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- \$\vec{Y}>&Cancer Fights Back: Hypoxia and HIF Signalling in the Development of Chemoresistance in Cancer Cells
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Numerous drug treatment regimes have been developed over the decades for the t management of diverse cancers. However, one of the unintended consequences of drug subsequent despertent of chemoresistance in patients resulting in disease relapse. The mechan which cancer cells become refractory to previously effective drugs remain poorly understoo presents a persistent hurdle in the eradication of the disease. Here we show that hypoxia signalling pathway are important drivers of chemoresistance through the induction of the ce survival response in two unrelated cancer types. In chronic myeloid leukemia patients, sev developed resiscence against the frontline tykins is inhibitor drug imatinib. We show that hypoxia which is a key microenvironment parameter in the bone marrow that harbours leukemic s drives their maintenance with the transcriptional regulation geores use participant at ely, our attempts at developing a therapeutic strategy for the treatment of breast cancer cells via inhibition of the G9A H3K9 methyltransferase led to the unexpected finding that this upregulates the hypoxi factors (Hst) and derepresses a number of hypoxia target genes many of which are also imp cell survival. Hypoxia itself, was able to promote an improved cell cycle response against G9A drugs. Together, these studies suggest that the hypothesia important mediator of chemoresistance in cancers of different origins, and future therapeutic targeting may nec concurrent inhibition of the HIF pathway for effective implementation of cancer treatments.

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