | 8 genes

NON-COMPACTION CARDIOMYOPATHY (NCCM)

- MYBPC3, MYH7, TPM1, ACTC1, LDB3, PRDM16, TAZ, TNNT2* | 8 genes

IDIOPATHIC VENTRICULAR FIBRILLATION

- DPP6, KCNJ8, SCN5A* | 3 genes



NEUROLOGICAL DISEASES

PARKINSON DISEASE

- PRKN, PINK1, DJ1, DNAJC6, SYNJ1, SNCA, LRRK2, VPS35, EIF4G1, GBA* | 10 genes

DYSTONIA

- TH, SPR, TOR1A, TUBB4A, GCH1, THAP1, SGCE, ATP1A3, CIZ1, ANO3, GNAL* | 11 genes

ATAXIA (autosomal recessive)

- VLDLR*

HETEROTOPIA

- ARFGEF2, FLNA* | 2 genes

CONGENITAL MUSCULAR DYSTROPHY WITH DYSTROGLYCANOPATHY

- FKRP, FKTN, LARGE1, POMT1, POMT2* | 5 genes

CORTICAL DYSPLASIA (WITH POLYMICROGYRIA)

- TUBB3*

LISSENCEPHALIA

- PAFAH1B1, RELN, TUBA1A, NDE1, DCX, ARX, TBR2* | 7 genes

CONGENITAL PRIMARY MICROCEPHALY

- ASPM, WDR62, MCPH1, CDK5RAP2, CENPJ, CDK6, CEP135, CEP152, PHC1, PNKP, STIL* | 11 genes

POLYMICROGYRIA

- GPR56, TUBA8, TUBB2B* | 3 genes

ATYPICAL RETT SYNDROME

- FOXG1*

WARBURG MICRO SYNDROME

- RAB18, RAB3GAP1, RAB3GAP2* | 3 genes

HUNTINGTON DISEASE

- HTT* (Trinucleotide-Repeat-Analysis)

MOEBIUS SYNDROME

- HOXB1, TUBB3* | 2 genes

MUSCLE EYE BRAIN DISEASE (MEB)

- FKRP, POMGNT1* | 2 Gene



METABOLIC DISEASES

DIABETES INSIPIDUS

TYROSINEMIA

AQP2, AVP, AVPR2

NEUTRAL LIPID STORAGE MYOPATHY

PNPLA2 (ATGL)

MORBUS GAUCHER

GBA

FAH, HPD, TAT

CYSTIC FIBROSIS

CFTR



TUMOR DISEASES

HEREDITARY BREAST AND OVARIAN CANCER (HBOC)

BRCA1, BRCA2, CHEK2, PALB2, RAD51C, BARD1, BRIP1, MRE11A, NBN, PTEN, RAD50, RAD51D, TP53, BLM, CDH1, FAM175A, MEN1, STK11, XRCC2 | 19 genes

HEREDITARY NON-POLYPOSIS COLORECTAL CANCER SYNDROME (HNPCC)

MLH1, PMS, MSH2, MSH6 | 4 genes

FAMILIAL ADENOMATOUS POLYPOSIS (FAP)

APC, MUTYH | 2 genes

FAMILIAL PANCREATIC CARCINOMA

BRCA2, STK11, PALB2, BRCA1, TP53, MEN1, MLH1, PMS2, MSH2, MSH6, ATM | 11 genes

HEREDITARY DIFFUSE GASTRIC CANCER

CDH1, MSH6 | 2 genes

OTHER TUMOR PREDISPOSITION SYNDROMES

Li-Fraumeni Syndrome | *TP53*
 Birt-Hogg-Dubé Syndrome | *FLCN*
 Hamartom-Tumor Syndrome | *PTEN*
 Peutz-Jeghers Syndrome | *STK11*
 Von-Hippel-Lindau Syndrome | *VHL*



OTHER DISEASES

AZOOSPERMIA

AZF-Factors

CONGENITAL BILATERAL ABSENCE OF VAS DEFERENS

CFTR

CAMPOMELIC DYSPLASIA

SOX9

OROFACIODIGITAL SYNDROME

OFD1

SENSORINEURAL DEAFNESS (TYPE DFNA and DFNB)

GJB2 (CX26), GJB6 (CX30), GJA1 (CX 43)

NEUROFIBROMATOSIS TYPE I

NF1