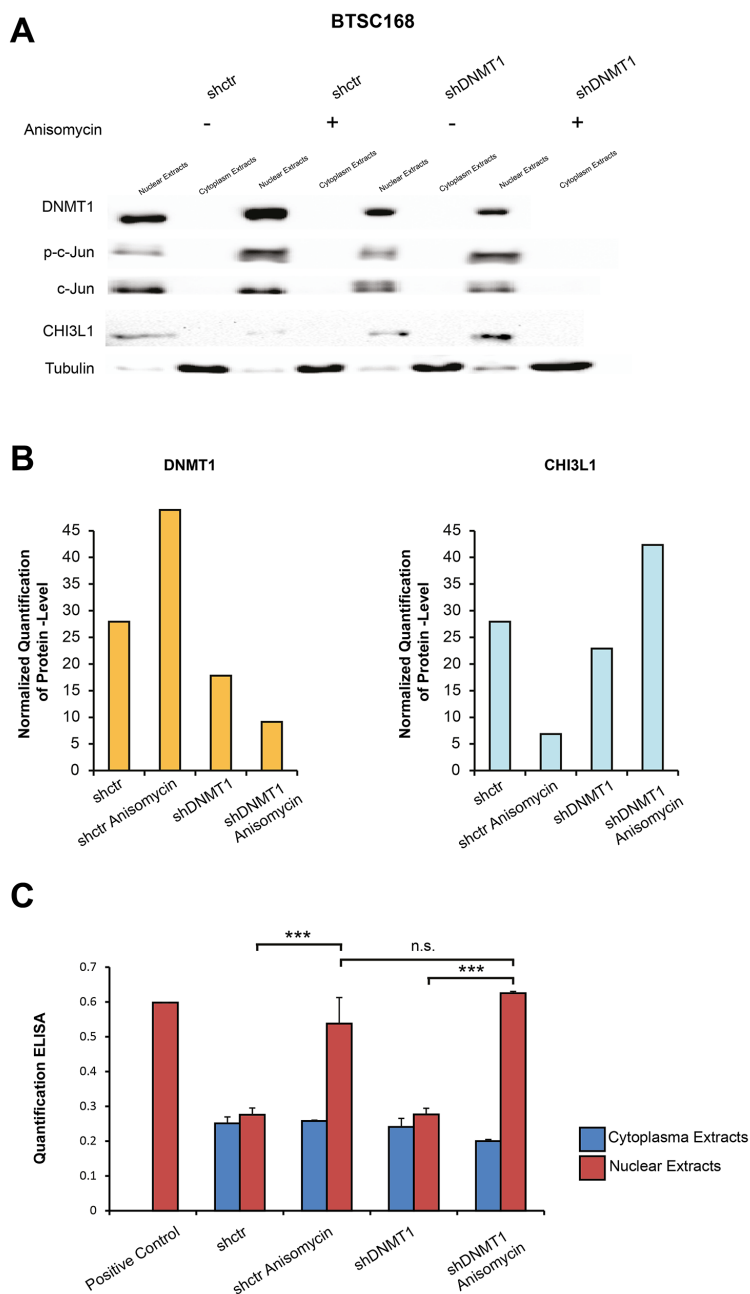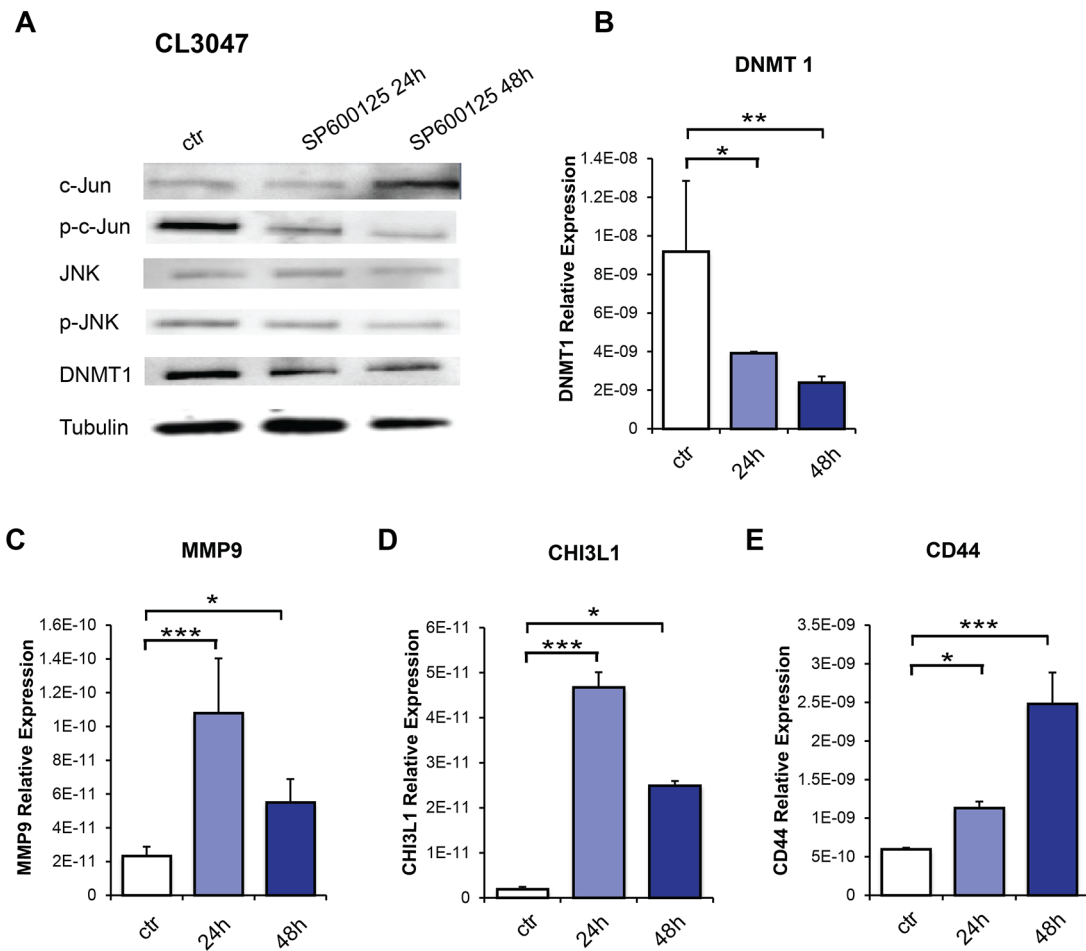# c-Jun-N-terminal phosphorylation regulates DNMT1 expression and genome wide methylation in gliomas

SUPPLEMENTARY FIGURES AND TABLE

Supplementary Figure 1: NF-κB activation by p-Jun does not require DNMT1. A-B. Immunoblotting analysis of BTSC168 transduced with shctr or shDNMT1 lentivirus, and treated with Anisomycin. The quantification of DNMT1 and CHI3L1 was normalized based on the tubulin protein-level (B). **C.** Analysis of NF-κB nuclear binding to a κB-responsive sequence, in nuclear and cytoplasm extracts. Significance level was defined as *p < 0.05, ***p < 0.005. Error bars represent mean ± standard error of the mean (SEM) of at least three independent experiments.

Supplementary Figure 2: Characterization of CL3047 cells. A. Immunoblot analysis of c-Jun, p-c-Jun, JNK, p-JNK and DNMT1 expression in the primary proneural cell line CL3047. **B.** q-RT PCR showing DNMT1 expression in CL3047 upon treatment with JNK inhibitor SP600125. C-D. q-RT PCR showing expression of the three mesenchymal genes (MMP9, CHI3L1 and CD44) in CL3021, upon treatment with JNK inhibitor SP600125.

Supplementary Table 1: Table of Freiburg glioma patients

Patient	DNMT1	Grade	Tumor	PFS	OS	Age
BT178	0.10223082	IV	GBM	2.9	118.3	75.5
BT66	0.10298547	IV	GBM	12.9	423.2	72.5
BT175	0.12928351	IV	GBM	1.9	153.4	73.7
BT163	0.1757574	IV	GBM	4.2	330.9	63.7
BT25	0.18325079	IV	GBM	5.6	202.6	72.4
BT146	0.28164113	IV	GBM	0.5	47.1	69.2
BT143	0.32415333	IV	GBM	6.6	231.6	73.1
BT12	0.33350049	IV	GBM	7.9	271.7	68.2
BT10	0.45983831	IV	GBM	9.4	316.9	73.8
BT205	0.48212423	IV	GBM	1.2	68.2	63.5
BT48	0.50130003	IV	GBM	0.7	52.1	79.3
BT5	0.50496325	IV	GBM	3.3	136.4	63.2
BT197	0.58272251	IV	GBM	5.9	210.6	63.9
BT108	0.9124834	IV	GBM	11.8	390.1	70.9
BT206	0.99113128	IV	GBM	3.0	687.9	54.2
BT101	1.14044974	II	O	93.9	6835.7	24.0
BT280	1.4295224	II	OA	68.0	1187.2	22.7
BT187	1.54053316	II	A	81.3	2925.0	38.7
BT69	1.81343056	III	AOA	3.5	137.4	76.0
BT32	1.84820793	III	AOA	9.7	6835.7	33.7
BT18	1.86937354	III	AOA	17.4	1187.2	23.2
BT55	2.37788373	III	AOA	4.3	351.0	59.0
BT126	2.55342919	IV	GBM	10.9	362.0	77.5
BT155	3.32685118	III	AOA	27.6	2101.7	22.0
BT131	3.32812272	III	AOA	53.3	2925.0	30.8
BT141	4.45244737	II	O	85.8	3643.0	37.4
BT22	5.50056448	III	AOA	16.8	843.3	56.4
BT55	7.22385196	III	AOA	4.3	351.0	59.0
BT116	7.58670253	III	AOA	3.9	150.4	75.6
BT136	7.6550655	IV	GBM	1.4	72.2	62.5
BT77	10.2550999	III	AOA	58.4	2020.5	36.5
BT34	12.0645712	III	AOA	68.9	2685.3	56.1

Table containing Freiburg patients information including DNMT1 expression data by qRT-PCR (S18-normalized), overall survival (OS in days), progression-free survival (PFS in days) and age in years.