

1           **Description of Additional Supplementary Files of the manuscript entitled**  
2           **“Loss of Smad4 promotes aggressive lung cancer metastasis by de-repression**  
3           **of PAK3 via miRNA regulation”**

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5   File Name: Supplementary Data 1

6   Description: It includes the differentially expressed genes DEGs between SPK cells  
7   and PK cells.

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9   File Name: Supplementary Data 2

10   Description: It includes the top enriched human diseases by the KEGG analysis of  
11   DEGs listed in Supplementary Data 1.

12

13   File Name: Supplementary Data 3

14   Description: It includes the top enriched cellular processes by the KEGG analysis of  
15   DEGs listed in Supplementary Data 1.

16

17   File Name: Supplementary Data 4

18   Description: It includes that DEGs, listed in Supplementary Data 1, are related to  
19   cancer and cell motility.

20

21   File Name: Supplementary Data 5

22   Description: It is the summary of lung cancer metastasis in PK &SPK mice.

23

24   File Name: Supplementary Data 6

25   Description: It is the summary of SMAD4 mutation in the MSK-IMPACT datasets.

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27   File Name: Supplementary Data 7

28   Description: It is the summary of lung cancer patients who have triple mutations in  
29   KRAS, TP53, and SMAD4.

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31   File Name: Supplementary Data 8

32   Description: It is the summary of patient information of Figure 7.

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34   File Name: Supplementary Data 9

35   Description: It is the summary of patient information of Sup. Fig. 9c.

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