

EGFR (tyrosine kinase) mutation:

- NSCLC (non-small cell lung cancer)
- Glioblastoma
- Colorectal cancer
- Pancreatic cancer
- Lung cancer

NF1 mutation (17q):

- Neurofibromatosis type I

K-Ras point mutation:

- Colorectal cancer
- NSCLC (non-small cell lung cancer)

B-Raf mutation:

- Melanoma
- Non-Hodgkin lymphoma
- Papillary thyroid carcinoma
- Colorectal cancer (sporadic type)

RB deletion (13q):

- Familial (2nd hit somatic)
 - Bilateral Retinoblastoma
 - Osteosarcoma
- Sporadic (both hits somatic)
 - Unilateral Retinoblastoma

TP53 mutation (17p):

- Li-Fraumeni Syndrome (germline)
- Most cancers

c-MYC translocation:

- Burkitt lymphoma
- t(8;14) involving IgH

N-MYC amplification:

- Neuroblastoma

L-MYC amplification:

- small cell lung carcinoma

CCND1 (cyclin D) translocation:

- Mantle cell lymphoma
- t(11;14) involving IgH

CDK4 amplification:

- Melanoma

