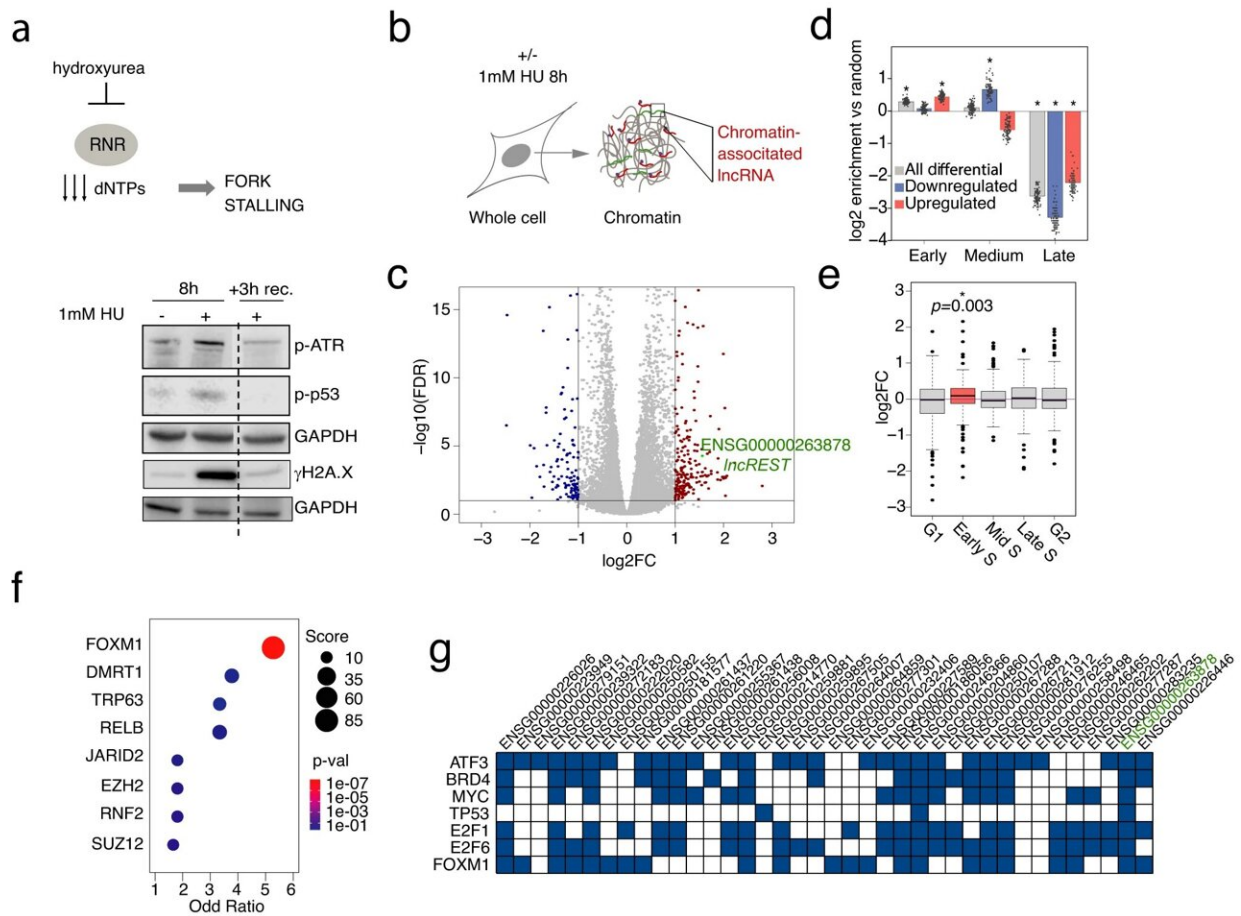


Researchers discover an RNA molecule that could be used as a therapeutic target against cancer cells

March 4 2024



Replication stress induces lncRNAs associated to replicating chromatin. **a** (Top) Mechanism of action of hydroxyurea (HU) RNR: ribonucleotide reductase. (Bottom) Immunoblot analysis HCT116 cells treated with HU 1 mM for 8 h followed by 3 h recovery shows the reversible effect of HU on replication stress

markers p-ATR, p-p53 and γ H2A.X. Experiments were performed twice with similar results. Source data are provided as a Source Data file. **b** Schematic of the fractionation protocol applied to isolate chromatin-associated RNAs. **c** Volcano plot showing the $-\log_{10}(\text{adjusted p-value})$ and the $\log_2(\text{fold-change})$ from the RNA-seq differential expression analysis, comparing the HU-treated vs untreated chromatin fractions. Transcripts with $\pm 1\log\text{FC}$ (FDR

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