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**Mutational and Network Level Mechanisms Underlying Resistance to Anti-cancer
Kinase Inhibitors**

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Keywords

Feedback regulation, Gatekeeper mutation, Network biology, Protein kinase, Resistance to drugs, Signal transduction

List of abbreviations

ALK, anaplastic lymphoma kinase
ALL, acute lymphoblastic leukemia
CLL, chronic lymphocytic leukemia
CML, chronic myelogenous leukemia
CNS, central nervous system
CRC, colorectal cancer
DTC, differentiated thyroid carcinoma
DUSP, dual specificity phosphatase
EGFR, epidermal growth factor receptor
EMT, epithelia-to-mesenchymal transition
ERK, extracellular regulated kinase
FGF, fibroblasts growth factor
GIST, gastrointestinal stromal tumor
HER2, human EGF receptor 2
HGF, hepatocyte growth factor
IGF1, insulin-like growth factor 1
mAb, monoclonal antibody

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