

Special Issue on
Breast Cancer Induced Bone Metastases

CALL FOR PAPERS

Breast cancer represents the most common cancer and the leading cause of death among women worldwide. Up to 80% of patients with advanced metastatic breast cancer experience distal recurrence with bone as the most common metastatic site. Bone metastases are the most frequent source of morbidity and disability related to breast cancer due to severe bone pain, skeletal fractures, hypercalcemia, and nerve compression.

Osteoblasts, osteoclasts, osteocytes, and other bone marrow cells are involved at different stages in the process of invasion and breast cancer growth within the bone.

Once breast cancer cells colonize the bone they dramatically modify the bone microenvironment causing an imbalance in bone remodeling that favors bone destruction by the newly formed osteoclasts. Increased osteoclast activity leads to release of growth factors from the bone matrix which increase tumour cell proliferation and survival.

This process known as the osteolytic vicious characterizes breast cancer bone metastases, in which osteoclasts play the central role.

Within this special issue, we aim to dissect the pathogenesis of these peculiar secondary lesions and discuss novel treatment strategies both in preclinical and in clinical experimentations. Contributions from clinicians and basic scientists are welcomed and opinions from leaders of different fields are what we especially encourage in order to have a perspective and complete overview of breast cancer induced bone metastases.

Potential topics include but are not limited to the following:

- ▶ Breast cancer bone metastases pathogenesis
- ▶ Breast cancer cells and bone environment
- ▶ Breast cancer bone metastatic patients treatment
- ▶ Breast cancer bone metastasis and pain: basic
- ▶ Breast cancer bone metastasis and pain: clinical
- ▶ Breast cancer tropism
- ▶ Breast cancer dormancy in bone
- ▶ Treatment of breast cancer bone metastases: preclinical
- ▶ Treatment of breast cancer bone metastases: clinical

Authors can submit their manuscripts through the Manuscript Tracking System at <https://mts.hindawi.com/submit/journals/ijbc/bcb/>.

Papers are published upon acceptance, regardless of the Special Issue publication date.

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