



CORRECTION

Correction: CSN6–TRIM21 axis instigates cancer stemness during tumorigenesis

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as ‘Csn6 low and Aldh1a1 low ($n = 59$)’, and ‘Csn6 high and Aldh1a1 high ($n = 120$)’ as ‘Csn6 low and Aldh1a1 high ($n = 120$)’. This correction has been made to the caption and a corrected version of the Figure is below.

The original version of this article contained an error in Fig. 1f. The caption incorrectly listed ‘Csn6 high and Aldh1a1 low ($n = 59$)’

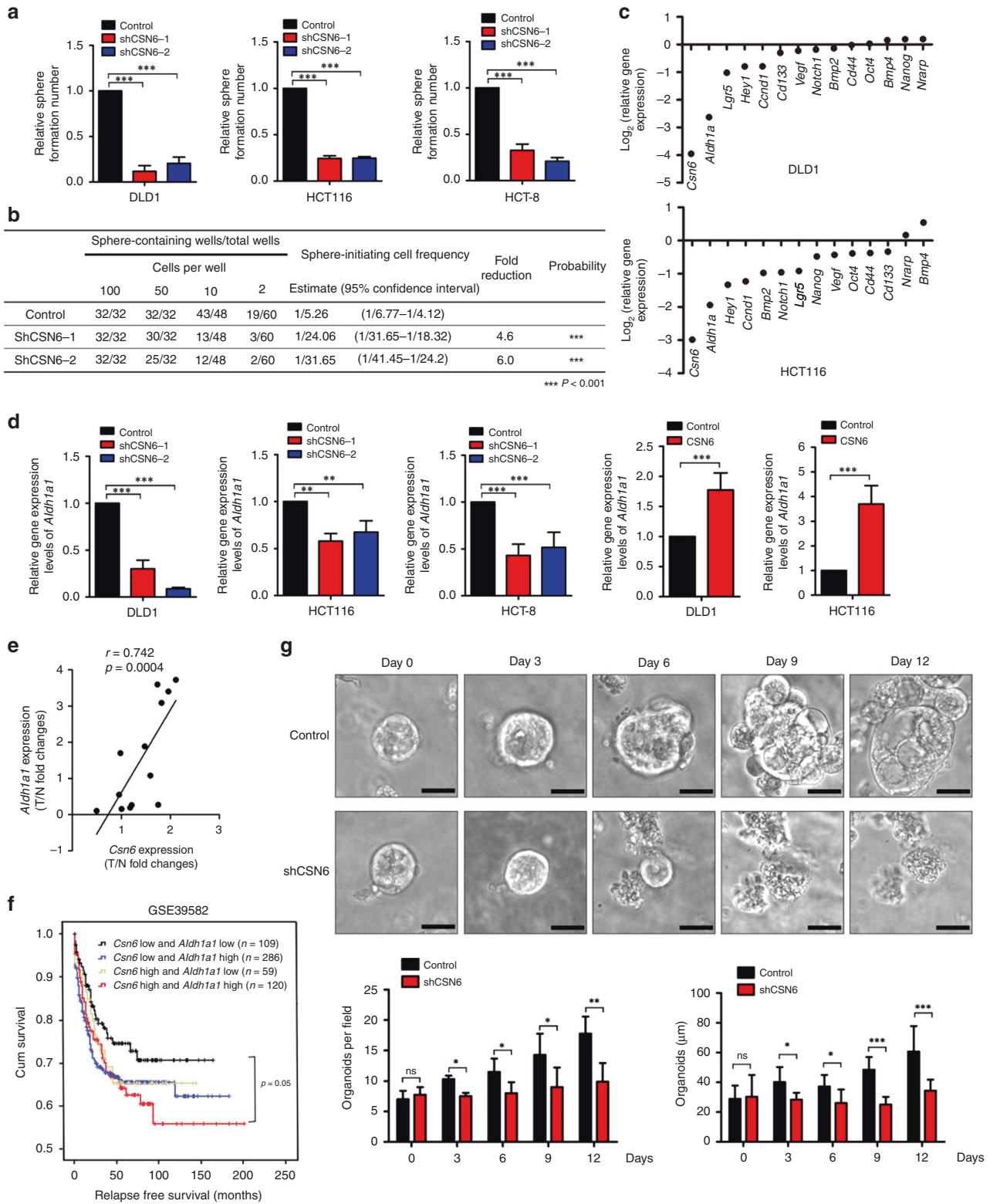


Fig. 1 CSN6 is required for sphere formation and initiates stemness through ALDH1A1. **a** Sphere-formation assay of DLD-1, HCT116 and HCT-8 cells carrying scrambled or CSN6-specific shRNA. **b** DLD-1 cells carrying scrambled or CSN6-specific shRNA were dissociated into a single-cell suspension, seeded in 96-well plates with an ultra-low attachment surface at a density of 2, 10, 50 or 100 cells per well and cultured for 12 days. The frequency of sphere-initiating cells was estimated using the ELDA software. **c** Quantitative RT-PCR analysis was performed to measure the mRNA levels of stem cell markers (*Aldh1a1*, *Lgr5*, *Cd133* and *Cd44*), embryonic stem cell components (*Nanog* and *Oct4*), WNT pathway components (*Vegf* and *Ccnd1*), Notch pathway components (*Notch1*, *Hey1* and *Nrarp*) and BMP family genes (*Bmp2* and *Bmp4*) in DLD-1 cells and HCT116 cells carrying scrambled or CSN6-specific shRNA. **d** Quantitative RT-PCR analysis was performed to measure the mRNA levels of *Aldh1a1* in DLD-1, HCT116 and HCT-8 cells with CSN6 knockdown or CSN6 overexpression. **e** Quantitative RT-PCR analysis was performed to measure the mRNA levels of colorectal cancer and adjacent colorectal tissues. The levels of *Csn6* were positively correlated with the expression of *Aldh1a1* at mRNA levels in 13 pairs of human colorectal carcinomas (T) with matched normal tissues (N). **f** Kaplan–Meier survival curves of relapse-free survival time based on *Csn6* and *Aldh1a1* expression in CRC tissues. * $P < 0.05$, ** $P < 0.01$ and *** $P < 0.001$. **g** Knockdown of CSN6 affected patient-derived tumour organoid (tumour PDO) growth. The morphology of the organoids is shown. The number of organoids growing to a size of $>25 \mu\text{m}$ was calculated. Scale bars, $25 \mu\text{m}$.