

Figure S1

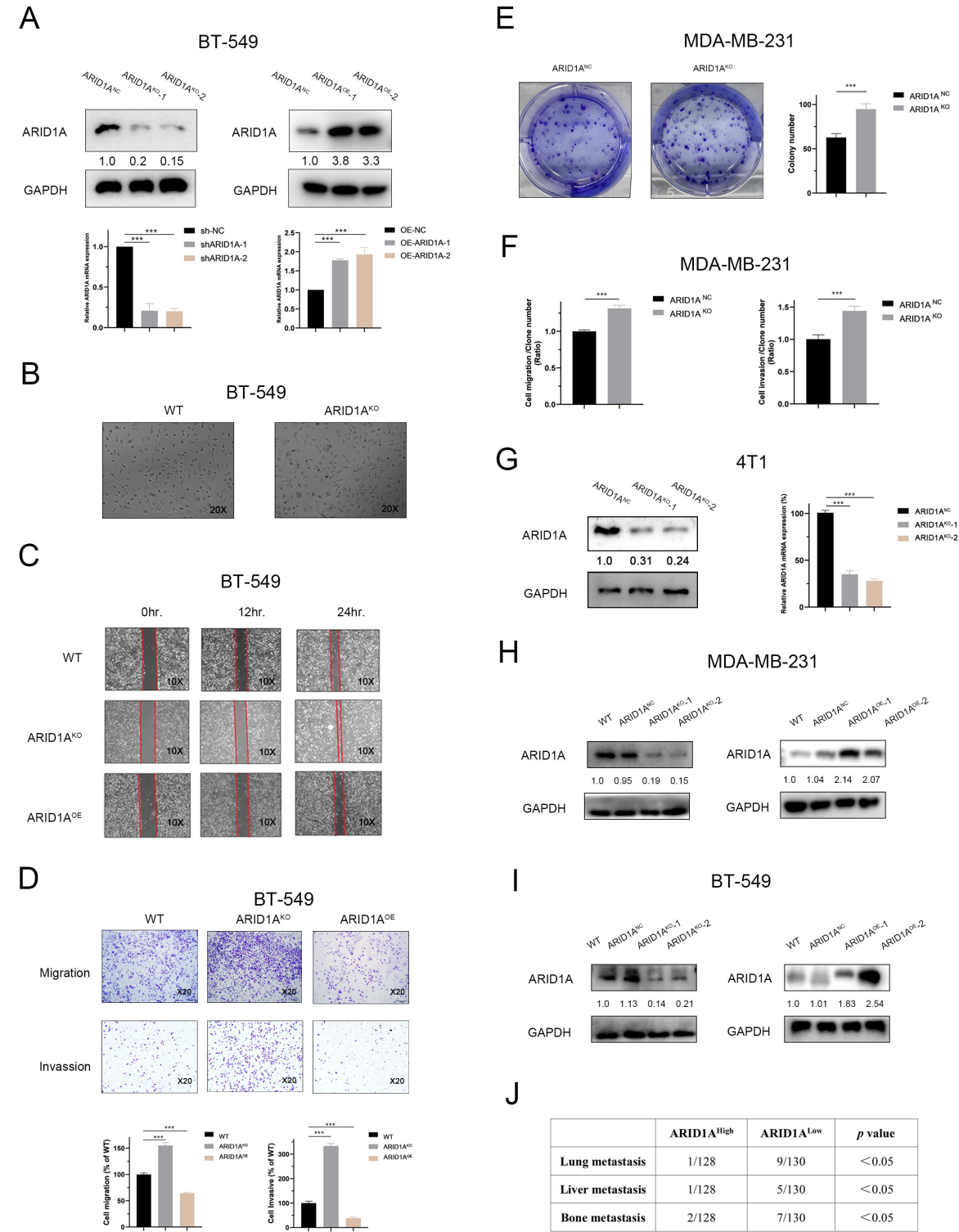


Figure S1: Inhibition of ARID1A promotes migration and invasion in TNBC cells. **(A)** BT-549 cells were silenced by CRISPR/Cas9-mediated knockdown and overexpressed by a plasmid. ARID1A expression levels were determined by Western blotting and qRT-PCR. **(B)** Cell morphology was observed under an optical microscope in BT-549 cells of each group. **(C-D)** Migration and invasion of BT-549 cells from each group were detected by wound healing assay **(C)** and transwell

migration and invasion assay **(D)**. **(E)** Cloning formation experiment in ARID1A^{NC} and ARID1A^{KO} cells. **(F)** Cell invasion and metastasis rate after standardised clonal growth. **(G)** 4T1 cells were silenced by CRISPR/Cas9-mediated knockdown. ARID1A expression levels were determined by Western blotting and qRT-PCR. **(H)** Western blot assay of ARID1A expression in MDA-MB-231 cells in the wild type, ARID1A^{NC}, ARID1A^{KO}, or ARID1A^{OE} groups. **(I)** Western blot assay of ARID1A expression in BT-549 cells in the wild type, ARID1A^{NC}, ARID1A^{KO}, or ARID1A^{OE} groups. **(J)** Statistics and analysis of lung, liver, and bone metastasis in 258 TNBC patients. Error bars represent the standard deviation among replicates. Data are presented as the mean \pm SEM (n = 3), and statistical significance was determined by *** $p < 0.05$.

Figure S2

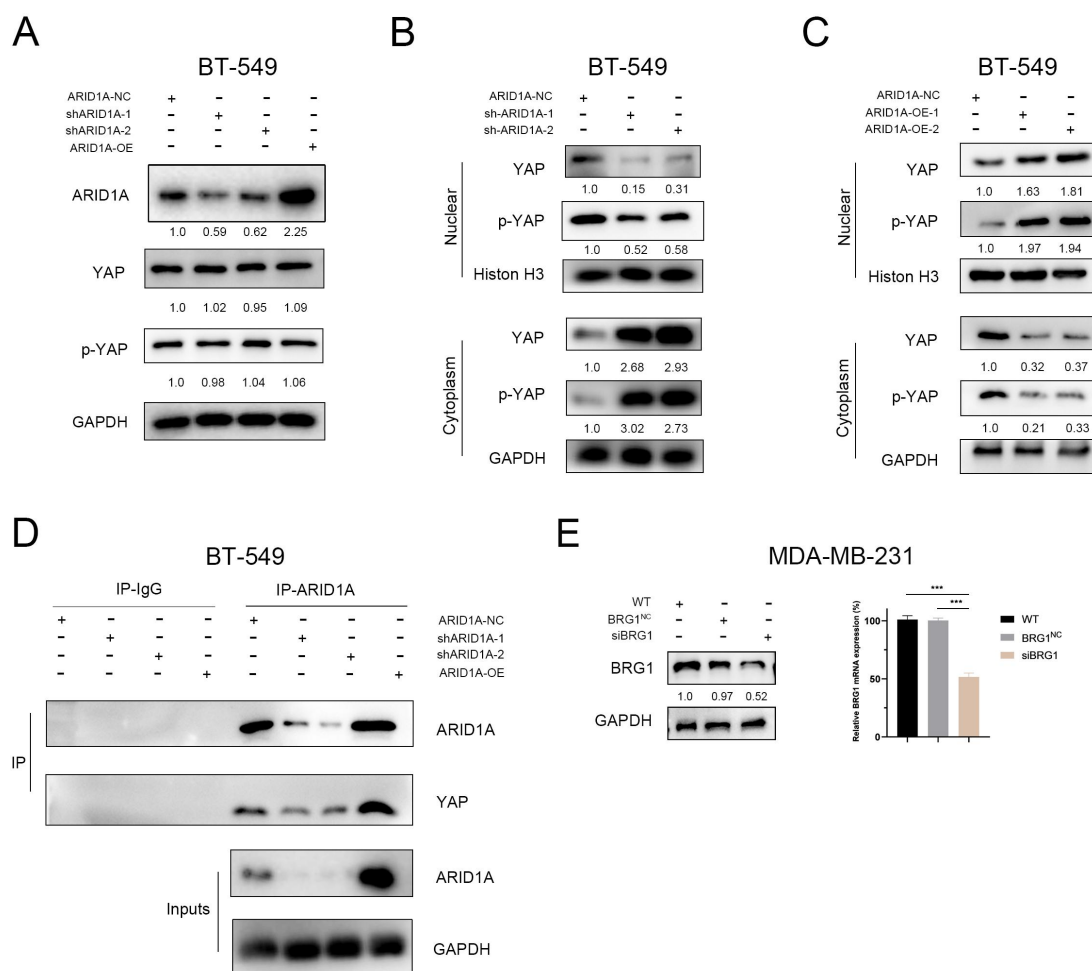


Figure S2: ARID1A competitively binds YAP to form an ARID1A/YAP complex. **(A)** Western blot assay of YAP expression in each group of BT-549 cells. **(B)** Western blot assay of cytoplasmic and nuclear YAP and p-YAP expression in MDA-MB-231 cells between ARID1A^{NC} and ARID1A^{KO} groups. **(C)** Western blot assay of cytoplasmic and nuclear YAP and p-YAP expression in MDA-MB-231 cells between ARID1A^{NC} and ARID1A^{OE} groups. Western blot assay of cytoplasmic and nuclear YAP expression in each group of BT-549 cells. **(D)** ARID1A and YAP interaction was detected in BT-549 cells using anti-ARID1A and anti-YAP antibodies for Co-IP and Western blot assays. **(E)** MDA-MB-231 cells were knocked down by siBRG1. BRG1 expression levels were determined by Western blotting and qRT-PCR. Error bars represent the standard deviation among replicates. Data are presented as the mean \pm SEM (n = 3).

Figure S3

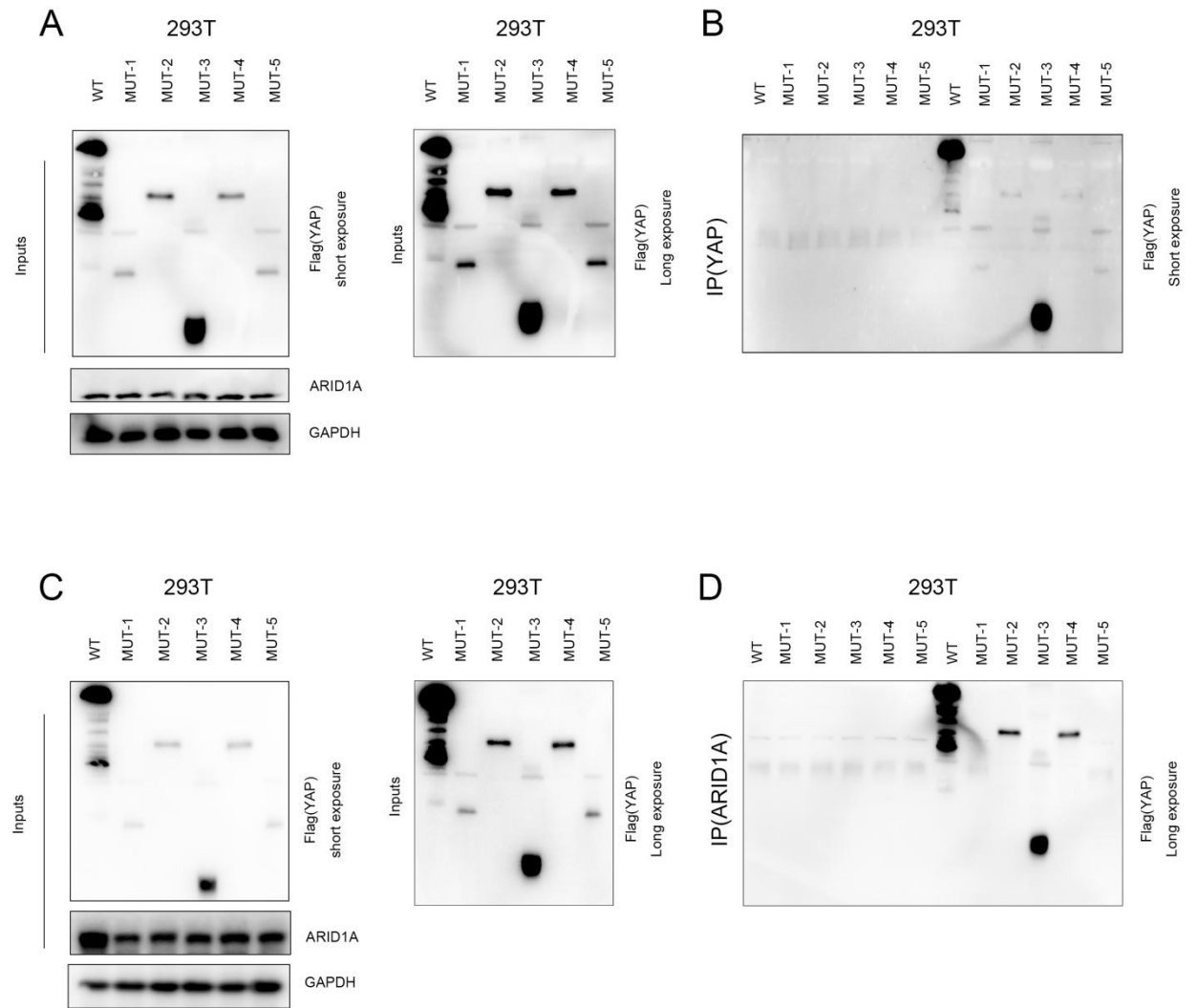


Figure S3: ARID1A binds with YAP via the WW domain. **(A-B)** HEK293T cells were transfected with the indicated plasmids. Western blot (Input) and Co-IP (IP-YAP) assays were performed to assess the interaction between ARID1A and truncated mutations of YAP. **(C-D)** HEK293T cells were transfected with the indicated plasmids. Western blot (Input) and Co-IP (IP-ARID1A) assays were performed to assess the interaction between ARID1A and truncated mutations of YAP. Error bars represent the standard deviation among replicates. Data are presented as the mean \pm SEM (n = 3).