

## The Role of CCL18 protein in Breast Cancer Development and Progression

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CCL18 is a CC chemokine ligand 18, which is produced by Tumor-Associated Macrophages (TAMs), that can stimulate the progressiveness, angiogenesis in breast cancer, as well as the underlying pathophysiological mechanisms and it was originally discovered as pulmonary and activation-regulated chemokine (PARC), dendritic cell (DC)-chemokine 1 (DC-CK1), alternative macrophage activation associated CC chemokine-1 (AMAC-1), and macrophage inflammatory protein-4 (MIP-4). The potential functional receptor of CCL18 protein is PITPNM3 that facilitates CCL18 effect and stimulates the intracellular calcium signaling pathway. Worldwide, Breast cancer (BCa) is one of the most common malignancies among the females in both developed and also developing county. This study mainly focused on the role of CCL18 in the production of breast tumor as well as in the invasiveness of breast cancer. The data here suggest that CCL18 protein play an important role in the development of breast tumor and also progression in breast cancer. This knowledge could be helpful for the proposal of new therapeutic approaches particularly in breast cancer.

### Biography

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