



Retraction: Collagen Prolyl Hydroxylases Are Essential for Breast Cancer Metastasis

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This article (1) has been retracted at the request of the authors. Following an institutional review by Johns Hopkins University, the primary affiliation for several of the authors, it was determined that in Fig. 1B, lanes 5 and 7 of the HIF-1 α Western blot were duplicated, and lanes 5 and 7 of the P4HA1 Western blot were duplicated. Additionally, as previously published in an Editor's Note (2), the Western blot bands representing HIF-1 α , HIF-2 α , and actin were also used in Fig. 1A of a 2012 *Oncogene* publication by the authors (3). The authors apologize to the scientific community and deeply regret any inconveniences or challenges resulting from the publication and subsequent retraction of this article.

A copy of this Retraction Notice was sent to the last known email addresses for eight of the nine authors. Three authors (Daniele M. Gilkes, Denis Wirtz, and Gregg L. Semenza) agreed to the retraction; five authors (Pallavi Chaturvedi, Saumendra Bajpai, Carmen C. Wong, Hong Wei, and Maimon E. Hubbi) did not respond; the one remaining author (Stephen Pitcairn) is deceased.

References

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2. Gilkes DM, Chaturvedi P, Bajpai S, Wong CC, Wei H, Pitcairn S, et al. Editor's note: collagen prolyl hydroxylases are essential for breast cancer metastasis. *Cancer Res* 2022;82:943.
3. Zhang H, Wong CCL, Wei H, Gilkes DM, Korangath P, Chaturvedi P, et al. Retracted article: HIF-1-dependent expression of angiotensin-like 4 and L1CAM mediates vascular metastasis of hypoxic breast cancer cells to the lungs. *Oncogene* 2012;31:1757–70.

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