



**Requesting physician:**

**Patient information:**

**Request Form Familial Tumor Predispositions**

**Cause of examination:**     diagnostic     predictive for familial mutation \_\_\_\_\_

**Clinical information:**

**Family history:**

- Patient clinically affected
- No previous molecular genetic examinations existent
- The following previous molecular genetic examinations have been done:  
\_\_\_\_\_

**Date / Time of sampling:**

**Signature:**

**Specimen requirements and logistics:**

- Patient Consent Form for Genetic Testing according to the German Law and Request Form
- Billing information (Insurance-, Institutional- or Selfpay-Billing)
- 5 ml EDTA blood collection tube labeled with patient name and date of birth

Patient name: \_\_\_\_\_ DOB: \_\_\_\_\_

### Therapy-relevant diagnostics of BRCA1/BRCA2

- Testing before using a PARP inhibitor  
(genetic counselling is not required before testing)  
(Indication: advanced ovarian carcinoma, metastatic and HER2-negative breast carcinoma, metastatic pancreatic carcinoma after platinum-based chemotherapy, metastatic castration-resistant prostate carcinoma)

- Hereditary Breast-/Ovarian Cancer (HBOC)**  
Step 1: BRCA1, BRCA2, CHEK2, PALB2, RAD51C  
Step 2: ATM, BRIP1, CDH1, EPCAM, MLH1, MSH2, MSH6, PMS2, PTEN, RAD51D, STK11, TP53
- Hereditary Nonpolyposis Colorectal Cancer (HNPCC)/Lynch-Syndrom**  
after pos. MSI or reduction of expression
  - MSH2, MSH6
  - MLH1, PMS2If Amsterdam II criteria are met:
  - Step 1: MLH1, MSH2, MSH6, PMS2
  - Step 2: EPCAM
- Familial adenomatous Polyposis (FAP)**  
APC
- MUTYH- associated Polyposis (MAP)**  
MUTYH
- Polymerase proofreading-associated Polyposis (PPAP)**  
POLD1, POLE
- Panel-Analysis of Polyposis coli**  
APC, MUTYH, POLD1, POLE
- Familial juvenile Polyposis Syndrome**  
BMPR1A, SMAD4
- Peutz-Jeghers-Syndrom**  
STK11
- Cowden-Syndrom**  
PTEN
- Diffuse type gastric cancer**  
CDH1
- Familial gastric cancer**  
BMPR1A, BRCA2, CDH1, CHEK2, EPCAM, MLH1, MSH2, MSH6, PMS2, STK11, TP53
- Familial pancreatic cancer**  
Step 1: BRCA1, BRCA2, CDKN2A, CHEK2, PALB2, STK11  
Step 2: APC, ATM, BMPR1A, EPCAM, MLH1, MSH2, MSH6, PMS2, PTEN, SMAD4, TP53, VHL
- Li Fraumeni-Syndrom**  
TP53, CHEK2
- SchilddrüsenCa gesamt (inkl. MTC)**  
APC, CDKN1B, CHEK2, DICER1, FOXE1, HABP2, MEN1, MINPP1, NKX2-1, NTRK1, PAX8, PTEN, RET, SDHB, SDHD, SEC23B, SRGAP1, TP53, WRN
- Nicht-medulläres SchilddrüsenCa / PTC**  
APC, CHEK2, DICER1, FOXE1, HABP2, MINPP1, NTRK1, PAX8, PTEN, SDHB, SDHD, SEC23B, SRGAP1, TP53, WRN
- Multiple endocrine Neoplasia type 1 (MEN1)**  
MEN1
- Multiple endocrine Neoplasia type 2 (MEN2)**  
RET
- Von Hippel-Lindau-Syndrom**  
VHL
- Fanconi-Anemia**  
Step 1: FANCA, FANCB, FANCC, FANCD2, FANCE, FANCF, FANCG, FANCI, FANCL  
Step 2: BRCA1, BRCA2, BRIP1, FANCM, PALB2, RAD51C, SLX4
- Wilms Tumor**  
WT1
- Familial renal cell carcinoma**  
BAP1, CDKN1C, CHEK2, DICER1, DIS3L2, EPCAM, FH, FLCN, GPC3, HNF1A, MET, MLH1, MSH2, MSH6, PALB2, PMS2, PTEN, SDHA, SDHAF2, SDHB, SDHC, SDHD, TP53, TSC1, TSC2, VHL, WT1
- Hereditary Paraganglioma- Pheochromocytoma Syndrome**  
BAP1, FH, KIF1B, MAX, MEN1, NF1, PRKAR1A, RET, SDHA, SDHAF2, SDHB, SDHC, SDHD, TMEM127, VHL
- Tumor predispositions**  
AIP, AKT1, ALK, APC, ATM, ATR, AXIN2, BAP1, BARD1, BLM, BMPR1A, BRAF, BRCA1, BRCA2, BRIP1, BUB1B, CBL, CCND1, CDC73, CDH1, CDK4, CDKN1B, CDKN2A, CEBPA, CHEK2, CTCF, DDB2, DDX41, DICER1, EGFR, EPCAM, ERCC1, ERCC2, ERCC3, ERCC4, ERCC5, EXT1, EXT2, FANCA, FANCB, FANCC, FANCD2, FANCE, FANCF, FANCG, FANCI, FANCL, FANCM, FAS, FASLG, FH, FLCN, GALNT12, GPC3, HNF1A, HNF1B, HOXB13, HRAS, IL1B, IL1RN, KIF1B, KIT, KRAS, LZTR1, MAD2L2, MAX, MC1R, MEN1, MET, MITF, MLH1, MLH3, MRE11, MSH2, MSH3, MSH6, MUTYH, NBN, NRAS, NTHL1, PALB2, PALLD, PDGFRA, PHOX2B, PIK3CA, PMS2, POLD1, POLE, POT1, PPM1D, PRKAR1A, PRSS1, PTCH1, PTCH2, PTEN, PTPN11, RAD50, RAD51, RAD51C, RAD51D, RAF1, RB1, REST, RET, RFWDF3, RHBDF2, RNF139, RNF43, SDHA, SDHAF2, SDHB, SDHC, SDHD, SEC23B, SLX4, SMAD4, SMARCA4, SMARCB1, SPINK1, SPRED1, SRC, SRGAP1, STK11, SUFU, TERT, TMEM127, TP53, TSC1, TSC2, TYR, UBE2T, VHL, WT1, XPA, XPC, XRCC2