Supplemenatry methods

GeneChip analysis

Total RNA was isolated from control RNAi or JARID1A knockdown cells using Trizol reagent (Invitrogen, Carlsbad, CA). The GeneChip analysis was done as described previously (1) using the human GeneChip MC4-HG-U133-Plus-2 array.

Images of A549 cells and Beas-2B cells grown in culture under normoxia

The images of A549 and Beas-2B cells were taken with an inverted microscope (CKX41; Olympus) equipped with the achromatic objectives (4×) and the digital camera DP12-2 (Olympus) at room temperature.

Supplemenatry Figure legends and Table legends

Supplementary Figure 1. Real-time RT-PCR analysis of the relative mRNA expression level of JARID1A, JARID1B, JARID1C and JARID1D in A549 cells.

Supplementary Figure 2. Morphology of sub-confluent A549 and Beas-2B cells. The pictures were taken using an inverted microscope (CKX41; Olympus) at 4× magnification.

Supplementary Table 1. List of the expression levels (raw data) of JARID1A, JARID1B, JARID1C and JARID1D in the GeneChip in A549 cells.

Supplementary Table 2. List of genes up-regulated > 2 fold by JARID1A knockdown in Beas-2B cells**.**

Supplementary Table 3. List of genes down-regulated > 2 fold by JARID1A knockdown in Beas-2B cells.

Supplementary Table 4. Pathway ananlysis of differential regulated genes in JARID1A knockdown Beas-2B cells.

Reference

1. Salnikow K, Davidson T, Zhang Q, Chen LC, Su W, Costa M. The involvement of hypoxia-inducible transcription factor-1-dependent pathway in nickel carcinogenesis. Cancer Res 2003; 63: 3524-30.