

Lay Summary

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Immunohistochemical study of H3.3 K27M expression in canine glioma: a potential model for human diffuse midline glioma

Roberto Jose-Lopez, University of Glasgow

Glioma is the most common of brain cancers in people. It is classified into four grades (1 to 4) based on its malignancy. Grade 4 glioma is the deadliest of all brain cancers, we still have no cure for it, and most patients die within a year of falling unwell. Diffuse midline glioma is a type of grade 4 glioma most frequent in children and associated with a certain mutation (H3 K27M). Dogs also get affected by gliomas quite commonly, which makes them an excellent research model. By investigating the presence of the above mutation in already collected tissue from gliomas in pet dogs, we might gather a better understanding of this type of tumours, which is crucial to decrease the high mortality rates they have in both, dogs and people.