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Correction: PAX6 promotes neuroendocrine phenotypes of prostate cancer via enhancing MET/STAT5Amediated chromatin accessibility

Nan Jing^{1,2†}, Xinxing Du^{3†}, Yu Liang^{4†}, ZhenKeke Tao¹, Shijia Bao¹, Huixiang Xiao¹, Baijun Dong³, Wei-Qiang Gao^{1,2*} and Yu-Xiang Fang^{1*}

Correction: J Exp Clin Cancer Res 43, 144 (2024) https://doi.org/10.1186/s13046-024-03064-1

Following publication of the original article [1], an incorrect spelling was spotted in Fig. 6h of the published article. The tumor sample grouping as "PAX6+shSTAT5A" should be corrected to "shPAX6+STAT5A".

Furthermore, errors were also spotted in the Supplementary Materials:

1. Supplement material 1: In the a-panel of Figure S3, the authors omitted to mark the significant difference of the qPCR result and now have added it according to the description in the text.

2. The "Additional information" file of this paper should be deleted because it is not the final version of the supporting data.

- 3. Supplement material 1: In the h-panel of Figure S5, the authors misspelled the name of the tumor sample grouping as "PAX6+shSTAT5A". The correct spelling should be "shPAX6+STAT5A".
- 4. Supplementary material 6 should be deleted because it is the response figure which is included in our response to the reviewers' comments for argument and is also partially repeated to the supplementary material 1.
- 5. Supplementary material 7 should be deleted because it is actually the supplementary figure S7 and its relevant figure legend which have been included in the supplementary material 1.

The corrections do not affect the overall result or conclusion of the article. The original article has been corrected.

 $^\dagger \mbox{Nan Jing, Xinxing Du}$ and Yu Liang equal contribution and co-first authors.

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Incorrect Figure 6

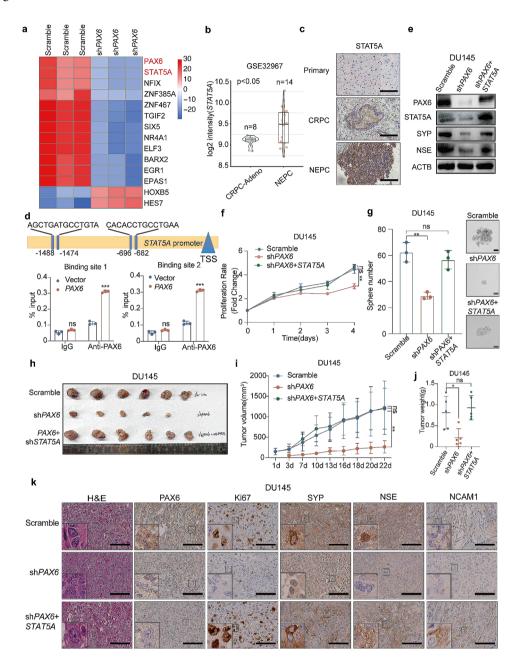


Fig. 6 *PAX6* promotes NE characteristics via *STAT5A*. **a** The heatmap of candidate TFs with significant expressional difference in DU145-sh*PAX6* cells and DU145-Scramble cells. **b** Comparisons of *STAT5A* mRNA expression in CRPC-Adeno vs. NEPC based on the GSE32967 dataset (CRPC-Adeno, n=8; NEPC, n=14). **c** Representative IHC staining of STAT5A in tissues from patient with Primary PCa, CRPC or NEPC (Scale Bar: 100 µm). **d** ChIP assay of PAX6 binding at the promoter region of *STAT5A* in LNCaP-*PAX6* cells. **e** Protein expression of PAX6, STAT5A, SYP and NSE in DU145-sh*PAX6* cells with or without *STAT5A* overexpression. **g** Representative image and quantification assay of tumorsphere formation in DU145-sh*PAX6* cells with or without *STAT5A* over-expression. **h** Anatomic tumor images and tumor weight analysis of DU145-sh*PAX6* cells inoculated xenografts with or without *STAT5A* overexpression (n=6). **i** Tumor volume analysis of DU145-sh*PAX6* and DU145-sh*PAX6* tells inoculated xenografts respectively (n=6). **j** Tumor weights analysis of DU145-sh*PAX6* and DU145-s

Correct Figure 6

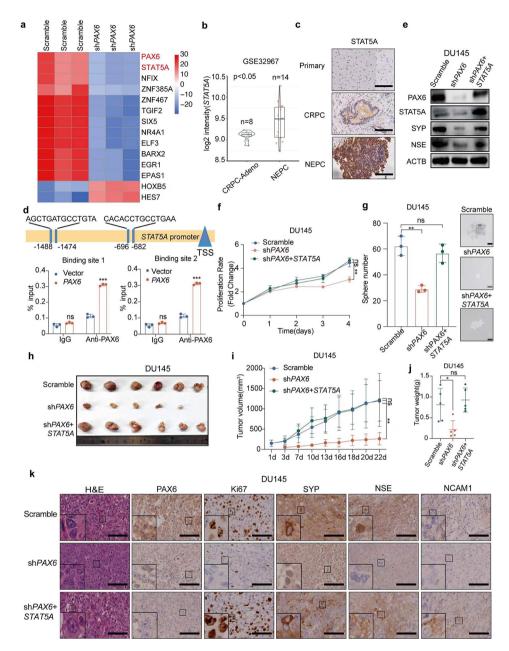


Fig. 6 *PAX6* promotes NE characteristics via *STAT5A*. **a** The heatmap of candidate TFs with significant expressional difference in DU145-sh*PAX6* cells and DU145-Scramble cells. **b** Comparisons of *STAT5A* mRNA expression in CRPC-Adeno vs. NEPC based on the GSE32967 dataset (CRPC-Adeno, n=8; NEPC, n=14). **c** Representative IHC staining of STAT5A in tissues from patient with Primary PCa, CRPC or NEPC (Scale Bar: 100 μ m). **d** ChIP assay of PAX6 binding at the promoter region of *STAT5A* in LNCaP-*PAX6* cells. **e** Protein expression of PAX6, STAT5A, SYP and NSE in DU145-sh*PAX6* cells with or without *STAT5A* overexpression. **g** Representative image and quantification assay of tumorsphere formation in DU145-sh*PAX6* cells with or without *STAT5A* over-expression. **h** Anatomic tumor images and tumor weight analysis of DU145-sh*PAX6* cells inoculated xenografts with or without *STAT5A* overexpression (n=6). **i** Tumor volume analysis of DU145-sh*PAX6* and DU145-sh*PAX6* tells inoculated xenografts respectively (n=6). **j** Tumor weights analysis of DU145-sh*PAX6* and DU145

Supplementary Information

The online version contains supplementary material available at https://doi.org/10.1186/s13046-024-03084-x.

Supplementary Material 1

Published online: 15 June 2024

References

 Jing N, Du X, Liang Y, et al. PAX6 promotes neuroendocrine phenotypes of prostate cancer via enhancing MET/STAT5A-mediated chromatin accessibility. J Exp Clin Cancer Res. 2024;43:144. https://doi.org/10.1186/ s13046-024-03064-1.

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