Figure S1

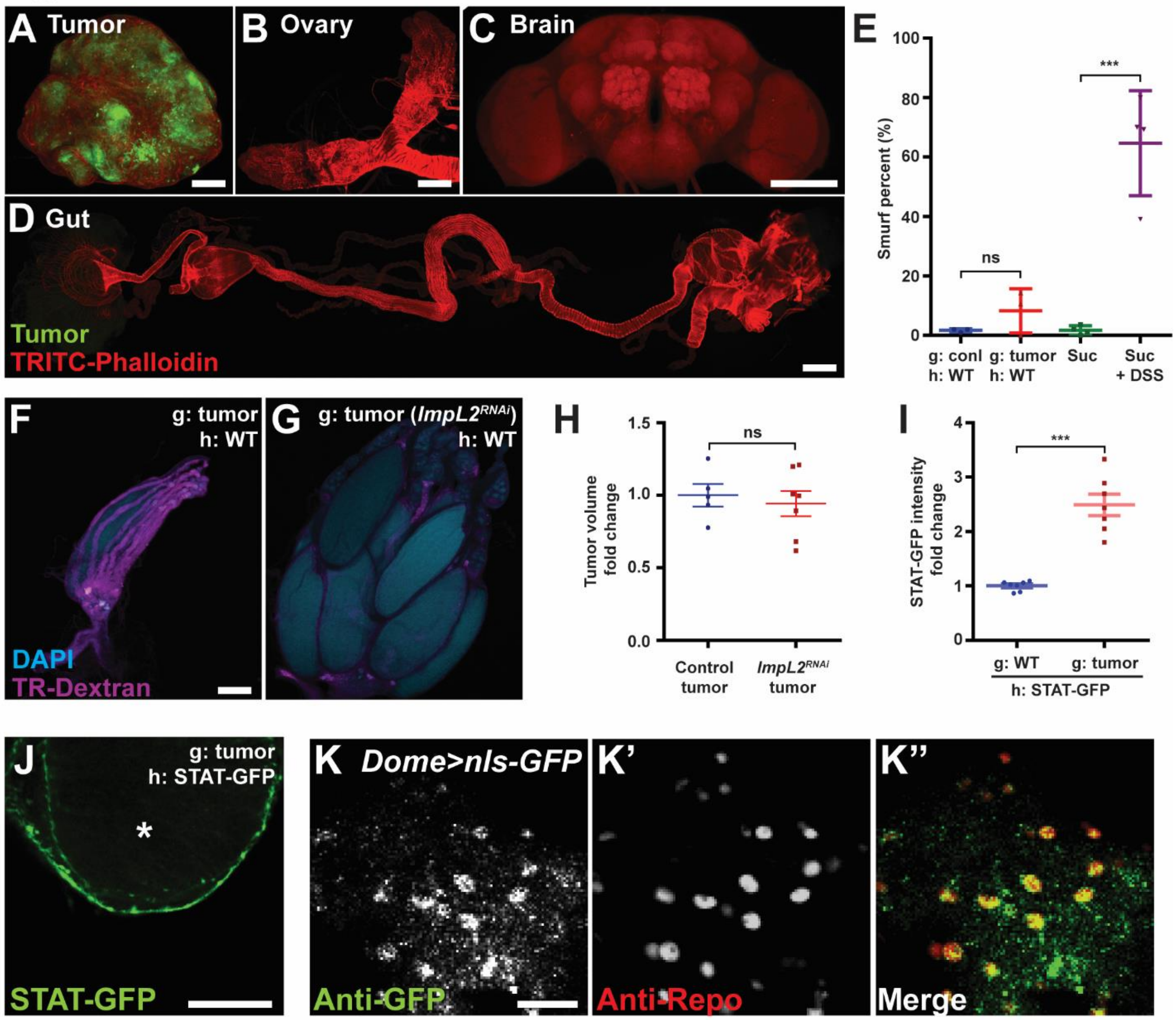
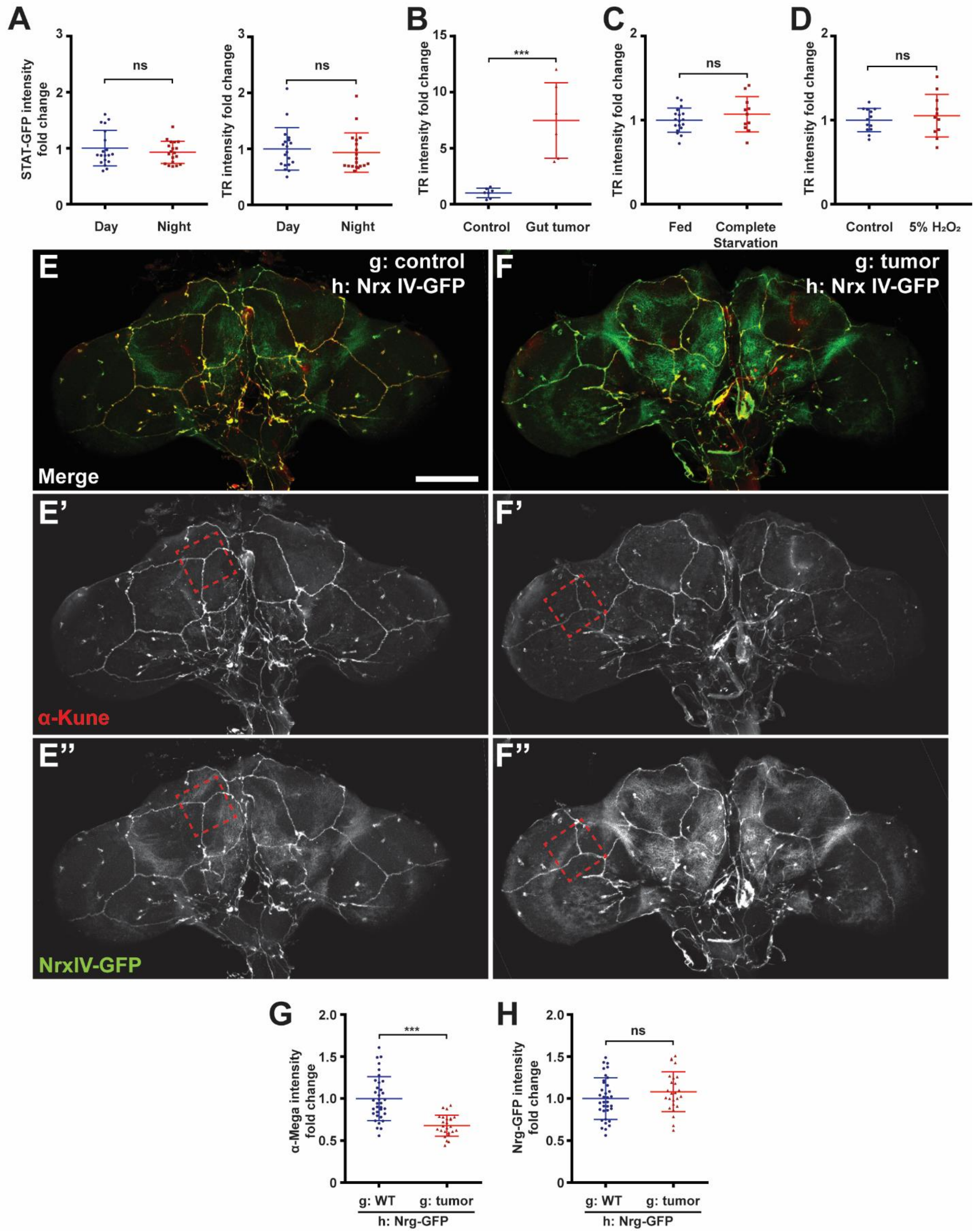


Figure S1. Tumor-bearing fly hosts show glial Jak/STAT activation and premature death. Related to Figure 1.

(A-D) GFP-marked cells from transplanted disc tumors (A) are not detectable in host tissues including the ovary (B), the brain (C), and the gut (D). Scale bar; 100 um. **(E)** Most tumor-bearing hosts do not show increased intestinal permeability prior to death, as detected by the 'smurf' assay; DSS-fed flies serve as positive control (>3 replicates of 20 flies each). **(F-H)** Depletion of *ImpL2* in tumors rescues ovary wasting (F, G) without affecting tumor size (H) (n≥5 each). **(I)** Quantification of STAT reporter intensity in the optic lobe of control vs tumor hosts (n=7 each). **(J)** Tumor-bearing hosts exhibit strong STAT-GFP signal at the surface of the brain (single plane image). Asterisks indicate neuropil. Scale bar, 50 um. **(K)** *Dome-Gal4* driving *UAS>nls-GFP* shows expression in glial cells labeled by anti-Repo. Scale bar, 20 um.

Scattered plots; *P<0.05, **P<0.01, ***P<0.001, not significant (ns)P>0.05; one-way anova (Tukey post test) for (E), Student's t-test for (H) and (I).

Figure S2



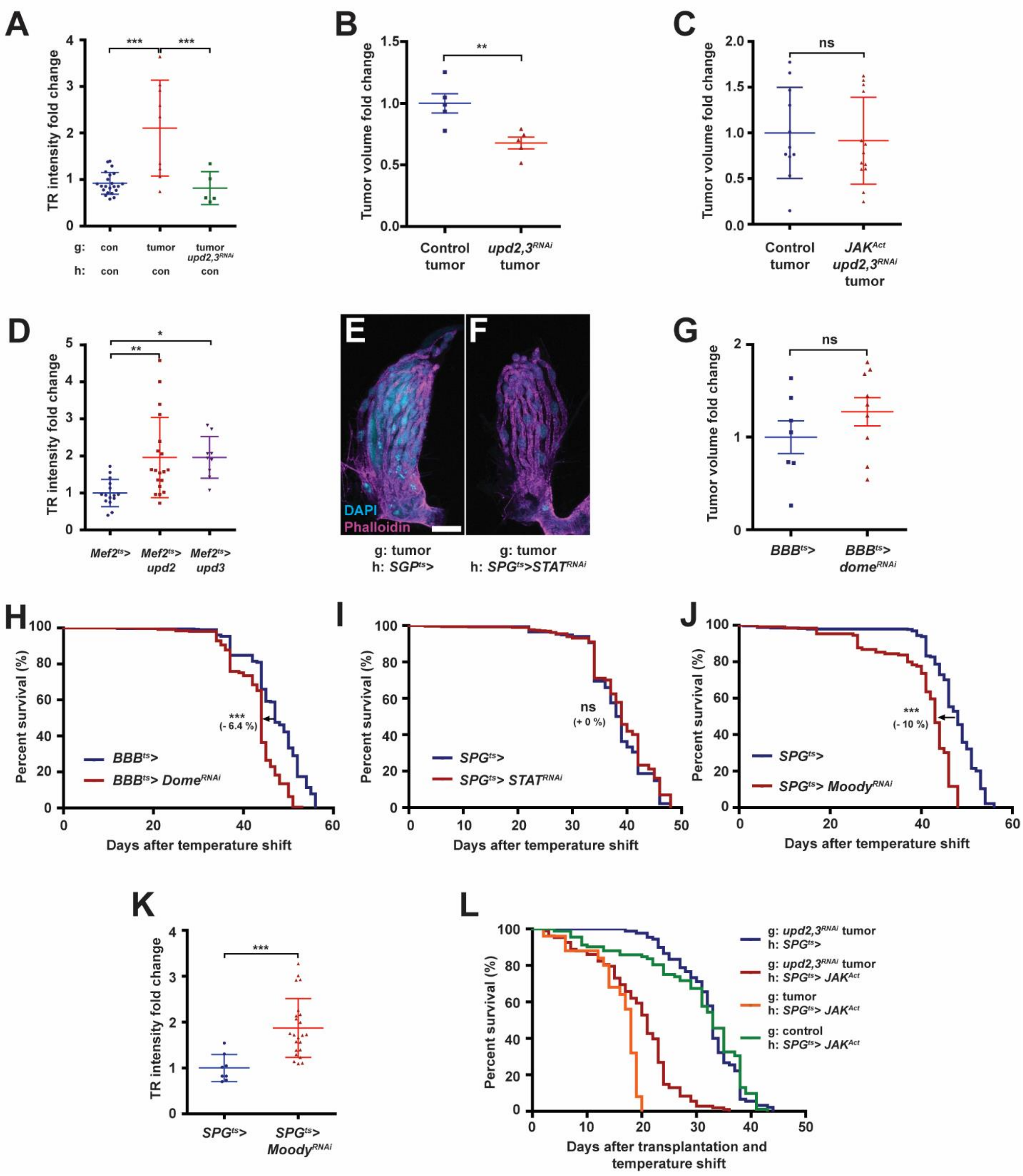
A
STAT-GFP intensity fold change
TR intensity fold change
Day
Night
ns
B
TR intensity fold change
Control
Gut tumor
***
C
Fed
Complete Starvation
ns
D
Control
5% H2O2
ns
E
g: control
h: Nrx IV-GFP
F
g: tumor
h: Nrx IV-GFP
Merge
E'
F'
α-Kune
E''
F''
NrxIV-GFP
G
α-Mega intensity fold change
g: WT
g: tumor
h: Nrg-GFP
***
H
Nrg-GFP intensity fold change
g: WT
g: tumor
h: Nrg-GFP
ns

Figure S2. Fly tumors induce BBB disruption. Related to Figure 2.

(A) Neither Dextran exclusion from brain nor STAT reporter intensity are circadian regulated (n=19 each). **(B)** An adult gut tumor model driven by activated Yorkie expression in intestinal stem cells also shows BBB permeability (n=7) compared to control (n=6). **(C, D)** Complete starvation (C, fed n=18, starvation n=11) and oxidative stress (D, control n=13, H_2O_2 n=11) do not permeabilize the BBB. **(E, F)** Images of Nrx IV-GFP brains with anti-Kune staining. Areas shown in Figure 2E and F are indicated with dotted boxes. Scale bar, 100 um. **(G, H)** Intensity of the claudin Mega but not the junctional transmembrane protein Nrg is decreased in the brain of tumor-bearing vs control hosts (n=25, 35).

Scattered plots; *P<0.05, **P<0.01, ***P<0.001, not significant (ns)P>0.05; Student's t-test.

Figure S3



A
TR intensity fold change
g: con tumor tumor upd2,3RNAi
h: con con con
B
Tumor volume fold change
Control tumor
upd2,3RNAi tumor
C
Tumor volume fold change
Control tumor
JAKAct upd2,3RNAi tumor
D
TR intensity fold change
Mef2ts>
Mef2ts> upd2
Mef2ts> upd3
E
F
DAPI
Phalloidin
g: tumor
h: SGPts>
g: tumor
h: SPGts>STATRNAi
G
Tumor volume fold change
BBBts>
BBBts> domeRNAi
H
Percent survival (%)
Days after temperature shift
(- 6.4 %)
BBBts>
BBBts> DomeRNAi
I
Percent survival (%)
Days after temperature shift
(+ 0 %)
SPGts>
SPGts> STATRNAi
J
Percent survival (%)
Days after temperature shift
(- 10 %)
SPGts>
SPGts> MoodyRNAi
K
TR intensity fold change
SPGts>
SPGts> MoodyRNAi
L
Percent survival (%)
Days after transplantation and temperature shift
g: upd2,3RNAi tumor
h: SPGts>
g: upd2,3RNAi tumor
h: SPGts> JAKAct
g: tumor
h: SPGts> JAKAct
g: control
h: SPGts> JAKAct

Figure S3. Jak/STAT inhibition rescues tumor-induced BBB permeability and extends host lifespan. **Related to Figure 3.**

(A) Compared to control (blue, n=22) and BBB compromised by tumors (red, n=9), BBB permeability is rescued when hosts bear tumors depleted of *upd2/3* (green, n=5). **(B)** $upd2/3^{RNAi}$ tumors are smaller than control tumors (n=5 each). **(C)** Size of $UAS\text{-}JAK^{ACT},upd2/3^{RNAi}$ tumors (red, n=13) is similar to control tumors (blue, n=10). **(D)** Ectopic expression of *upd2* (red, n=19) or *upd3* (purple, n=9) in muscle is sufficient to permeabilize BBB compared to control (blue, n=15). **(E, F)** Wasting is not rescued when STAT signaling is blocked within the SPG of tumor hosts; compare to control in Fig. S1F. Scale bar, 100 um. **(G)** Tumor size is not changed when STAT signaling blocked in BBB (red, n=9) compared to control (blue, n=7). **(H, I)** Depletion of Dome in the BBB (H) (red, n=253) or depletion of STAT in SPG (I) (red, n=429) did not extend lifespan without tumors (blue, n=282 and n=535, respectively). **(J)** Depletion of Moody in SPG cells (red, n= 129) causes only a modest and late-acting reduction in lifespan compared to control (blue, n=358). **(K)** BBB becomes permeable 5 days after induction of Moody depletion in SPG (red, n=23) compared to control (blue, n=8). **(L)** *upd2,3*-depleted tumors reduced lifespan of BBB-compromised hosts (red, n=108) compared to control hosts (blue, n=90). This reduced lifespan is longer than BBB-compromised hosts with regular tumors (orange, n=25) and shorter than BBB-compromised hosts with WT tissue (purple, n=92).

Scattered plots; *P<0.05, **P<0.01, ***P<0.001, not significant (ns)P>0.05; one-way anova (Tukey post test) for (A) and (D), Student's t-test for (B), (C), (G), and (K). Lifespan curves; *P<0.05, **P<0.01, ***P<0.001, not significant (ns)P>0.05; Log-rank test. Error bar represents mean±s.d of normalized values to control.

Figure S4

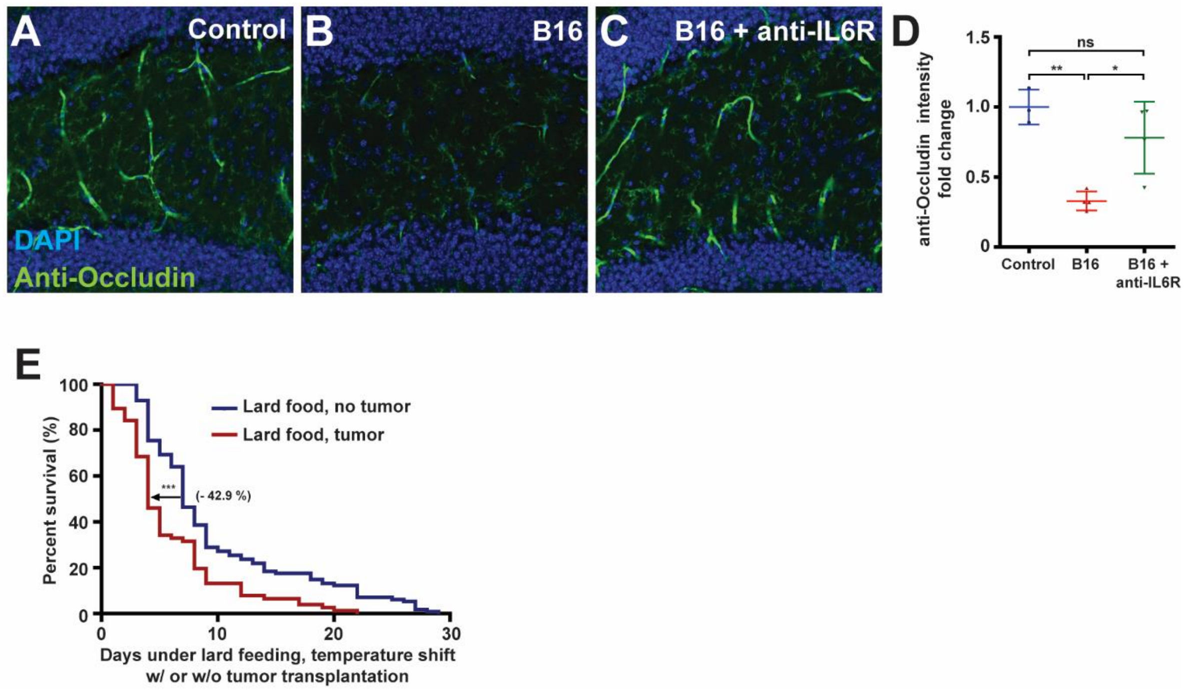


Figure S4. Paraneoplastic BBB breakdown in an IL-6-inducing mouse tumor model. Related to Figure 5 and Discussion.

(A-D) Compared to control (A, n=3), brains of tumor-bearing mice (B, n=4) show decreased staining of the endothelial tight junction component Occludin. This phenotype is reversed when tumor-bearing mice are treated with anti-IL-6R antibody (C, n=4). (D) shows quantitation.

(E) Lard-fed hosts with tumor transplants (red, n=76) show accelerated mortality compared to lard-fed hosts with mock transplants (blue, n=114).

Scattered plots; *P<0.05, **P<0.01, ***P<0.001, not significant (ns)P>0.05; one-way anova (Tukey post test). Lifespan curves; *P<0.05, **P<0.01, ***P<0.001, not significant (ns)P>0.05; Log-rank test. Error bar represents mean±s.d of normalized values to control.

Table S1. Detailed genotypes, related to the STAR Methods and to all figures

Figure	Panel	Genotype
1	A	Nub-Gal4, Tub-Gal80^{ts}; UAS-aPKC$^{\Delta N}$, UAS-Ras^{V12}
	B	Blue g: w^{1118}// h: w^{1118}
		Red g: Nub-Gal4, Tub-Gal80^{ts}/+; UAS-aPKC$^{\Delta N}$, UAS-Ras^{V12}/+// h: w^{1118}
		Green g: Nub-Gal4, Tub-Gal80^{ts}/+; UAS-aPKC$^{\Delta N}$, UAS-Ras^{V12}/impL2^{RNAi}// h: w^{1118}
	C	g: w^{1118}// h: 10xSTAT92E-GFP/10xSTAT92E-GFP; +/+
	D	g: Nub-Gal4, Tub-Gal80^{ts}/+; UAS-aPKC$^{\Delta N}$, UAS-Ras^{V12}/+// h: 10xSTAT92E-GFP/10xSTAT92E-GFP; +/+
	E	g: w^{1118}// h: 10xSTAT92E-GFP/10xSTAT92E-GFP; +/+
	F	g: Nub-Gal4, Tub-Gal80^{ts}/+; UAS-aPKC$^{\Delta N}$, UAS-Ras^{V12}/+// h: 10xSTAT92E-GFP/10xSTAT92E-GFP; +/+
	G	g: Nub-Gal4, Tub-Gal80^{ts}/+; UAS-aPKC$^{\Delta N}$, UAS-Ras^{V12}/+// h: 10xSTAT92E-GFP/10xSTAT92E-GFP; +/+
2	A	g: w^{1118}// h: w^{1118}
	B	g: Nub-Gal4, Tub-Gal80^{ts}/+; UAS-aPKC$^{\Delta N}$, UAS-Ras^{V12}/+// h: w^{1118}
	C	Blue g: w^{1118}// h: w^{1118}
		Red g: Nub-Gal4, Tub-Gal80^{ts}/+; UAS-aPKC$^{\Delta N}$, UAS-Ras^{V12}/+// h: w^{1118}
	D	g: Nub-Gal4, Tub-Gal80^{ts}/+; UAS-aPKC$^{\Delta N}$, UAS-Ras^{V12}/+// h: w^{1118}
	E	g: PBS// h: +/+; NrxIV-GFP/ NrxIV-GFP
	F	g: Nub-Gal4, Tub-Gal80^{ts}/+; UAS-aPKC$^{\Delta N}$, UAS-Ras^{V12}/+// h: +/+; NrxIV-GFP/ NrxIV-GFP
	G, H	Blue g: PBS// h: +/+; NrxIV-GFP/ NrxIV-GFP
		Red g: Nub-Gal4, Tub-Gal80^{ts}/+; UAS-aPKC$^{\Delta N}$, UAS-Ras^{V12}/+// h: +/+; NrxIV-GFP/ NrxIV-GFP
3	A	g: Nub-Gal4, Tub-Gal80^{ts}/+; UAS-aPKC$^{\Delta N}$, UAS-Ras^{V12}/+// h: w^{1118}
	B	g: Nub-Gal4, Tub-Gal80^{ts}/+; UAS-aPKC$^{\Delta N}$, UAS-Ras^{V12}/+// h: upd2$^{\Delta}$,3$^{\Delta}$/upd2$^{\Delta}$,3$^{\Delta}$; +/+; +/+
	C	g: UAS-Hop^{TumL}/+; Nub-Gal4, Tub-Gal80^{ts}/upd3^{RNAi}; UAS-aPKC$^{\Delta N}$, UAS-Ras^{V12}/upd2^{RNAi} // h: w^{1118}
	D	Blue g: w^{1118}// h: w^{1118}
		Red g: Nub-Gal4, Tub-Gal80^{ts}/+; UAS-aPKC$^{\Delta N}$, UAS-Ras^{V12}/+// h: w^{1118}
		Purple g: Nub-Gal4, Tub-Gal80^{ts}/+; UAS-aPKC$^{\Delta N}$, UAS-Ras^{V12}/+// h: upd2$^{\Delta}$,3$^{\Delta}$/upd2$^{\Delta}$,3$^{\Delta}$; +/+; +/+
		Green g: UAS-Hop^{TumL}/+; Nub-Gal4, Tub-Gal80^{ts}/upd3^{RNAi}; UAS-aPKC$^{\Delta N}$, UAS-Ras^{V12}/upd2^{RNAi}// h: w^{1118}
	E	g: Nub-Gal4, Tub-Gal80^{ts}/+; UAS-aPKC$^{\Delta N}$, UAS-Ras^{V12}/+// h: 9-137-Gal4/+; Tub-Gal80^{ts}/+
	F	g: Nub-Gal4, Tub-Gal80^{ts}/+; UAS-aPKC$^{\Delta N}$, UAS-Ras^{V12}/+// h: 9-137-Gal4/Dome^{RNAi}; Tub-Gal80^{ts}/+
	G	Blue g: PBS// h: 9-137-Gal4/+; Tub-Gal80^{ts}/+
		Red g: Nub-Gal4, Tub-Gal80^{ts}/+; UAS-aPKC$^{\Delta N}$, UAS-Ras^{V12}/+// h: 9-137-Gal4/+; Tub-Gal80^{ts}/+
		Green g: Nub-Gal4, Tub-Gal80^{ts}/+; UAS-aPKC$^{\Delta N}$, UAS-Ras^{V12}/+// h: 9-137-Gal4/Dome^{RNAi}; Tub-Gal80^{ts}/+
	H	Blue g: PBS// h: Tub-Gal80^{ts}/+^{i}; Moody-Gal4/+
		Red g: Nub-Gal4, Tub-Gal80^{ts}/+; UAS-aPKC$^{\Delta N}$, UAS-Ras^{V12}/+// h: Tub-Gal80^{ts}/+^{i}; Moody-Gal4/+
		Green g: Nub-Gal4, Tub-Gal80^{ts}/+; UAS-aPKC$^{\Delta N}$, UAS-Ras^{V12}/+// h: Tub-Gal80^{ts}/Dome^{RNAi}; Moody-Gal4/+
		Purple g: Nub-Gal4, Tub-Gal80^{ts}/+; UAS-aPKC$^{\Delta N}$, UAS-Ras^{V12}/+// h: STAT^{RNAi}/+; Tub-Gal80^{ts}/STAT^{RNAi}; Moody-Gal4/+
	I	Blue +/+; Tub-Gal80^{ts}/+; Moody-Gal4/+
		Red UAS-Hop^{Tum}/+; Tub-Gal80^{ts}/+; Moody-Gal4/+
	J	Blue g: Nub-Gal4, Tub-Gal80^{ts}/+; UAS-aPKC$^{\Delta N}$, UAS-Ras^{V12}/+// h: 9-137-Gal4/+; Tub-Gal80^{ts}/+
		Red g: Nub-Gal4, Tub-Gal80^{ts}/+; UAS-aPKC$^{\Delta N}$, UAS-Ras^{V12}/+// h: 9-137-Gal4/Dome^{RNAi}; Tub-Gal80^{ts}/+
	K	Blue g: Nub-Gal4, Tub-Gal80^{ts}/+; UAS-aPKC$^{\Delta N}$, UAS-Ras^{V12}/+// h: +/+; Tub-Gal80^{ts}/+; Moody-Gal4/mCh^{RNAi}
		Red g: Nub-Gal4, Tub-Gal80^{ts}/+; UAS-aPKC$^{\Delta N}$, UAS-Ras^{V12}/+// h: STAT^{RNAi}/+; Tub-Gal80^{ts}/STAT^{RNAi}; Moody-Gal4/+
	L	Blue g: Nub-Gal4, Tub-Gal80^{ts}/+; UAS-aPKC$^{\Delta N}$, UAS-Ras^{V12}/+// h: w^{1118}
		Red g: Nub-Gal4, Tub-Gal80^{ts}/+; UAS-aPKC$^{\Delta N}$, UAS-Ras^{V12}/+// h: upd2$^{\Delta}$,3$^{\Delta}$/upd2$^{\Delta}$,3$^{\Delta}$; +/+; +/+
		Green g: UAS-Hop^{TumL}/+; Nub-Gal4, Tub-Gal80^{ts}/upd3^{RNAi}; UAS-aPKC$^{\Delta N}$, UAS-Ras^{V12}/upd2^{RNAi}// h: w^{1118}
	M	Blue +/+; Tub-Gal80^{ts}/+: Moody-Gal4/+
		Red UAS-Hop^{Tum}/+; Tub-Gal80^{ts}/+; Moody-Gal4/+
4	A	10xSTAT92E-GFP/10xSTAT92E-GFP; +/+
	B	10xSTAT92E-GFP/10xSTAT92E-GFP; +/+
	C	10xSTAT92E-GFP/10xSTAT92E-GFP; +/+
	D - G	Blue 10xSTAT92E-GFP/10xSTAT92E-GFP; +/+
		Red 10xSTAT92E-GFP/10xSTAT92E-GFP; +/+
	H, I	+/+; NrxIV-GFP/ NrxIV-GFP
	J	Blue 10xSTAT92E-GFP/10xSTAT92E-GFP; +/+
		Red 10xSTAT92E-GFP/10xSTAT92E-GFP; +/+
		Green 10xSTAT92E-GFP/10xSTAT92E-GFP; +/+
	K	Blue +/+; Tub-Gal80^{ts}/+; Moody-Gal4/+
		Red STAT^{RNAi}/+; Tub-Gal80^{ts}/STAT^{RNAi}; Moody-Gal4/+
	L	Blue +/+; Tub-Gal80^{ts}/+; Moody-Gal4/+
		Red STAT^{RNAi}/+; Tub-Gal80^{ts}/STAT^{RNAi}; Moody-Gal4/+
5	A	g: PBS// h: C57BL/6J
	B	g: B16-F10// h: C57BL/6J// treatment: PBS
	C	g: B16-F10// h: C57BL/6J// treatment: anti-IL6R
	D	Blue g: PBS// h: C57BL/6J
		Red g: B16-F10// h: C57BL/6J// treatment: PBS

		Green g: B16-F10// h: C57BL/6J// treatment: anti-IL6R
	E	g: PBS// h: C57BL/6J
	F	g: B16-F10// h: C57BL/6J// treatment: PBS
	G	g: B16-F10// h: C57BL/6J// treatment: anti-IL6R
	H	Blue g: PBS// h: C57BL/6J
		Red g: B16-F10// h: C57BL/6J// treatment: PBS
		Green g: B16-F10// h: C57BL/6J// treatment: anti-IL6R
	I	g: PBS// h: C57BL/6J
	J	g: B16-F10// h: C57BL/6J// treatment: PBS
	K	g: B16-F10// h: C57BL/6J// treatment: anti-IL6R
	L	Blue g: PBS// h: C57BL/6J
		Red g: B16-F10// h: C57BL/6J// treatment: PBS
		Green g: B16-F10// h: C57BL/6J// treatment: anti-IL6R
6	A	Blue g: PBS// h: C57BL/6J
		Red g: B16-F10// h: C57BL/6J
	B	Red g: B16-F10// h: C57BL/6J// treatment: PBS
		Green g: B16-F10// h: C57BL/6J// treatment: anti-IL6R
	C	Blue g: PBS// h: C57BL/6J
		Red g: B16-F10// h: C57BL/6J// treatment: PBS
		Green g: B16-F10// h: C57BL/6J// treatment: anti-IL6R
	D	Blue g: PBS// h: C57BL/6J
		Red g: B16-F10// h: C57BL/6J// treatment: PBS
		Green g: B16-F10// h: C57BL/6J// treatment: anti-IL6R
S1	A-D	g: Nub-Gal4, Tub-$Gal80^{ts}$/+; UAS-$aPKC^{\Delta N}$, UAS-Ras^{V12}/10x UAS-mCD8-GFP// h: w^{1118}
	E	Blue g: PBS// h: w^{1118}
		Red g: Nub-Gal4, Tub-$Gal80^{ts}$/+; UAS-$aPKC^{\Delta N}$, UAS-Ras^{V12}/+// h: w^{1118}
		Green and purple g: PBS// h: w^{1118}
	F	g: Nub-Gal4, Tub-$Gal80^{ts}$/+; UAS-$aPKC^{\Delta N}$, UAS-Ras^{V12}/+// h: w^{1118}
	G	g: Nub-Gal4, Tub-$Gal80^{ts}$/+; UAS-$aPKC^{\Delta N}$, UAS-Ras^{V12}/$impL2^{RNAi}$// h: w^{1118}
	H	Blue g: Nub-Gal4, Tub-$Gal80^{ts}$/+; UAS-$aPKC^{\Delta N}$, UAS-Ras^{V12}/+// h: w^{1118}
		Red g: Nub-Gal4, Tub-$Gal80^{ts}$/+; UAS-$aPKC^{\Delta N}$, UAS-Ras^{V12}/$impL2^{RNAi}$// h: w^{1118}
	I	Blue g: w^{1118}// h: 10xSTAT92E-GFP/10xSTAT92E-GFP; +/+
		Red g: Nub-Gal4, Tub-$Gal80^{ts}$/+; UAS-$aPKC^{\Delta N}$, UAS-Ras^{V12}/+// h: 10xSTAT92E-GFP/10xSTAT92E-GFP; +/+
	J	g: Nub-Gal4, Tub-$Gal80^{ts}$/+; UAS-$aPKC^{\Delta N}$, UAS-Ras^{V12}/+// h: 10xSTAT92E-GFP/10xSTAT92E-GFP; +/+
	K	Dome-Gal4/+; UAS-nls-GFP/+; +/+
S2	A	Blue 10xSTAT92E-GFP/10xSTAT92E-GFP; +/+
		Red 10xSTAT92E-GFP/10xSTAT92E-GFP; +/+
	B	Blue Esg-Gal4, UAS-GFP/+; Tub-$Gal80^{ts}$/+
		Red Esg-Gal4, UAS-GFP/+; Tub-$Gal80^{ts}$/UAS-yki^{3SA}
	C, D	Blue and red W^{1118}
	E	g: PBS// h: +/+; NrxIV-GFP/ NrxIV-GFP
	F	g: Nub-Gal4, Tub-$Gal80^{ts}$/+; UAS-$aPKC^{\Delta N}$, UAS-Ras^{V12}/+// h: +/+; NrxIV-GFP/ NrxIV-GFP
	G, H	Blue g: PBS// h: Nrg-GFP/ Nrg-GFP; +/+; +/+
		Red g: Nub-Gal4, Tub-$Gal80^{ts}$/+; UAS-$aPKC^{\Delta N}$, UAS-Ras^{V12}/+// h: Nrg-GFP/ Nrg-GFP; +/+; +/+
S3	A	Blue g: PBS// h: w^{1118}
		Red g: Nub-Gal4, Tub-$Gal80^{ts}$/+; UAS-$aPKC^{\Delta N}$, UAS-Ras^{V12}/+// h: w^{1118}
		Green g: Nub-Gal4, Tub-$Gal80^{ts}$/$upd3^{RNAi}$; UAS-$aPKC^{\Delta N}$, UAS-Ras^{V12}/$upd2^{RNAi}$// h: w^{1118}
	B	Blue g: Nub-Gal4, Tub-$Gal80^{ts}$/+; UAS-$aPKC^{\Delta N}$, UAS-Ras^{V12}/+// h: w^{1118}
		Red g: Nub-Gal4, Tub-$Gal80^{ts}$/$upd3^{RNAi}$; UAS-$aPKC^{\Delta N}$, UAS-Ras^{V12}/$upd2^{RNAi}$// h: w^{1118}
	C	Blue g: +/+; Nub-Gal4, Tub-$Gal80^{ts}$/+; UAS-$aPKC^{\Delta N}$, UAS-Ras^{V12}/+// h: w^{1118}
		Red g: UAS-Hop^{TumL}/+; Nub-Gal4, Tub-$Gal80^{ts}$/$upd3^{RNAi}$; UAS-$aPKC^{\Delta N}$, UAS-Ras^{V12}/$upd2^{RNAi}$// h: w^{1118}
	D	Blue Tub-$Gal80^{ts}$/+; Mef2-Gal4/+
		Red Tub-$Gal80^{ts}$/+; Mef2-Gal4/UAS-upd2
		Purple Tub-$Gal80^{ts}$/UAS-upd3; Mef2-Gal4/+
	E	g: Nub-Gal4, Tub-$Gal80^{ts}$/+; UAS-$aPKC^{\Delta N}$, UAS-Ras^{V12}/+// h: +/+; Tub-$Gal80^{ts}$/+; Moody-Gal4/+
	F	g: Nub-Gal4, Tub-$Gal80^{ts}$/+; UAS-$aPKC^{\Delta N}$, UAS-Ras^{V12}/+// h: $STAT^{RNAi}$/+; Tub-$Gal80^{ts}$/$STAT^{RNAi}$; Moody-Gal4/+
	G	Blue g: Nub-Gal4, Tub-$Gal80^{ts}$/+; UAS-$aPKC^{\Delta N}$, UAS-Ras^{V12}/+// h: 9-137-Gal4/+; Tub-$Gal80^{ts}$/+
		Red g: Nub-Gal4, Tub-$Gal80^{ts}$/+; UAS-$aPKC^{\Delta N}$, UAS-Ras^{V12}/+// h: 9-137-Gal4/$Dome^{RNAi}$; Tub-$Gal80^{ts}$/+
	H	Blue 9-137-Gal4/+; Tub-$Gal80^{ts}$/+
		Red 9-137-Gal4/$Dome^{RNAi}$; Tub-$Gal80^{ts}$/+
	I	Blue +/+; Tub-$Gal80^{ts}$/+; Moody-Gal4/+
		Red $STAT^{RNAi}$/+; Tub-$Gal80^{ts}$/$STAT^{RNAi}$; Moody-Gal4/+
	J, K	Blue +/+; Tub-$Gal80^{ts}$/+; Moody-Gal4/+
		Red +/+; Tub-$Gal80^{ts}$/$moody^{RNAi}$; Moody-Gal4/+
	L	Blue g: Nub-Gal4, Tub-$Gal80^{ts}$/$upd3^{RNAi}$; UAS-$aPKC^{\Delta N}$, UAS-Ras^{V12}/$upd2^{RNAi}$ h: +/+; Tub-$Gal80^{ts}$/+; Moody-Gal4/+

		Red g: Nub-Gal4, Tub-Gal80^{ts}/upd3^{RNAi}; UAS-aPKC$^{\Delta N}$, UAS-Ras^{V12}/upd2^{RNAi} *h: UAS-Hom^{TumL}/+; Tub-Gal80^{ts}/+; Moody-Gal4/+*
		Orange g: Nub-Gal4, Tub-Gal80^{ts}/+; UAS-aPKC$^{\Delta N}$, UAS-Ras^{V12}/+ *h: UAS-Hom^{TumL}/+; Tub-Gal80^{ts}/+; Moody-Gal4/+*
		Purple g: w^{1118} *h: UAS-Hom^{TumL}/+; Tub-Gal80^{ts}/+; Moody-Gal4/+*
S4	A	*g: PBS// h: C57BL/6J*
	B	*g: B16-F10// h: C57BL/6J// treatment: PBS*
	C	*g: B16-F10// h: C57BL/6J// treatment: anti-IL6R*
	D	*Blue g: PBS// h: C57BL/6J*
		Red g: B16-F10// h: C57BL/6J// treatment: PBS
		Green g: B16-F10// h: C57BL/6J// treatment: anti-IL6R
	E	*Blue g: PBS// h: w^{1118}*
		Red g: Nub-Gal4, Tub-Gal80^{ts}/+; UAS-aPKC$^{\Delta N}$, UAS-Ras^{V12}/+// h: w^{1118}