|  |  |  |
| --- | --- | --- |
| **Patient** | **Genetic alterations identified** | **Best response to vemurafenib/panitumumab** |
| 1 |

|  |  |
| --- | --- |
| BRAF | V600E |
| PIK3CD | C991F |
| ALK | V1471L |
| FGFR3 | V390L |
| INPP4B | Q13H |
| RICTOR | D913G |
| TNFAIP3 | S649F |
| TNFAIP3 | S667I |
| RECQL4 | R365Q |
| RET | N834S |
| PIK3C2G | E1400fs |
| RAD51B | R8X |
| TP53 | C238W |
| RNF43 | P385fs |
| JAK3 | H514Q |
| JAK3 | F359L |
| PTPRT | A293T |

 | PR |
| 2 |

|  |  |
| --- | --- |
| BRAF | V600E |
| CTNNB1 | K335I |
| ARID1B | L1919Q |
| TP53 | 196\_202del |
| RNF43 | G659fs |
| DOT1L | R674C |

 | PR |
| 3 |

|  |  |
| --- | --- |
| BRAF | V600E |
| TP53 | C176Y |
| SMAD4 | R361C |
| SPEN | K2205T |
| IL7R | P197L |
| PTPRS | E1525K |

 | SD |
| 4 |

|  |  |
| --- | --- |
| BRAF | V600E |
| TP53 | R306X |
| AKT3 | R270H |
| ATM | V2617I |
| BRIP1 | R658Q |
| CDC71 | K47N |
| DNMT3A | R167W |
| JAK3 | D519E |
| PARP1 | T361N |
| PTEN | R173C |
| PTPRS | R714H |
| RICTOR | W750X |
| SMAD4 | A118V |
| SOX17 | G103C |
| TSHR | T762M |
| FOXL2 | H291R |

 | SD |
| 5 |

|  |  |
| --- | --- |
| BRAF | V600E |
| PIK3CA | E545K |
| TP53 | P250L |
| APC | T1556fs |
| APC | R213fs |
| ATRX | Q2452L |
| FGFR1 | P181S |
| MEF2B | Q18K |
| HIST1H3B | R54fs |

 | SD |