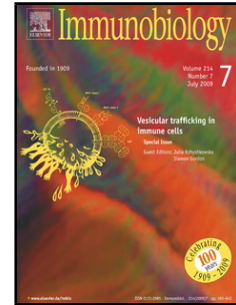


Accepted Manuscript

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PII: S0171-2985(13)00166-6
DOI: <http://dx.doi.org/doi:10.1016/j.imbio.2013.09.003>
Reference: IMBIO 51082

To appear in:

Received date: 20-5-2013
Revised date: 30-8-2013
Accepted date: 1-9-2013

Please cite this article as: Duechler, M., Peczek, L., Zuk, K., Zalesna, I., Jeziorski, A., Czyz, M., The heterogeneous immune microenvironment in breast cancer is affected by hypoxia-related genes, *Immunobiology* (2013), <http://dx.doi.org/10.1016/j.imbio.2013.09.003>

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The heterogeneous immune microenvironment in breast cancer is affected by hypoxia-related genes

Running title: The immunosuppressive microenvironment in breast cancer

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Keywords: cancer immunosuppression; cancer hypoxia; human breast cancer; immune microenvironment; surgical specimen

Abbreviations: EpCAM, epithelial cell adhesion molecule; ER, estrogen receptor; HIF, hypoxia inducible factor; HO-1, heme oxygenase-1; IDO-1, indoleamine 2,3-dioxygenase; FoxP3, Forkhead-Box-Protein P3; IL-10, interleukin 10; MDSC, myeloid-derived suppressor cells; NK cell, natural killer cell; PgR, progesterone receptor; Stat-3, signal transducer and activator of transcription 3; TAM, tumor associated macrophage; TBP, Tata-box binding protein; PPIA, peptidylprolyl isomerase A = cyclophilin A; TGF- β , transforming growth factor beta; TIL, tumor infiltration leukocytes; Treg cells, regulatory T cells; VEGF, vascular endothelial growth factor.

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