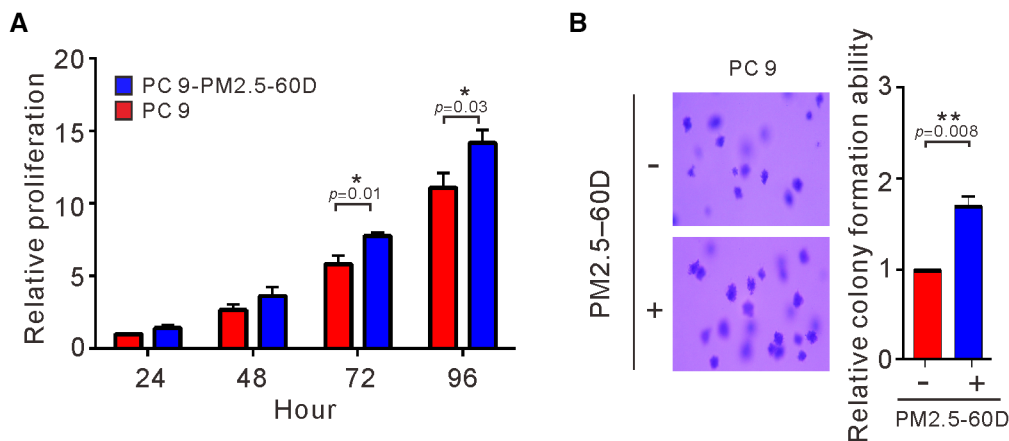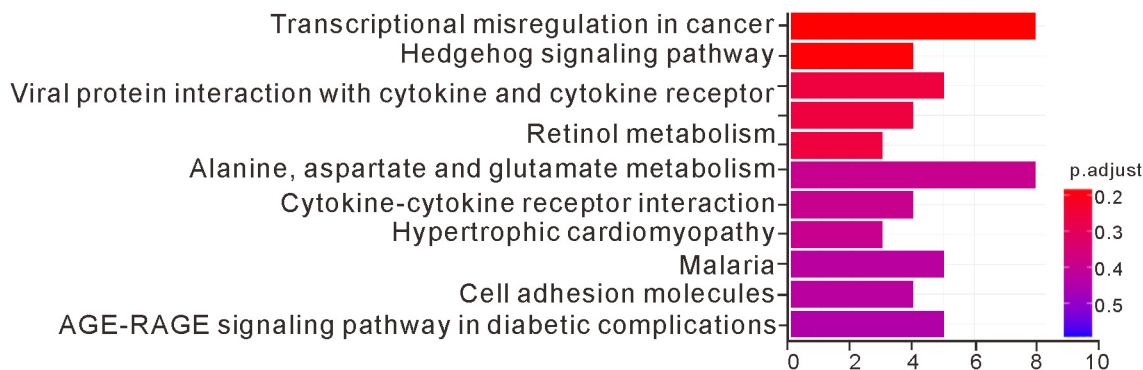# Expanded View Figures

A

B

Figure EV1. Effects of long-term exposure to PM2.5 on cell proliferation and anchorage-independent growth of PC9 lung cancer cells.

A, B PC9 cells were treated with PM2.5 at 50 μg/ml for 60 days. The proliferation of treated cells was assessed by Trypan blue assay (A). The anchorage-independent growth was assessed by a soft agar colony formation assay (B). The data shown are the means ± SDs from three independent experiments. *$P < 0.05$ and **$P < 0.01$, compared with untreated cells. (A) *P*-values were determined by two-sample *t*-test. (B) *P*-values were determined by one-sample *t*-test.
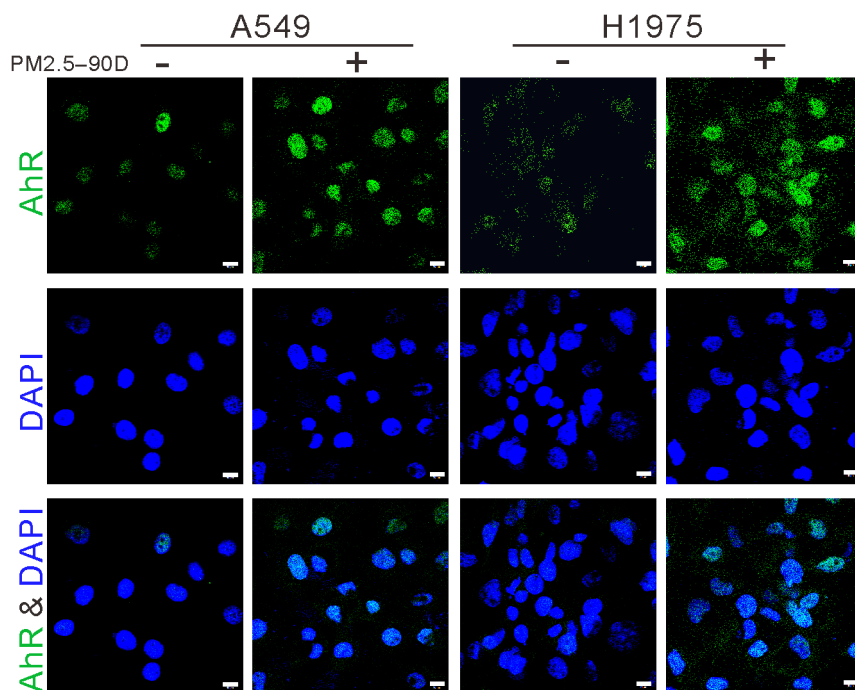
Source data are available online for this figure.

Figure EV2. The top 10 enriched biological processes in long-term exposure to PM2.5.

H1975 cells were exposed to 50 μg/ml PM2.5 for 90 days, and total RNA was subjected to whole-transcriptome analysis as described in the Materials and Methods. Functional classification of the differentially expressed genes in PM2.5-treated H1975 cells, as assessed using ingenuity pathway analysis.
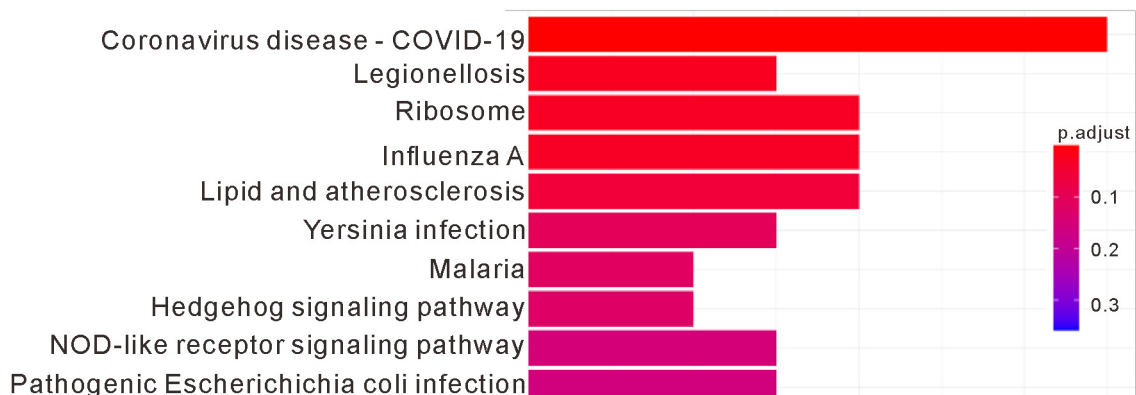
Source data are available online for this figure.

Figure EV3. Immunofluorescence staining of AhR.

The subcellular distribution of AhR was assessed by immunofluorescence staining in H1975 and A549 cells treated with 50 µg/ml PM2.5 for 90 days. DAPI was used as a nuclear stain. Scale bar: 10 µm.
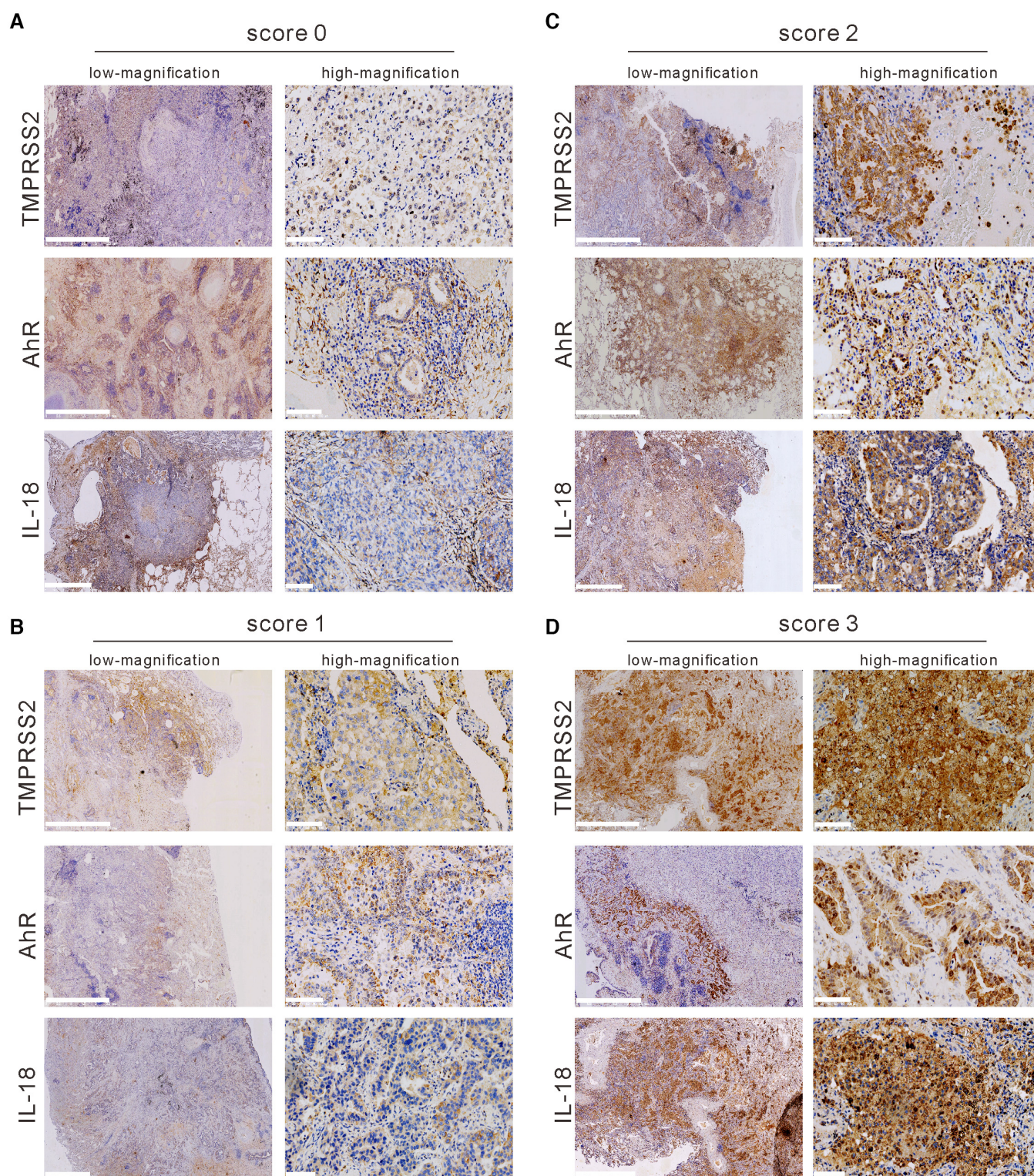
Source data are available online for this figure.

Figure EV4. The top 10 enriched biological processes in TMPRSS2 overexpression.

H1299 cells were transfected with TMPRSS2-HA or the empty vector (Vector). After 48 h, the transfected cells were subjected to whole-transcriptome analysis. Functional classification of the differentially expressed genes in TMPRSS2-overexpressing H1299 cells, as assessed using ingenuity pathway analysis.

Source data are available online for this figure.

Figure EV5. Representative IHC staining images showing immunoreactivity.

A–D   (A) Score 0, (B) score 1, (C) score 2, and (D) score 3 of TMPRSS2, IL18, and AhR in lung cancer tissue. Scale bars, 2.5 mm (low magnification) and 100 µm (high magnification).

Source data are available online for this figure.