**پانل سندرم های توموری**

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| ردیف | نام بیماری | تعداد ژن | ژن های مورد بررسی |
| 1 | Colon Cancer | 20 | APC, Axin2, BMPR1A, CDH1, CHEK2, EPCAM, FLCN, MLH1, MSH2, MSH6, MUTYH, NBN, PMS2, POLD1, POLE, PTEN, RINT1, SMAD4, STK11, TP53 |
| 2 | Colon Cancer-Polyposis Coli | 7 | APC, BMPR1A, CHEK2, MUTYH, PTEN, SMAD4, STK11 |
| 3 | Colon Cancer- Hereditary Non-Polyposis Colon Cancer (HNPCC) | 5 | EPCAM, MLH1, MSH2, MSH6, PMS2 |
| 4 | Breast and Ovarian Cancer | 11 | ATM, BRCA1, BRCA2, CDH1, CHEK2, PALB2, PTEN, RAD51C, RAD51D, STK11, TP53 |
| 5 | Breast and Ovarian Cancer- extended | 39 | ATM, BARD1, BRCA1, BRCA2, BRIP1, CDH1, CHEK2, EPCAM, FAM175A, FANCA, FANCC, FANCD2, FANCE, FANCF, FANCG, MEN1, MLH1, MRE11A, MSH2, MSH3, MSH6, MUTYH, NBN, NF1, PALB2, PMS2, PTCH1, PTEN, RAD50, RAD51C, RAD51D, RINT1, SDHB, SDHC, SDHD, SLX4, STK11, TP53, XRCC2 |
| 6 | Prostate Cancer | 13 | AR, BRCA1, BRCA2, BTNL2, CD82, CDH1, CHEK2, ELAC2, HOXB13, MSR1, MXI1, RNASEL, ZFHX3 |
| 7 | Pheochromocytoma and Paraganglioma | 13 | CDKN1B, MAX, MEN1, NF1, PRKAR1A, RET, SDHA, SDHAF2, SDHB, SDHC, SDHD, TMEM127, VHL |
| 8 | Other Familial Tumor Syndromes | 32 | AKT1, ATR, BAP1, BLM, CDC73, CDKN2A, CYLD, DICER1, FH, LIG4, LZTR1, MET, NBN, NF1, NF2, PIK3CA, PTEN, RASAL1, RB1, RECQL4, RET, SDHB, SDHC, SDHD, SMARCA4, SMARCB1, SMARCE1, SPRED1, TP53, TSC1, TSC2, WRN |
| 9 | Pancreatic Cancer | 17 | APC, ATM, BRCA1, BRCA2, CDKN2A, EPCAM, MLH1, MSH2, MSH6, PALB2, PALLD, PMS2, PRSS1, SPINK1, STK11, TP53, VHL |
| 10 | Renal CELL CARCINOMA | 24 | BAP1, EPCAM, FH, FLCN, HNF1A, HNF1B, MET, MITF, MLH1, MSH2, MSH6, PALB2, PMS2, PTEN, SDHA, SDHAF2, SDHB, SDHC, SDHD, TP53, TSC1, TSC2, VHL, WT1 |
| 11 | Xeroderma Pigmentosum | 8 | DDB2, ERCC2, ERCC3, ERCC4, ERCC5, POLH, XPA, XPC |
| 12 | Familial Melanoma | 8 | BAP1, CDK4, CDKN2A, MC1R, MITF, POT1, PTEN, RB1 |
| 13 | Fanconi anemia | 16 | BRCA1, BRCA2, BRIP1, FANCA, FANCB, FANCC, FANCD2, FANCE, FANCF, FANCG, FANCI, FANCL, FANCM, PALB2, RAD51C, SLX4 |
| 14 | Complete Panel- Tumor Syndromes | 110 | AKT1, APC, AR, ATM, ATR, AXIN2, BAP1, BARD1, BLM, BMPR1A, BRCA1, BRCA2, BRIP1, BTNL2, CD82, CDC73, CDH1, CDK4, CDKN1B, CDKN2A, CHEK2, CYLD, DDB2, DICER1, ELAC2, EPCAM, ERCC1, ERCC2, ERCC3, ERCC4, ERCC5, FAM175A, FANCA, FANCB, FANCC, FANCD2, FANCE, FANCF, FANCG, FANCI, FANCL, FANCM, FH, FLCN, HNF1A, HNF1B, HOXB13, LIG4, LZTR1, MAX, MC1R, MEN1, MET, MITF, MLH1, MRE11A, MSH2, MSH3, MSH6, MSR1, MUTYH, MXI1, NBN, NF1, NF2, PALB2, PALLD, PIK3CA, PMS2, POLD1, POLE, POLH, POT1, PRKAR1A, PRSS1, PTCH1, PTEN, RAD50, RAD51C, RAD51D, RASAL1, RB1, RECQL4, RET, RINT1, RNASEL, SDHA, SDHAF2, SDHB, SDHC, SDHD, SLX4, SMAD4, SMARCA4, SMARCB1, SMARCE1, SPINK1, SPRED1, STK11, TMEM127, TP53, TSC1, TSC2, VHL, WRN, WT1, XPA, XPC, XRCC2, ZFHX3 |