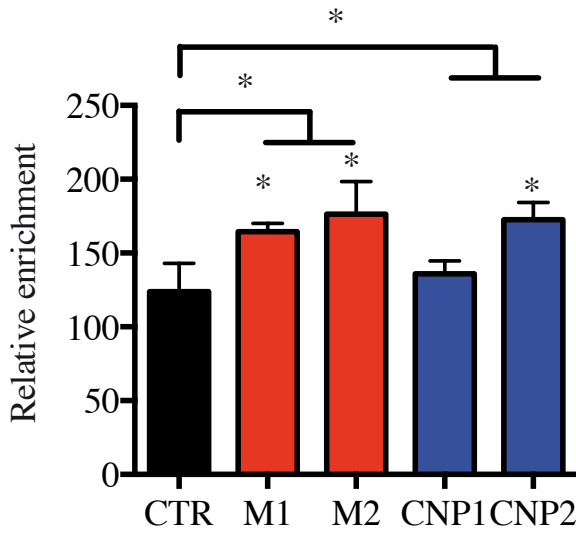


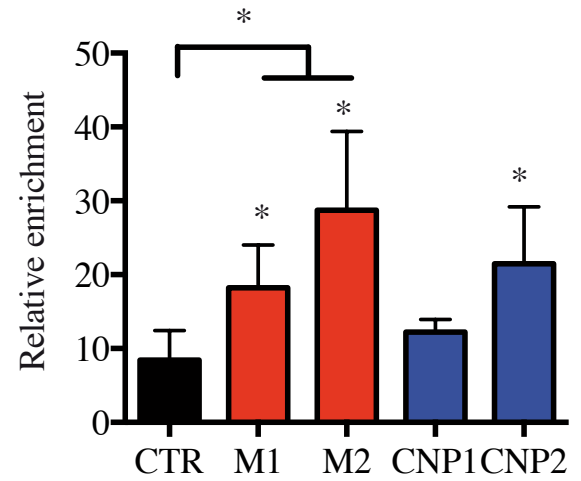
	M1	M2	CNP1	CNP2
TP53	present	present	present	present
EGFR	normal	normal	amplified	normal
PDGFR	normal	normal	amplified	normal
PTEN	present	present	present	present
INK4a/ARF	deleted	deleted	deleted	deleted
IDH1	wild-type	wild-type	wild-type	wild-type
MGMT	absent	absent	absent	absent

Supplementary Table 1 Genomic alterations of primary cultures  
Major genomic alterations reported in GBM analyzed using RNA sequencing analysis are presented for each primary cultures.

## G6P-F6P

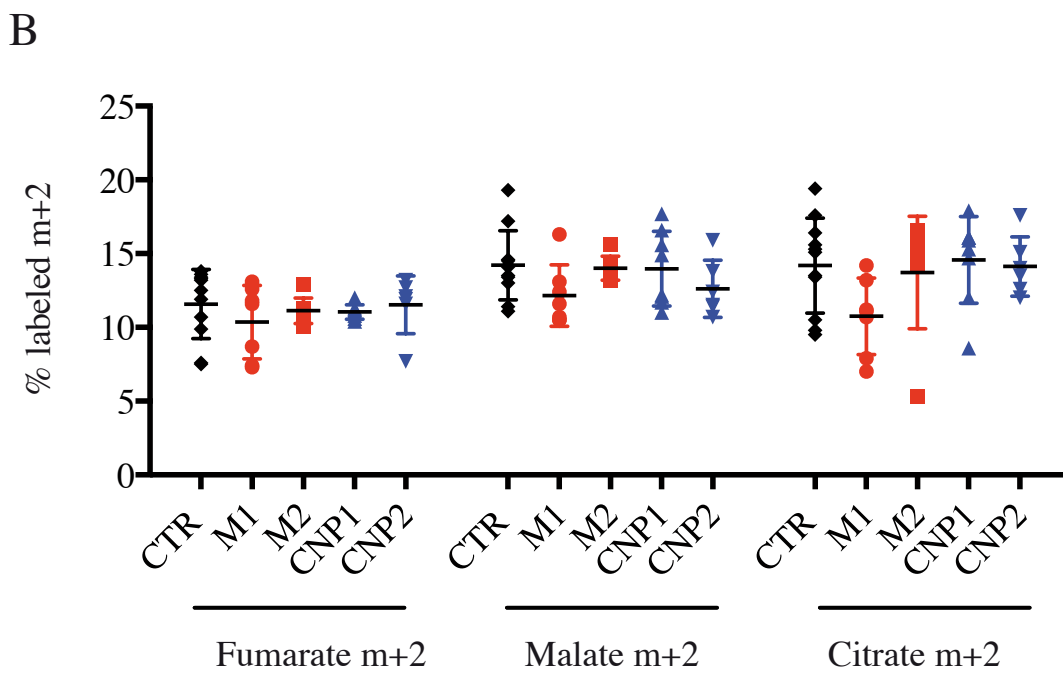
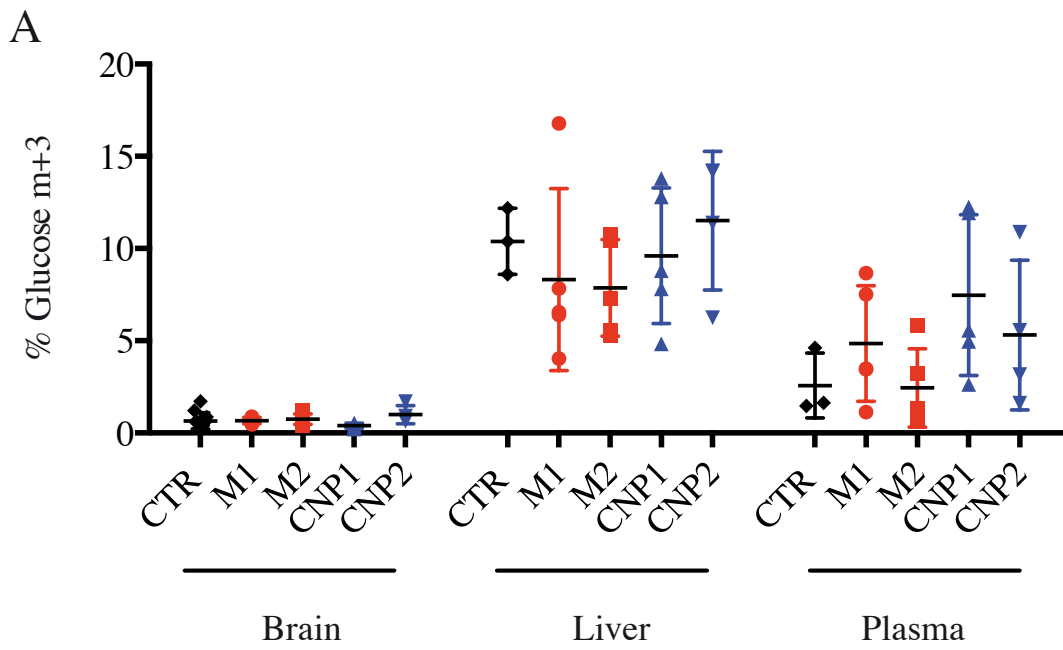


## Ribose 5P



Supplementary Figure S1. Metabolic profile of Glucose6P-Fructose6P and Ribose5P in human orthotopic tumors (HOT) and control brain.

Abundance of Glucose6P-Fructose6P (G6P-F6P) from 3 independent samples for CTR brain and each tumor subtype was analyzed by LCMS. Results are presented as mean $\pm$ sem. Results are compared to CTR brain and between groups using multiple t-test analysis (\*  $p < 0.05$ ).



Supplementary Figure S2 Mass spectrometry analysis of labeled  $^{13}\text{C}$  Glucose in CTR mice and tumor-bearing mice.

A. Labeled  $^{13}\text{C}$ -Glucose (m+3) in brain, liver and plasma. B. Labeled  $^{13}\text{C}$ -TCA metabolites from  $^{13}\text{C}$ -Glucose (m+3) in the brain of CTR mice, mesenchymal-tumor bearing mice and CNP-tumor bearing mice.