

Systematic review for DDR response to immunotherapy

Research question: Have the DDR pathway a role in immunotherapy response in NSCL patients?

Population: NSCLC patients treated with immunotherapy

Intervention: immunotherapy

Comparator: -

Outcome: Overall survival, progression free survival

Study: any

Exclusion criteria:

Population	NSCLC patients treated with immunotherapy	
Intervention	immunotherapy	
Comparator	Any type of control	-
Outcome		
Study		

Exclusion criteria		

PUBMED:

(NSCLC[tiab]) OR (lung tumor*[tiab]) OR (lung tumour*[tiab]) OR (lung carcinoma*[tiab]) OR (lung adenocarcinoma*[tiab])

AND

(pMMR[tiab]) OR (dMMR[tiab]) OR (MMR[tiab]) OR (Mismatch Repair[tiab]) OR (MLH1[tiab]) OR (MLH3[tiab]) OR (MSH2[tiab]) OR (MSH6[tiab]) OR (PMS1[tiab]) OR (PMS2[tiab]) OR (DNA Damage Sensing[tiab]) OR (ATM[tiab]) OR (ATR[tiab]) OR (CHEK1[tiab]) OR (CHEK2[tiab]) OR (Homologous Recombination[tiab]) OR (HRD[tiab]) OR (DDR[tiab]) OR (BRCA1[tiab]) OR (BRCA2[tiab]) OR (RAD21[tiab]) OR (RAD50[tiab]) OR (RAD51[tiab]) OR (RAD51C[tiab]) OR (RAD51D[tiab]) OR (RAD52[tiab]) OR (RAD54B[tiab]) OR (PALB2[tiab]) OR (BRIP1[tiab]) OR (BARD1[tiab]) OR (BAP1[tiab]) OR (Nucleotide Excision Repair[tiab]) OR (ERCC1[tiab]) OR (ERCC2[tiab]) OR (ERCC3[tiab]) OR (ERCC4[tiab]) OR (ERCC5[tiab]) OR (ERCC6[tiab]) OR (Base excision Repair[tiab]) OR (BER[tiab]) OR (XRCC1[tiab]) OR (XRCC2[tiab]) OR (XRCC3[tiab]) OR (XRCC4[tiab]) OR (XRCC5[tiab]) OR (XRCC6[tiab]) OR (DNA Polymerase[tiab]) OR (POLB[tiab]) OR (POLD1[tiab]) OR (POLE[tiab]) OR (POLH[tiab]) OR (POLQ[tiab]) OR (Fanconi Anemia[tiab]) OR (FANCA[tiab]) OR (FANCB[tiab]) OR (FANCC[tiab]) OR (FANCD2[tiab]) OR (FANCE[tiab]) OR (FANCF[tiab]) OR (FANCG[tiab]) OR (FANCI[tiab]) OR (FANCL[tiab]) OR (FANCM[tiab]) OR (NEIL1[tiab]) OR (NEIL2[tiab]) OR (NEIL3[tiab]) OR (c11orf30[tiab]) OR (ARID1A1[tiab])

AND

(immunotherapy*[tiab]) OR (Atezolizumab[tiab]) OR (Nivolumab[tiab]) OR (Durvalumab[tiab]) OR (Pembrolizumab[tiab]) OR (anti-PD1[tiab]) OR (anti-PDL1[tiab]) OR (anti PD-L1[tiab]) OR (anti PD-1[tiab]) OR (anti-PD-L1[tiab]) OR (anti-PD-1[tiab]) OR (immune checkpoint inhibitor*[tiab]) OR (PD-(L)1 blockade*[tiab]) OR (PD-1 blockade*[tiab])

WoS Advanced

((TI=NSCLC OR AB=NSCLC)) OR ((TI="lung tumor*" OR AB="lung tumor*")) OR ((TI="lung tumour*" OR AB="lung tumour*")) OR ((TI="lung carcinoma*" OR AB="lung carcinoma*")) OR ((TI="lung adenocarcinoma*" OR AB="lung adenocarcinoma*"))

((TI=pMMR OR AB=pMMR)) OR ((TI=dMMR OR AB=dMMR)) OR ((TI=MMR OR AB=MMR)) OR ((TI="Mismatch Repair" OR AB="Mismatch

Repair")) OR ((TI=MLH1 OR AB=MLH1)) OR ((TI=MLH3 OR AB=MLH3)) OR ((TI=MSH2 OR AB=MSH2)) OR ((TI=MSH6 OR AB=MSH6)) OR ((TI=PMS1 OR AB=PMS1)) OR ((TI=PMS2 OR AB=PMS2)) OR ((TI="DNA Damage Sensing" OR AB="DNA Damage Sensing")) OR ((TI=ATM OR AB=ATM)) OR ((TI=ATR OR AB=ATR)) OR ((TI=CHK1 OR AB=CHK1)) OR ((TI=CHK2 OR AB=CHK2)) OR ((TI="Homologous Recombination" OR AB="Homologous Recombination")) OR ((TI=HRD OR AB=HRD)) OR ((TI=DDR OR AB=DDR)) OR ((TI=BRCA1 OR AB=BRCA1)) OR ((TI=BRCA2 OR AB=BRCA2)) OR ((TI=RAD21 OR AB=RAD21)) OR ((TI=RAD50 OR AB=RAD50)) OR ((TI=RAD51 OR AB=RAD51)) OR ((TI=RAD51C OR AB=RAD51C)) OR ((TI=RAD51D OR AB=RAD51D)) OR ((TI=RAD52 OR AB=RAD52)) OR ((TI=RAD54B OR AB=RAD54B)) OR ((TI=PALB2 OR AB=PALB2)) OR ((TI=BRIP1 OR AB=BRIP1)) OR ((TI=BARD1 OR AB=BARD1)) OR ((TI=BAP1 OR AB=BAP1)) OR ((TI="Nucleotide Excision Repair" OR AB="Nucleotide Excision Repair")) OR ((TI=ERCC1 OR AB=ERCC1)) OR ((TI=ERCC2 OR AB=ERCC2)) OR ((TI=ERCC3 OR AB=ERCC3)) OR ((TI=ERCC4 OR AB=ERCC4)) OR ((TI=ERCC5 OR AB=ERCC5)) OR ((TI=ERCC6 OR AB=ERCC6)) OR ((TI="Base excision Repair" OR AB="Base excision Repair")) OR ((TI=BER OR AB=BER)) OR ((TI=XRCC1 OR AB=XRCC1)) OR ((TI=XRCC2 OR AB=XRCC2)) OR ((TI=XRCC3 OR AB=XRCC3)) OR ((TI=XRCC4 OR AB=XRCC4)) OR ((TI=XRCC5 OR AB=XRCC5)) OR ((TI=XRCC6 OR AB=XRCC6)) OR ((TI="DNA Polymerase" OR AB="DNA Polymerase")) OR ((TI=POLB OR AB=POLB)) OR ((TI=POLD1 OR AB=POLD1)) OR ((TI=POLE OR AB=POLE)) OR ((TI=POLH OR AB=POLH)) OR ((TI=POLQ OR AB=POLQ)) OR ((TI="Fanconi Anemia" OR AB="Fanconi Anemia")) OR ((TI=FANCA OR AB=FANCA)) OR ((TI=FANCB OR AB=FANCB)) OR ((TI=FANCC OR AB=FANCC)) OR ((TI=FANCD2 OR AB=FANCD2)) OR ((TI=FANCE OR AB=FANCE)) OR ((TI=FANCF OR AB=FANCF)) OR ((TI=FANCG OR AB=FANCG)) OR ((TI=FANCI OR AB=FANCI)) OR ((TI=FANCL OR AB=FANCL)) OR ((TI=FANCM OR AB=FANCM)) OR ((TI=NEIL1 OR AB=NEIL1)) OR ((TI=NEIL2 OR AB=NEIL2)) OR ((TI=NEIL3 OR AB=NEIL3)) OR ((TI=c11orf30 OR AB=c11orf30)) OR ((TI=ARID1A1 OR AB=ARID1A1))

((TI=immunotherapy* OR AB=immunotherapy*)) OR ((TI=Atezolizumab OR AB=Atezolizumab)) OR ((TI=Nivolumab OR AB=Nivolumab)) OR ((TI=Durvalumab OR AB=Durvalumab)) OR ((TI=Pembrolizumab OR AB=Pembrolizumab)) OR ((TI=anti-PD1 OR AB=anti-PD1)) OR ((TI=anti-PDL1 OR AB=anti-PDL1)) OR ((TI="anti PD-L1" OR AB="anti PD-L1")) OR ((TI="anti PD-1" OR AB="anti PD-1")) OR ((TI=anti-PD-L1 OR AB=anti-PD-L1)) OR ((TI=anti-PD-1 OR AB=anti-PD-1)) OR ((TI="immune checkpoint inhibitor*" OR AB="immune checkpoint inhibitor*")) OR ((TI="PD-1 blockade*" OR AB="PD-1 blockade*"))

Exclusion

((NSCLC:ti,ab) OR ("lung" NEXT tumor*):ti,ab) OR ("lung" NEXT tumour*):ti,ab) OR ("lung" NEXT carcinoma*):ti,ab) OR ("lung" NEXT adenocarcinoma*):ti,ab)

((pMMR:ti,ab) OR (dMMR:ti,ab) OR (MMR:ti,ab) OR ("Mismatch Repair":ti,ab) OR (MLH1:ti,ab) OR (MLH3:ti,ab) OR (MSH2:ti,ab) OR (MSH6:ti,ab) OR (PMS1:ti,ab) OR (PMS2:ti,ab) OR ("DNA Damage Sensing":ti,ab) OR (ATM:ti,ab) OR (ATR:ti,ab) OR (CHK1:ti,ab) OR (CHK2:ti,ab) OR ("Homologous Recombination":ti,ab) OR (HRD:ti,ab) OR (DDR:ti,ab) OR (BRCA1:ti,ab) OR (BRCA2:ti,ab) OR (RAD21:ti,ab) OR (RAD50:ti,ab) OR (RAD51:ti,ab) OR (RAD51C:ti,ab) OR (RAD51D:ti,ab) OR (RAD52:ti,ab) OR (RAD54B:ti,ab) OR (PALB2:ti,ab) OR (BRIP1:ti,ab) OR (BARD1:ti,ab) OR (BAP1:ti,ab) OR ("Nucleotide Excision Repair":ti,ab) OR (ERCC1:ti,ab) OR (ERCC2:ti,ab) OR (ERCC3:ti,ab) OR (ERCC4:ti,ab) OR (ERCC5:ti,ab) OR (ERCC6:ti,ab) OR ("Base excision Repair":ti,ab) OR (BER:ti,ab) OR (XRCC1:ti,ab) OR (XRCC2:ti,ab) OR (XRCC3:ti,ab) OR (XRCC4:ti,ab) OR (XRCC5:ti,ab) OR (XRCC6:ti,ab) OR ("DNA Polymerase":ti,ab) OR (POLB:ti,ab) OR (POLD1:ti,ab) OR (POLE:ti,ab) OR (POLH:ti,ab) OR (POLQ:ti,ab) OR ("Fanconi Anemia":ti,ab) OR (FANCA:ti,ab) OR (FANCB:ti,ab) OR (FANCC:ti,ab) OR (FANCD2:ti,ab) OR (FANCE:ti,ab) OR (FANCF:ti,ab) OR (FANCG:ti,ab) OR (FANCI:ti,ab) OR (FANCL:ti,ab) OR (FANCM:ti,ab) OR (NEIL1:ti,ab) OR (NEIL2:ti,ab) OR (NEIL3:ti,ab) OR (c11orf30:ti,ab) OR (ARID1A1:ti,ab))

((immunotherapy*:ti,ab) OR (Atezolizumab:ti,ab) OR (Nivolumab:ti,ab) OR (Durvalumab:ti,ab) OR (Pembrolizumab:ti,ab) OR (anti-PD1:ti,ab) OR (anti-PDL1:ti,ab) OR ("anti PD-L1":ti,ab) OR ("anti

PD-1":ti,ab) OR (anti-PD-L1:ti,ab) OR (anti-PD-1:ti,ab) OR ("immune
checkpoint" NEXT inhibitor*):ti,ab) OR (PD-(L) blockade*:ti,ab) OR ("PD-1" NEXT blockade*):ti,ab)