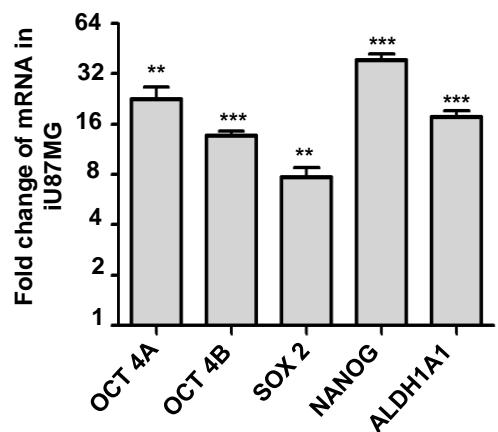
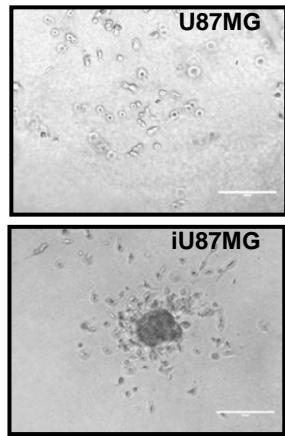


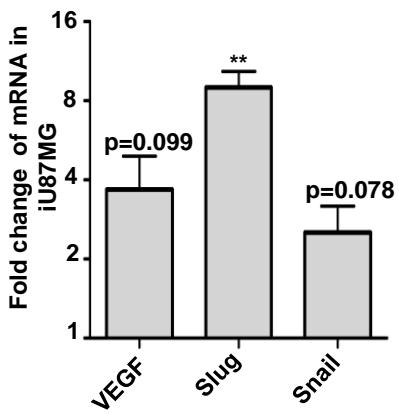
A



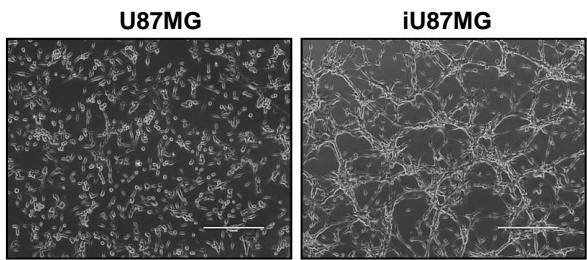
B



C



D



E

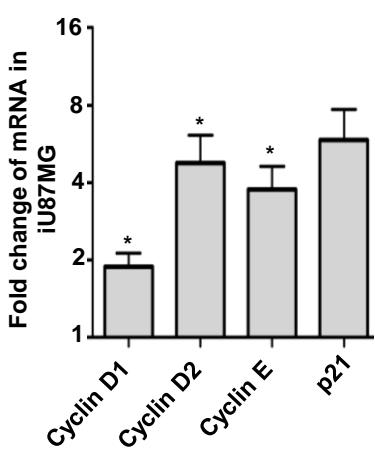


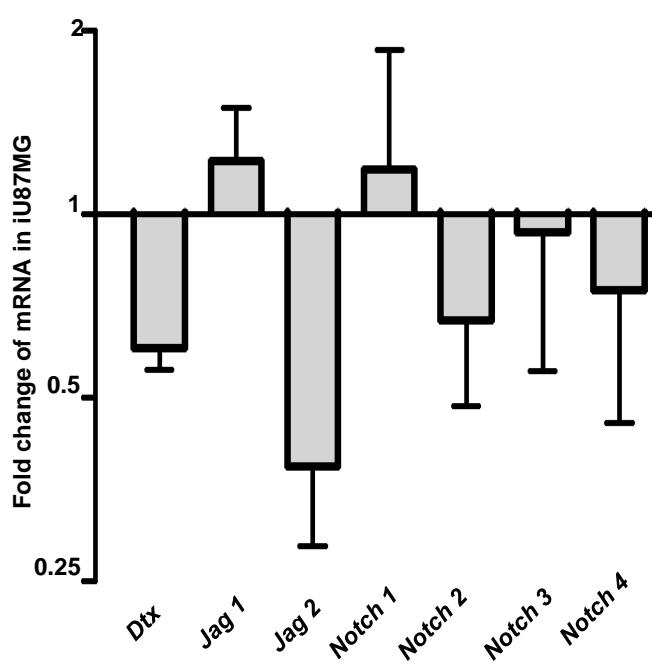
Figure S1

Figure S1. Phenotypic characteristics of iU87MG cells (related to Figure 2)

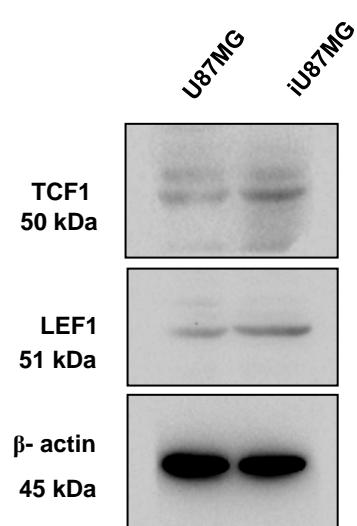
- A. Expression of pluripotent stem cell markers and ALDH1A at mRNA level in iU87MG compared to U87MG as assessed by real-time qPCR. Values are normalized against 18S rRNA expression.
- B. Representative image of a 3D-sphere formed by iU87MG in a matrigel-coated plate after 72 hrs.
- C. Fold changes in the mRNA level of Slug, Snail and VEGF in iU87MG over U87MG as assessed by real-time qPCR. Values are normalized against 18S rRNA.
- D. iU87MG showed higher connective tube formation after 72hrs on top of a matrigel coated plate.
- E. Accumulation of Cyclin D1, Cyclin D2, CyclinE and p21 at mRNA level in iU87MG over U87MG as assessed by real-time qPCR. Values are normalized against 18S rRNA expression.

Figure S2

A



B



C

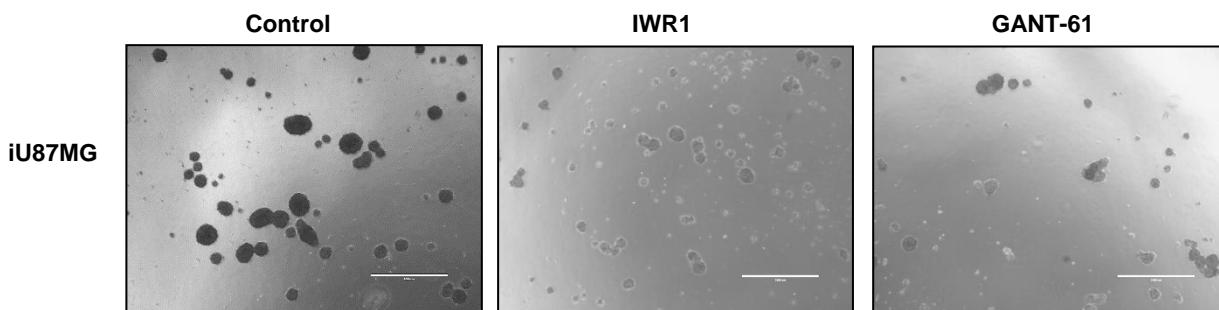


Figure S2. Involvement of stem cells regulatory pathways in NS-induced cells (related to Figure 4)

A. mRNA expression of Notch pathway genes showed down regulation in iU87MG compared to U87MG.

B. Western blots of target genes of β -catenin and Gli1 showed enhancement upon nutritional stress.

C. Phase contrast images showed neurospheres formation ability of pre-treated iU87MG with Wnt/ β -catenin and Sonic Hedgehog pathway inhibitors (IWR1 and GANT61 respectively).

Supplementary Table S1: List of primers details

NAME	FORWARD PRIMER	REVERSE PRIMER
OCT 4A	GAGGAGTCCCAGGACATCAA	ACACTCGGACCACATCCTTC
OCT 4B	GAAGTTAGGTGGCAGCTTG	CTCCAGGTTGCCTCTCACTC
SOX 2	AGAACCCCAAGATGCACAAC	ATGTAGGTCTGCGAGCTGGT
NANOG	ACCAGACCCAGAACATCCAG	CTCGTCGATTAGGCTCCAAC
ALDH 1A	TGGAGTCAATGAATGGTGGA	CAAGTCGGCATCAGCTAACAA
CYCLIN D1	CCTAAGTCGGTCCGATGA	ACGTCAGCCTCCACACTCTT
CYCLIN D2	ATTGGCATGTCTGGTTCACA	GCCAGATACCAGAACGGAAG
CYCLIN E	AGCGGTAGAACAGCAGAGCAG	TTTGATGCCATCCACAGAAA
P21	ATGAAATTCACCCCCTTCC	CCCTAGGTCGTGCTCACTTC
VEGFA	AGGCCAGCACATAGGAGAGA	TTTCTTGCCTTCGTTTTT
SNAIL	GAGGACAGTGGAAAGGCTC	TGGCTTCGGATGTGCATCTT
SLUG	CATCTTGGGCGAGTGAGT	GGCCAGCCCAGAAAAAGTTG
WNT 2	GTGGATGCAAAGGAAAGGAA	AGCCAGCATGTCCTGAGAGT
FRIZZLED 7	GTACTTAAGGAGGGAGGAGA	GTAGGTGAGAACGGTAAAGA
DISHEVELED 2	TGAGAGCTACCTAGTCAACC	GGGTATTGGTAGGAGAAAGT
DISHEVELED 3	GAGACCAAGATCATCTACCA	CGTCCATAGACTGAAGAAG
AXIN 1	AGAGCCATCTACCGAAAGTA	ACTTAAGGAAGGAGGGATAG
AXIN 2	CATAGGTTCTGGCTATGTCT	TCTCTGGAGCTGTTCTTAC
LRP 6	TTGTGACAGTGACTATGCTC	TCTCTGTGTATGGAGAAGGT
β- CATEIN	TCCTTCTCTGAGTGGTAAAG	CATCTAATGTCTCAGGAAAC
GLI1	GTGCAAGTCAAGCCAGAACAA	ATAGGGCCTGACTGGAGAT
GLI2	TTTATGGGCATCCTCTCTGG	AAGGCTGGAAAGCACTGTGT
PTCH1	TCCCAGCGCTTCTACATCT	CTTGTCGTGGACCCATTCT
SHH	TACTCGCAGCTGCTCTACCA	TGTCTTTGCTTGCCTTG
SMO	CAACCTGTTGCCATGTTG	TTGGCTCATCGTCACTCTG
JAGGED 1	GAGATGACTCTTGGACAC	TGCACTTATCACAGTACAGG
JAGGED 2	CTGCGACGAGAACTACTACA	CTTGTAAACACACAGCTTCC
NOTCH 1	AGTACTGTACCGAGGATGTG	GCACAGTCATCAATGTTCTC
NOTCH 2	ACTGCCAGTACTCAACATCT	GGTACAGGTACTCCATTG
NOTCH 3	AGAGCTGCAGTCAGAATATC	GTGTCACAGATAGCATCCTC
NOTCH 4	TAGTGAGGAGATGACAGCTT	ACAGTAGTCAGTGCTGGTTT
C-MYC	GTCAGAGTCTGGATCACCTT	ACTCTGACACTGTCCAACCTT
MMP-2	GGACACACTAAAGAAGATGC	CCTGTATGTGATCTGGTTCT
MMP-7	CTTGCCCTACCTATAACTG	ATGATACGATCCTGTAGGTG
α-CATEIN	GCTGTCTCAGAGAACATCACAT	TCCATCTCTGAGGTGACTAC
TCF4	AGAGCTGAGTGATTACTGG	CCTGAGCTACTTCTGTCTTC
LEF1	AGCTCCTGATATCCCTACTT	GTTACAATAGCTGGATGAGG

Figure S2
For Reviewer only

Full scanned images of blots of Nestin Figure 2A

