Recent Advances in Canine Mammary Tumors

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Message from the Guest Editors

Canine mammary tumors (CMTs) are the most common neoplasm in intact female dogs, and about 50% of them are considered malignant. A CMT is a good spontaneous animal model of human breast cancer (HBC) research because it shares many similarities, such as epidemiologic, clinical, genetical, biological and pathological characteristics; additionally, their histological and molecular patterns are very heterogeneous. Different hormones and growth factors influence the occurrence of CMTs, but the pathological mechanisms remain unclear. In addition to circulating hormones, their receptors play a central role in mammary tumor formation (estrogen and progesterone receptors). Surgery is still the frontline treatment, but other therapies can be beneficial regarding patients' survival. Advances in molecular pathways associated with cancer progression have highlighted several aspects in the field, and the development of new treatments may be promising for comparative and translational oncology.

This Special Issue aims to publish original research papers or reviews about canine mammary tumors, concerning their diagnosis, prognosis and therapeutics.

Special Issue

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Message from the Editor-in-Chief

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