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## **Supplemental material**

### **Genomic alterations associated with rapid progression of brain metastases**

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**DISCLAIMER** The *Journal of Neurosurgery* acknowledges that the following section is published verbatim as submitted by the authors and did not go through either the *Journal's* peer-review or editing process.

### Supplementary Table 1

List containing all genomic alterations in genes RB1, CTNNB1, PIK3CA, NF1, APC and ERBB2

#### RB1 Mutations

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RB1 p. W681\* (n=1)  
RB1 p.F226\* (n=1)  
RB1 Deep Deletion (n=1)  
RB1 p.195\* (n=1)  
RB1 Exon 14-17, homozygous deletion (n=1)  
RB1 c.1695+5G>A (n=1)  
RB1 p.H483fs, (n=1)  
RB1 p.S443\* (n=1)

#### CTNNB1 Mutations

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CTNNB1 p.G34V (n=1)  
CTNNB1 p.S45, deletion (n=1)  
CTNNB1 p.S37F (n=1)  
CTNNB1 p.S37C, (n=1)  
CTNNB1 p.S33P, (n=1)  
CTNNB1 p.G34V, (n=1)  
CTNNB1 p.S33F, (n=1)  
CTNNB1 Exon 3 Deletion (n=1)  
CTNNB1 p.S45P (n=1)

#### PIK3CA Mutations

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PIK3CA p.G1007R, (n=1)  
PIK3CA p.E545A, (n=1)  
PIK3CA p.E542K + p.H1047L, (n=1)  
PIK3CA p.K111N, (n=1)  
PIK3CA p.E542K, (n=1)  
PIK3CA p.Q546K + c.1300-2A>T, (n=1)  
PIK3CA p.R108H + p.E545K, (n=1)  
PIK3CA p.Q546R, (n=1)

#### NF1 Mutations

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NF1 p.R1204W (n=1)  
NF1 p.T1950fs (n=1)  
NF1 p.Q554\* (n=1)  
NF1 p.T1589fs (n=1)  
NF1 p.E778\* (n=1)  
NF1 p.731-1G>T (n=1)  
NF1 p.Q1447\* (n=1)  
NF1 p. K2595\* (n=1)  
NF1 p.Q853\* (n=1)

**APC Mutations**

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APC p.L1969fs, (n=1)

APC p.L1488fs + APC p.K993fs, (n=1)

APC p.R876\* + APC p.N1455fs, (n=1)

APC truncating rearrangement

APC p.T1556fs, (n=1)

APC c.1409-2A>G + APC p.Y935\*, (n=1)

APC p.S537fs, (n=1)

APC p.S1415fs, (n=1)

**ERBB2 Mutations**

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ERBB2 Amplification, (n=6)