

Accepted Manuscript

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PII: S1357-2725(17)30049-3
DOI: <http://dx.doi.org/doi:10.1016/j.biocel.2017.03.003>
Reference: BC 5089

To appear in: *The International Journal of Biochemistry & Cell Biology*

Received date: 16-11-2016
Revised date: 31-1-2017
Accepted date: 3-3-2017

Please cite this article as: Li, Xiaogang., Lu, Ping., Li, Bo., Zhang, Wanfu., Yang, Rong., Chu, Yan., & Luo, Kaiyuan., Interleukin 2 and interleukin 10 function synergistically to promote CD8⁺ T cell cytotoxicity, which is suppressed by regulatory T cells in breast cancer. *International Journal of Biochemistry and Cell Biology* <http://dx.doi.org/10.1016/j.biocel.2017.03.003>

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**Interleukin 2 and interleukin 10 function synergistically to promote CD8⁺ T cell cytotoxicity,
which is suppressed by regulatory T cells in breast cancer**

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Short title: IL-10 and breast cancer.

Abstract

The precise role of interleukin (IL)-10 in breast cancer is not clear. Previous studies suggested a tumor-promoting role of IL-10 in breast cancer, whereas recent discoveries that IL-10 activated and expanded tumor-resident CD8⁺ T cells challenged the traditional view. Here, we investigated the role of IL-10 in HLA-A2-positive breast cancer patients with Grade III, Stage IIA or IIB in-situ and invasive ductal carcinoma, and compared it with that of IL-2, the canonical CD8⁺ T cell growth factor. We first observed that breast cancer patients presented higher serum levels of IL-2 and IL-10 than healthy controls. Upon prolonged TCR stimulation, peripheral blood CD8⁺ T cells

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