

**Table 1.** Summary of mutated genes frequently found in blood/plasma ctDNA for diagnosis

<b>Tumors</b>	<b>Genes</b>	<b>Main references</b>
Prostate Cancer	TP53, RB1, PTEN, AR, FOXA1, MYC, ERG, PI3K, and WNT	Hodara et al., 2019
Colon-rectal Cancer	BRAF, KRAS, APC, TP53, CEA, and SEPT9	Mathai et al., 2019
Lung Cancer	TP53, KRAS, EGFR, BRAF, ERBB2 and PIK3CA, FGFR1, HER2, KRAS, ROS1 and RET	Couraud et al., 2014; Del Re et al., 2017; Doval et al., 2017
Hepatocellular carcinoma	TP53, CTNNB1, PTEN, CDKN2A, ARID1A, MET, CDK6, EGFR, MYC, BRAF, RAF1, FGFR1, CCNE1, PIK3CA and ERBB2 / HER2	Mahtai et al., 2019
Breast Cancer	HER2, BRCA1, TP53, PIK3CA	Mathai et al., 2019; Shah et al., 2009; Nik - Zainal et al., 2012
Head and neck cancers	<i>TP53, PIK3CA, NOTCH1, FBXW7, CDKN2A, NRAS and HRAS</i>	Wang et al. 2015
Pancreatic cancer	KRAS, BRAF	Qi et al., 2018; Lu et al., 2018; Witkiewicz et al., 2015
Gastric cancer	HER2, FGFR, CDH1, PI3K, Met, VEGFR, TP53, and DP-1	Mathai et al., 2019; Matsuoka et al., 2020
Gliomas	IDH, EGFR, KRAS, MGMT	Zachariah et al., 2018

**Table 2.** Summary of mutated genes frequently found in blood/plasma ctDNA for monitoring treatment and recurrence

<b>Tumors</b>	<b>Genes</b>	<b>Main references</b>
Colon-rectal Cancer and NSCLC	KRAS, BRAF, EGFR, ALK	Heitzer et al. 2019; Mehes et al., 2019; Roengvoraphoj et al., 2013; Afrăsânie et al., 2019; Lu et al., 2018; Liu et al., 2016;
Breast cancer	PIK3CA	Cheng et al., 2019
Ovarian cancer	RB1	Murtaza et al., 2013
Hepatocellular carcinoma	TP53, TERT, CTNNB1, ARID1A, MYC, BRAF, CCND1, CDK6, MET, EGFR and PI3K-mTOR	Mody et al., 2019; Harding et al., 2018
Pancreatic cancer	KRAS	Del re et al., 2017