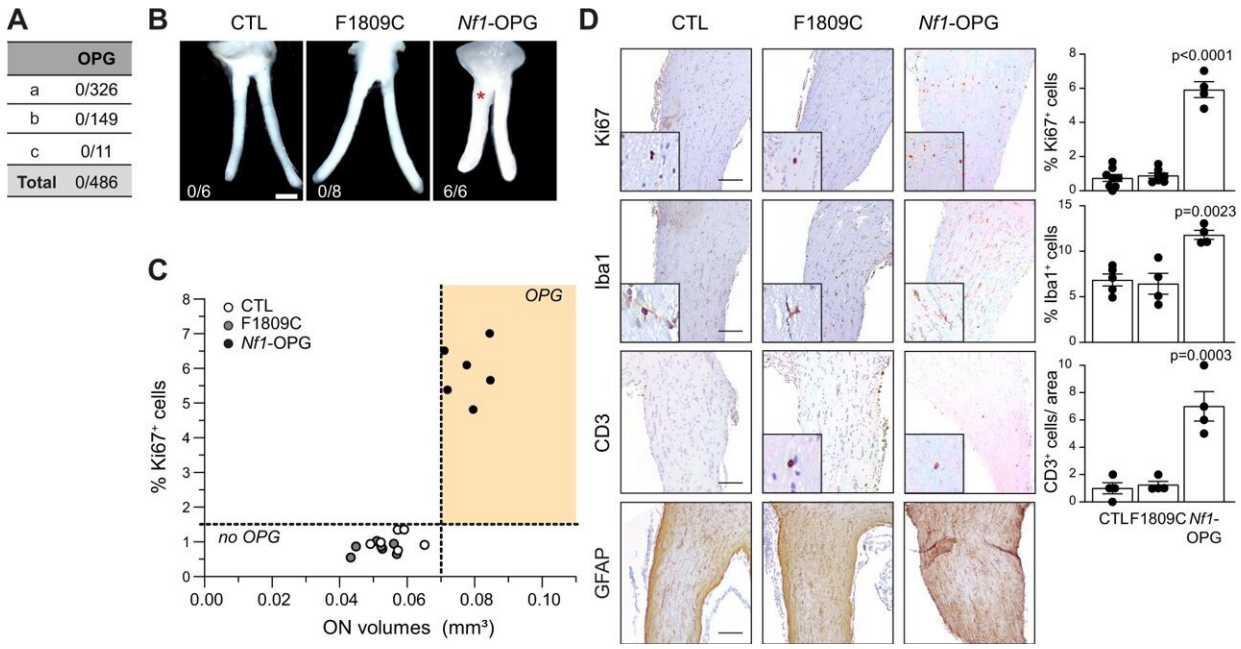
Epilepsy drug stops nervous system tumor growth in mice

May 19 2022



Arg1809Cys Nf1-mutant mice do not develop optic gliomas following somatic Nf1 inactivation. A Incidence of optic pathway glioma (OPG) in NF1 patients harboring the c.5425C > T NF1 germline mutation. B Representative images of dissected optic nerves from control (Nf1f/f; CTL) and Nf1-mutant mice harboring conditional somatic Nf1 inactivation in neuroglial progenitors (Nf1f/1809; GFAP-Cre, F1809C; Nf1f/neo; GFAP-Cre, Nf1-OPG). Whereas Nf1-OPG mice form OPGs (red asterisk), CTL and F1809C mice do not. The number of mice that formed OPGs is shown in each panel. Scale bar: 1 mm. C Graph demonstrating the relationship between optic nerve volumes and Ki67+ cells in CTL, F1809C, and Nf1-OPG optic nerves. n = 6 for all groups. D Ki67, Iba1, CD3, and GFAP immunostaining of optic nerves in CTL, F1809C, and Nf1-OPG mice. Scale bars, 50 μm. (Ki67: CTL n = 8, F1809C n = 7, Nf1-OPG

n = 4, P