Supplementary Methods

Linear mixed model analysis

For most of the statistical analysis, we utilized linear mixed model (LMM) analysis. This approach estimates the effect size of each factor while accounting for intra- and inter-animal variability. LMMs were fitted with random intercepts to assess for the correlation between repeated measurements on the same mouse, and experiment-specific effects were analyzed for statistical significance. t values > 1.96 and < -1.96 were considered to be statistically significant and corresponded to 95% confidence intervals that did not cross zero. Each LMM examined both main fixed effects and interactions between the effects.

Experiments with a traditional 2 X 2 factorial design (including those for Figures 3-5) used LMM to examine fixed effects of CCI, 2-DG treatment, and the interaction between these two effects. To compare input-output curves in Figure 1, the fixed effects were current injection, 2-DG treatment, and the interaction between the two effects. LMM was also utilized to compare excitatory and inhibitory neurons in Figure 1, by examining cell type as the fixed effect.

In Figure 2, the statistical approach also paralleled the experimental design. The primary experimental question was whether synaptic activity onto interneurons was altered acutely after CCI (as this had not been shown previously); thus "Stage 1" of the statistical approach was to examine CCI as the solitary fixed effect. Then, in "Stage 2" of the experiment and statistical analysis, we examined the effects of in vitro 2-DG wash-on to slices taken from either CCI or sham animals (and thus used both CCI and 2-DG as fixed effects).

In Figure 6, there was another fixed effect (ROI), introduced as a categorical variable. We performed LMM with fixed effects of CCI, 2-DG, ROI, and interactions between each of these.

Comparisons were made with ROI5 (the furthest region from the CCI lesion) as the reference point. To further interpret these complex results, we utilized LMM with the Type III analysis of variance (ANOVA) test with Satterthwaite's method to assess the global significance of "ROI" as a single factor instead of each ROI as an independent factor relative to ROI5. Thus, the Type III ANOVA reports global effects across all ROIs (Table S2).

Cumulative distribution generation

Cumulative distributions were generated by randomly selecting 100 events from each recording to ensure that data from more active cells were not more heavily weighted than data from cells with fewer events. Random event selection was accomplished using a custom-written MATLAB script. Within each treatment group, randomly selected events from each cell were pooled to generate a single cumulative distribution, and distributions were compared using a 2-sample Kolmogorov-Smirnov (K-S) test. To account for the large degrees of freedom associated with comparing distributions and to prevent false positives, we decreased α to 0.001. We further corrected for repeated comparisons when doing multiple 2-sample K-S tests on the same data set by dividing α by 6 possible comparisons across the four treatment groups (final $\alpha = 1.67E-4$).

Supplementary Figures



Figure S1: Characterization of *G***42 mouse line. A.** Immunohistochemical labeling of genetically-encoded GFP (green) in the somatosensory cortex (SSC) of adult *G*42 mice. **B.** Colabeling of GFP in *G*42 mice with markers of inhibitory interneurons in layers V-VI of SSC (**i**. GAD67, **ii**. Parvalbumin (PV), **iii**. Somatostatin (SST), **iv**. Calretinin (CR)). **C.** Table showing abundant co-labeling of GFP+ cells with PV and GAD67. (n=4 mice)



Figure S2: Treatment with Low Glucose (LG)-aCSF did not affect the excitability of excitatory or inhibitory neurons. A-B. Representative traces following current injection into layer V cortical excitatory pyramidal neurons (A) or interneurons (B) before (black) or after (green) treating the cortical slice with LG-aCSF for 10 minutes. C-D. Input-output curves in excitatory (C) or inhibitory (D) neurons. E. Rheobase (current injection required to fire the first action potential) before (black) and after (green) LG-aCSF treatment in each cell type. F.

Membrane resistance before and after LG-aCSF in each cell type. **G.** Resting membrane potential (RMP) before and after LG-aCSF treatment in each cell type. **H.** Δ Rheobase (rheobase in LG-aCSF versus baseline) in excitatory neurons and interneurons. **I.** % change in membrane resistance of excitatory neurons and interneurons following LG-aCSF treatment. **J.** Change in resting membrane potential (RMP) in excitatory neurons and interneurons in LG-aCSF. (Error bar = SEM. n=10 excitatory neurons from 5 animals, 8 inhibitory neurons from 5 animals. n.s. not significant.)



Figure S3: Low glucose (LG) conditions do not attenuate epileptiform activity following CCI. A. Representative stimulus-evoked field potentials in an acute cortical slice 3-5 weeks following CCI surgery. **B-C.** Area (B) and coastline (C) measurements from fEPSPs from CCI-injured animals with or without 30 minutes of LG-aCSF. **D.** The percentage of sweeps exhibiting epileptiform activity in slices from CCI animals with or without LG-aCSF treatment. (Error bar = SEM. n=10 slices from 4 animals. n.s. not significant.)



Figure S4: 2-DG has no effect on daily blood glucose, blood β -hydroxybutyrate, temperature, body weight, or food intake during a week-long dosing regimen. Animals were injected daily with 2-DG or vehicle. Shown are blood glucose (A), β -hydroxybutyrate (B), flank temperature (C), body weight (D), and daily food intake (E) measured immediately prior to each daily injection. (Error bar = SEM. n=6 animals/group.)



Figure S5: CCI and in vivo 2-DG treatment have complex effects on miniature synaptic activity. A. Mean mEPSC frequency. **B-C.** Cumulative distributions of mEPSC inter-event interval. **D.** Mean mEPSC amplitude. **E-F.** mEPSC amplitude cumulative distributions. **G.** Mean mIPSC frequency. **H-I.** Cumulative distributions of mIPSC inter-event interval. **J.** Mean mIPSC amplitude. **K-L.** Cumulative distributions of mIPSC amplitude. (Error bar = SEM. n = 19-21 cells from 5 animals/group. LMM: *t > ±1.96, effect: CCI; #t > ±1.96, effect: interaction between CCI and 2-DG. 2-sample K-S test corrected for multiple comparisons: ^^p < 1E-5)

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Interaction CCV2-DG 2.849 2.0781 1.371 Interaction CCV2-DG -5.487 2.21 -2.483 V Description Units: cells/10_000 V		from 5 animals/group	2-DG (in vivo)	-0.258	1.4203	-0.182	2-DG (in vivo)	2.97	1.533	1.938	
6 Network Section Columnation Co			Interaction CCI/2-DG	2.8493	2.0781	1.371	Interaction CCI/2-DG	-5.487	2.21	-2.483 *	
Matrix cells/10_000 µm ² CUrits: cells/10_000 µm ² Curits: cells/10_000 µm ² Curits: cells/10_000 µm ² Interaction CC/ROI1 1.1771 0.2083 3.6301 * Interaction CC/ROI2 1.065 0.2567 -6.487 * Interaction CC/ROI2 1.1148 0.2083 -6.513 * Interaction CC/ROI2 1.027 0.2567 -4.87 * Interaction CC/ROI2 -1.148 0.2083 -3.271 * Interaction CC/ROI3 -0.4762 0.2567 -1.85<											
6 Interaction CC/ROI1 -1.771 0.2083 -8.501 * Interaction CC/ROI1 -1.666 0.2567 -6.487 * 3 slices analyzed to generate 1 average value per animal Interaction CC/ROI2 -1.148 0.2083 -3.513 * Interaction CC/ROI2 -1.027 0.2567 -4 * 3 slices analyzed to generate 1 average value per animal Interaction CC/ROI4 -0.4185 0.2083 -2.009 * Interaction CC/ROI4 -0.4875 0.2987 -0.926 - - - - - 1.855 - - - - - - - - - - 1.857 - <td< td=""><th></th><td></td><td></td><td>PV+ Densi</td><td>ty</td><td></td><td></td><td>tdT+ Densit</td><td>ty</td><td></td></td<>				PV+ Densi	ty			tdT+ Densit	ty		
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Bit Relation CVI/CVP 0.4103 0.4203 2.203 Interaction CVI/CVP 0.4204 0.4205 9 3 slices analyzed to generate 1 average value per animal Interaction CCV/2-DG/ROI1 0.1111 0.2997 3.037 Interaction CCV/2-DG/ROI2 0.3693 1.44 9 per animal Interaction CCV/2-DG/ROI3 0.0297 3.037 Interaction CCV/2-DG/ROI3 0.6053 0.3693 1.44 1 Interaction CCV/2-DG/ROI4 0.4751 0.2997 3.537 Interaction CCV/2-DG/ROI3 0.6053 0.3693 1.639 1 Interaction CCV/2-DG/ROI4 0.4751 0.2997 1.585 Interaction CCV/2-DG/ROI3 0.6053 0.3693 0.159 1 Interaction CCV/2-DG/ROI4 0.4751 0.2997 1.585 Interaction CCV/2-DG/ROI4 0.5779 0.3693 0.169 Sham+Veh: 5 animals Interaction CCV/2-DG/ROI4 0.4751 0.2997 1.585 Interaction CCVROI4 0.5779 0.3684 0.615 Interaction CCV/ROI7 1.189 0.1829 -5.011 Interaction CCVROI1 0.36			Interaction CCI/ROI1 Interaction CCI/ROI2 Interaction CCI/ROI3	PV+ Densi Units: cells/10,0 -1.771 -1.148 -0.6815	ty 00 μm ² 0.2083 0.2083 0.2083	-8.501 * -5.513 * -3.271 *	Interaction CCI/ROI1 Interaction CCI/ROI2 Interaction CCI/ROI3	tdT+ Densit Units: cells/10,00 -1.665 -1.027 -0.4762	ty 00 μm ² 0.2567 0.2567 0.2567	-6.487 * -4 *	
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Interaction CCV/2-DG/ROI2 0.3103 0.2597 3.037 Interaction CCV/2-DG/ROI2 0.3893 1.44 6 per animal hteraction CCV/2-DG/ROI3 0.7652 0.2997 2.553 Interaction CCV/2-DG/ROI3 0.6053 0.3693 1.649 5 Sham+Veh: 5 animals PV+ tdT+ Colcalized Density Units: cells/10.000 µm ² Interaction CCV/2-DG/ROI4 0.4751 0.2997 1.585 Interaction CCV/2-DG/ROI4 0.6053 0.3693 1.639 CCI+Veh: 7 animals CCI+Veh: 7 animals Interaction CCV/ROI4 0.4751 0.2997 1.585 Interaction CCV/ROI4 0.05684 6.419 * Interaction CCV/ROI2 0.9167 0.1829 -7.614 Interaction CCV/ROI2 0.91684 3.365 * Interaction CCVROI2 0.9167 0.1829 -2.856 Interaction CCV/ROI2 0.91818 0.05684 0.3655 * Interaction CCV/ROI4 0.761 0.2632 2.892 Interaction CCV/ROI3 0.091818 0.05684 0.481 Interaction CCV/2-DG/ROI4 0.05429 0.6432 0.632 <th< td=""><th></th><td>3 slipse analyzed to</td><td>Interaction CC/ROI1 Interaction CC/ROI2 Interaction CC/ROI3 Interaction CC/ROI4 Interaction CC/ROI4</td><td>PV+ Densi Units: cells/10,0 -1.771 -1.148 -0.6815 -0.4185 1 111</td><td>ty 00 μm² 0.2083 0.2083 0.2083 0.2083 0.2083</td><td>-8.501 * -5.513 * -3.271 * -2.009 * 3.707 *</td><td>Interaction CCI/ROI1 Interaction CCI/ROI2 Interaction CCI/ROI3 Interaction CCI/ROI4 Interaction CCI/ROI4</td><td>tdT+ Densii Units: cells/10,00 -1.665 -1.027 -0.4762 -0.2377 0.8347</td><td>ty 00 µm² 0.2567 0.2567 0.2567 0.2567 0.2567</td><td>-6.487 * -4 * -1.855 -0.926 2.233 *</td></th<>		3 slipse analyzed to	Interaction CC/ROI1 Interaction CC/ROI2 Interaction CC/ROI3 Interaction CC/ROI4 Interaction CC/ROI4	PV+ Densi Units: cells/10,0 -1.771 -1.148 -0.6815 -0.4185 1 111	ty 00 μm ² 0.2083 0.2083 0.2083 0.2083 0.2083	-8.501 * -5.513 * -3.271 * -2.009 * 3.707 *	Interaction CCI/ROI1 Interaction CCI/ROI2 Interaction CCI/ROI3 Interaction CCI/ROI4 Interaction CCI/ROI4	tdT+ Densii Units: cells/10,00 -1.665 -1.027 -0.4762 -0.2377 0.8347	ty 00 µm ² 0.2567 0.2567 0.2567 0.2567 0.2567	-6.487 * -4 * -1.855 -0.926 2.233 *	
Per aminear Interaction CCV/2-DG/ROI3 0.7632 0.2937 Interaction CCV/2-DG/ROI3 0.0505 0.3693 1.639 6 Sham+Veh: 5 animals Interaction CCV/2-DG/ROI4 0.4751 0.2997 1.585 Interaction CCV/2-DG/ROI3 0.05759 0.3693 0.159 Sham+Veh: 5 animals PV+ tdT+ Colocalized Density Interaction CCV/2-DG/ROI4 0.6779 0.3693 0.159 CCI+Veh: 7 animals Interaction CCV/2-DG/ROI1 1.333 0.1829 -7.614 Interaction CCVROI1 0.36487 0.05684 6.419 * Interaction CCVROI2 -0.9167 0.1829 -7.614 Interaction CCVROI2 0.191243 0.05684 3.365 * Interaction CCVROI2 -0.9167 0.1829 -2.856 Interaction CCVROI2 0.191243 0.05684 0.615 Interaction CCVROI3 0.0522 0.1829 -2.856 Interaction CCVROI4 0.027345 0.05684 0.481 Interaction CCV/2-DG/ROI4 0.761 0.2632 2.6616 Interaction CCV/2-DG/ROI1 0.336425 0.081767 -1.10		3 slices analyzed to	Interaction CC//RO11 Interaction CC//RO12 Interaction CC//RO13 Interaction CC//RO14 Interaction CC//RO14 Interaction CC//RO12102/12012	PV+ Densi Units: cells/10,0 -1.771 -1.148 -0.6815 -0.4185 1.111	ty 00 μm ² 0.2083 0.2083 0.2083 0.2083 0.2083 0.2097 0.2097	-8.501 * -5.513 * -3.271 * -2.009 * 3.707 *	Interaction CCI/ROI1 Interaction CCI/ROI2 Interaction CCI/ROI3 Interaction CCI/ROI4 Interaction CCI/2-DG/ROI1	tdT+ Densit Units: cells/10.00 -1.665 -1.027 -0.4762 -0.2377 0.8247	ty 00 µm ² 0.2567 0.2567 0.2567 0.2567 0.3693 0.2502	-6.487 * -4 * -1.855 -0.926 2.233 *	
6 Sham+Veh: 5 animals PITERACTION CC//2-DG/ROIA 0.4761 0.2997 1.385 Interaction CC//2-DG/ROIA 0.05779 0.3693 0.156 Sham+Veh: 5 animals PV+ tdT+ Colocalized Density Ratio of tdT+ Cells Lacking PV+ Units: ratio Units: ratio Units: ratio Units: ratio Units: ratio Units: ratio 0.05684 6.419 * CCI+v2-DG: 6 animals Interaction CC//ROI2 -0.9167 0.1829 -7.614 * Interaction CC//ROI2 0.05684 6.419 * Interaction CC//ROI2 -0.9167 0.1829 -7.614 * Interaction CC//ROI2 0.05684 6.419 * Interaction CC//ROI2 -0.9167 0.1829 -7.614 * Interaction CC//ROI2 0.919148 0.05684 6.419 * Interaction CC//ROI2 -0.9167 0.1829 -7.614 * Interaction CC//ROI2 0.919148 0.05684 6.419 * Interaction CC//ROI2 -0.9167 0.1829 -1.825 Interaction CC//ROI4 0.027345 0.0918148 0.6864		3 slices analyzed to generate 1 average value	Interaction CC//ROI1 Interaction CC//ROI2 Interaction CC//ROI3 Interaction CC//ROI4 Interaction CC//2-DG/ROI1 Interaction CC//2-DG/ROI2	PV+ Densi Units: cells/10,0 -1.771 -1.148 -0.6815 -0.4185 1.111 0.9103 0.7552	ty 00 μm ² 0.2083 0.2083 0.2083 0.2083 0.2083 0.2097 0.2997 0.2997	-8.501 * -5.513 * -3.271 * -2.009 * 3.707 * 3.037 *	Interaction CCI/ROI1 Interaction CCI/ROI2 Interaction CCI/ROI3 Interaction CCI/ROI3 Interaction CCI/2-DG/ROI1 Interaction CCI/2-DG/ROI2 Interaction CCI/2-DG/ROI2	tdT+ Densit Units: cells/10,00 -1.665 -1.027 -0.4762 -0.2377 0.8247 0.532 0.0572	ty 00 µm ² 0.2567 0.2567 0.2567 0.2567 0.3693 0.3693 0.3693	-6.487 * -4 * -1.855 -0.926 2.233 * 1.44 1.620	
Ratio of ta1+ Colspan="4">Colspan="4" Colspan="4" Colspan="4" Colspan="4" Colspan="4" Colspan="4" Colspan="4" <th colspan="</td> <th></th> <td>3 slices analyzed to generate 1 average value per animal</td> <td>Interaction CCVROI1 Interaction CCVROI2 Interaction CCVROI3 Interaction CCVROI4 Interaction CCV2-DG/ROI1 Interaction CCV2-DG/ROI2 Interaction CCV2-DG/ROI3</td> <td>PV+ Densi Units: cells/10,0 -1.771 -1.148 -0.6815 -0.4185 1.111 0.9103 0.7652</td> <td>ty 00 μm² 0.2083 0.2083 0.2083 0.2083 0.2083 0.2097 0.2997 0.2997 0.2997</td> <td>-8.501 * -5.513 * -3.271 * -2.009 * 3.707 * 3.037 * 2.553 *</td> <td>Interaction CC/ROI1 Interaction CC/ROI2 Interaction CC/ROI3 Interaction CC/ROI4 Interaction CC/2-DG/ROI1 Interaction CC/2-DG/ROI2 Interaction CC/2-DG/ROI3 Interaction CC/2-DG/ROI3</td> <td>tdT+ Densit Units: cells/10,00 -1.665 -1.027 -0.4762 -0.2377 0.8247 0.532 0.6053 0.6053</td> <td>ty 00 µm² 0.2567 0.2567 0.2567 0.2567 0.3693 0.3693 0.3693 0.3693</td> <td>-6.487 * -4 * -0.926 2.233 * 1.44 1.639 0.456</td>		3 slices analyzed to generate 1 average value per animal	Interaction CCVROI1 Interaction CCVROI2 Interaction CCVROI3 Interaction CCVROI4 Interaction CCV2-DG/ROI1 Interaction CCV2-DG/ROI2 Interaction CCV2-DG/ROI3	PV+ Densi Units: cells/10,0 -1.771 -1.148 -0.6815 -0.4185 1.111 0.9103 0.7652	ty 00 μm ² 0.2083 0.2083 0.2083 0.2083 0.2083 0.2097 0.2997 0.2997 0.2997	-8.501 * -5.513 * -3.271 * -2.009 * 3.707 * 3.037 * 2.553 *	Interaction CC/ROI1 Interaction CC/ROI2 Interaction CC/ROI3 Interaction CC/ROI4 Interaction CC/2-DG/ROI1 Interaction CC/2-DG/ROI2 Interaction CC/2-DG/ROI3 Interaction CC/2-DG/ROI3	tdT+ Densit Units: cells/10,00 -1.665 -1.027 -0.4762 -0.2377 0.8247 0.532 0.6053 0.6053	ty 00 µm ² 0.2567 0.2567 0.2567 0.2567 0.3693 0.3693 0.3693 0.3693	-6.487 * -4 * -0.926 2.233 * 1.44 1.639 0.456	
Snam+2-UG: 3 animals Units: cells/10.000 µm* Volts: ratio CCI+Veh: 7 animals Interaction CCVR01 -1.393 0.0829 -7.614 * Interaction CCVR01 0.364877 0.05684 3.365 * CCI+Veh: 7 animals Interaction CCVR012 0.09176 0.1829 -5.011 * Interaction CCVR012 0.091818 0.05684 3.365 * Interaction CCVR012 0.09181 0.05684 0.62632 0.1829 -2.856 * Interaction CCVR012 0.091818 0.05684 1.615 Interaction CCVR014 -0.248 0.1829 -1.356 Interaction CCVR014 0.027345 0.081767 -4.114 * Interaction CCV/2-DG/R01 0.62632 2.663 * Interaction CCV2-DG/R014 -0.139133 0.081767 -1.925 Interaction CCV/2-DG/R014 0.2632 2.661 * Interaction CCV2-DG/R014 -0.139133 0.081767 -1.702 Interaction CCV/2-DG/R014 0.2632 0.6897 Interaction CCV2-DG/R014 -0.087048 0.081767 -1.002 Interaction CCV/2-DG/R014 0.2632 0.6897 Interaction CCV2-DG/R01	6	3 slices analyzed to generate 1 average value per animal	Interaction CCI/ROI1 Interaction CCI/ROI2 Interaction CCI/ROI3 Interaction CCI/ROI4 Interaction CCI/2-DG/ROI1 Interaction CCI/2-DG/ROI3 Interaction CCI/2-DG/ROI3	PV+ Densi Units: cells/10,0 -1.771 -1.148 -0.6815 -0.4185 1.111 0.9103 0.7652 0.4751	ty 00 µm ² 0.2083 0.2083 0.2083 0.2083 0.2093 0.2997 0.2997 0.2997 0.2997	-8.501 * -5.513 * -3.271 * -2.009 * 3.707 * 3.037 * 2.553 * 1.585	Interaction CCI/ROI1 Interaction CCI/ROI2 Interaction CCI/ROI3 Interaction CCI/ROI3 Interaction CCI/2-DG/ROI1 Interaction CCI/2-DG/ROI2 Interaction CCI/2-DG/ROI3 Interaction CCI/2-DG/ROI3	tdT+ Densit Units: cells/10,00 -1.665 -1.027 -0.4762 -0.2377 0.8247 0.532 0.6053 0.5779	y 0.2567 0.2567 0.2567 0.2567 0.3693 0.3693 0.3693 0.3693	-6.487 * -4 * -1.855 -0.926 2.233 * 1.44 1.639 0.156	
CCHVen: / animals Interaction CC/RO11 -1.333 0.1829 -7.514 Interaction CC/RO11 0.36487 0.05684 6.419 CCHv2-DG: 6 animals Interaction CC/RO12 -0.9167 0.1829 -7.514 Interaction CC/RO12 0.05684 3.365 Interaction CC/RO12 0.01829 -0.9167 0.1829 -2.856 Interaction CC/RO13 0.091243 0.05684 1.615 Interaction CC/RO14 -0.2248 0.1829 -2.856 Interaction CC/RO14 0.091848 0.05684 0.6419 Interaction CC/RO14 -0.248 0.1829 -1.356 Interaction CC/2-DG/RO1 0.0336425 0.081767 -4.114 Interaction CC/2-DG/RO12 0.05684 0.6292 2.6616 Interaction CC/2-DG/RO14 0.081767 -1.925 Interaction CC/2-DG/RO14 0.2361 0.2632 2.616 Interaction CC/2-DG/RO14 0.081767 -1.702 Interaction CC/2-DG/RO14 0.2361 0.2632 0.897 Interaction CC/2-DG/RO14 -0.087048 0.081767 -1.065 <th>6</th> <td>3 slices analyzed to generate 1 average value per animal Sham+Veh: 5 animals</td> <td>Interaction CCI/ROI1 Interaction CCI/ROI2 Interaction CCI/ROI3 Interaction CCI/ROI4 Interaction CCI/2-DG/ROI1 Interaction CCI/2-DG/ROI3 Interaction CCI/2-DG/ROI3 Interaction CCI/2-DG/ROI4 PV-</td> <td>PV+ Densi Units: cells/10.0 -1.771 -1.148 -0.6815 -0.4185 1.111 0.9103 0.7652 0.4751 t dT+ Colocaliz</td> <td>ty 00 µm² 0.2083 0.2083 0.2083 0.2083 0.2083 0.2997 0.2997 0.2997 0.2997 0.2997 0.2997</td> <td>-8.501 * -5.513 * -3.271 * -2.009 * 3.707 * 3.037 * 2.553 * 1.585</td> <td>Interaction CCI/ROI1 Interaction CCI/ROI2 Interaction CCI/ROI3 Interaction CCI/ROI3 Interaction CCI/2-DG/ROI1 Interaction CCI/2-DG/ROI2 Interaction CCI/2-DG/ROI3 Interaction CCI/2-DG/ROI3 Interaction CCI/2-DG/ROI4 Rat</td> <td>tdT+ Densii Units: cells/10,00 -1.665 -1.027 -0.4762 -0.2377 0.8247 0.532 0.6053 0.5779 io of tdT+ Cells L</td> <td>y 0.2567 0.2567 0.2567 0.2567 0.2567 0.3693 0.3693 0.3693 0.3693 acking PV+</td> <td>-6.487 * -4 * -0.926 2.233 * 1.44 1.639 0.156</td>	6	3 slices analyzed to generate 1 average value per animal Sham+Veh: 5 animals	Interaction CCI/ROI1 Interaction CCI/ROI2 Interaction CCI/ROI3 Interaction CCI/ROI4 Interaction CCI/2-DG/ROI1 Interaction CCI/2-DG/ROI3 Interaction CCI/2-DG/ROI3 Interaction CCI/2-DG/ROI4 PV-	PV+ Densi Units: cells/10.0 -1.771 -1.148 -0.6815 -0.4185 1.111 0.9103 0.7652 0.4751 t dT+ Colocaliz	ty 00 µm ² 0.2083 0.2083 0.2083 0.2083 0.2083 0.2997 0.2997 0.2997 0.2997 0.2997 0.2997	-8.501 * -5.513 * -3.271 * -2.009 * 3.707 * 3.037 * 2.553 * 1.585	Interaction CCI/ROI1 Interaction CCI/ROI2 Interaction CCI/ROI3 Interaction CCI/ROI3 Interaction CCI/2-DG/ROI1 Interaction CCI/2-DG/ROI2 Interaction CCI/2-DG/ROI3 Interaction CCI/2-DG/ROI3 Interaction CCI/2-DG/ROI4 Rat	tdT+ Densii Units: cells/10,00 -1.665 -1.027 -0.4762 -0.2377 0.8247 0.532 0.6053 0.5779 io of tdT+ Cells L	y 0.2567 0.2567 0.2567 0.2567 0.2567 0.3693 0.3693 0.3693 0.3693 acking PV+	-6.487 * -4 * -0.926 2.233 * 1.44 1.639 0.156	
CCH+2-UG: 6 animals Interaction CC//ROI2 -0.9167 0.1829 -5.011 Interaction CC//ROI2 0.191243 0.05684 3.365 * Interaction CC//ROI3 -0.5225 0.1829 -2.856 Interaction CC//ROI3 0.05684 0.05684 0.65684 1.615 Interaction CC//ROI4 -0.248 0.829 -2.856 Interaction CC//ROI3 0.05684 0.05684 0.481 Interaction CC//ROI4 -0.248 0.829 -2.856 Interaction CC//ROI4 0.027345 0.05684 0.481 Interaction CC//2-DG/ROI1 0.761 0.2632 2.892 Interaction CC//2-DG/ROI4 -0.336425 0.081767 -1.14 Interaction CC//2-DG/ROI2 0.5429 0.2632 2.063 Interaction CC//2-DG/ROI3 0.081767 -1.702 Interaction CC//2-DG/ROI4 0.02361 0.2632 0.687 Interaction CC//2-DG/ROI3 0.081767 -1.702 Interaction CC//2-DG/ROI4 0.2361 0.2632 0.897 Interaction CC//2-DG/ROI4 -0.087048 0.081767 -1.702	6	3 slices analyzed to generate 1 average value per animal Sham+Veh: 5 animals Sham+2-DG: 5 animals	Interaction CCI/ROI1 Interaction CCI/ROI2 Interaction CCI/ROI3 Interaction CCI/ROI4 Interaction CCI/2-DG/ROI1 Interaction CCI/2-DG/ROI3 Interaction CCI/2-DG/ROI3 Interaction CCI/2-DG/ROI4 PV-	PV+ Densi Units: cells/10,0 -1.771 -1.148 -0.6815 -0.4185 1.111 0.9103 0.7652 0.4751 - tdT+ Colocaliz Units: cells/10,0	ty 00 µm ² 0.2083 0.2083 0.2083 0.2083 0.2097 0.2997 0.2997 0.2997 ed Density 00 µm ²	-8.501 * -5.513 * -3.271 * -2.009 * 3.707 * 3.037 * 2.553 * 1.585	Interaction CCI/ROI1 Interaction CCI/ROI2 Interaction CCI/ROI3 Interaction CCI/ROI3 Interaction CCI/2-DG/ROI1 Interaction CCI/2-DG/ROI3 Interaction CCI/2-DG/ROI3 Interaction CCI/2-DG/ROI3	tdT+ Densit Units: cells/10,00 -1.665 -1.027 -0.4762 -0.2377 0.8247 0.532 0.6053 0.5779 io of tdT+ Cells Li Units: ratio	y 0.2567 0.2567 0.2567 0.2567 0.2567 0.3693 0.3693 0.3693 0.3693 0.3693 0.3693	-6.487 * -4 * -0.926 2.233 * 1.44 1.639 0.156	
Interaction CC//ROI3 -0.5225 0.1829 -2.856 Interaction CC//ROI3 0.091818 0.05684 1.615 Interaction CC//ROI4 -0.248 0.1829 -1.356 Interaction CC//ROI4 0.027345 0.05684 0.481 Interaction CC//2-DG/ROI1 0.761 0.6263 2.892 Interaction CC//2-DG/ROI1 -0.336425 0.081767 -4.114 * Interaction CC//2-DG/ROI2 0.5429 0.2632 2.063 Interaction CC//2-DG/ROI2 0.0157418 0.081767 -4.114 * Interaction CC//2-DG/ROI2 0.5684 0.2632 2.063 Interaction CC//2-DG/ROI2 0.0157418 0.081767 -1.702 Interaction CC//2-DG/ROI4 0.2632 0.687 0.897 -1.005 -1.005 Interaction CC//2-DG/ROI4 0.2632 0.897 Interaction CC//2-DG/ROI4 0.081767 -1.002	6	3 slices analyzed to generate 1 average value per animal Sham+Veh: 5 animals Sham+2-DG: 5 animals CCI+Veh: 7 animals	Interaction CCI/ROI1 Interaction CCI/ROI2 Interaction CCI/ROI3 Interaction CCI/ROI4 Interaction CCI/2-DG/ROI1 Interaction CCI/2-DG/ROI3 Interaction CCI/2-DG/ROI3 Interaction CCI/2-DG/ROI4 PV-	PV+ Densi Units: cells/10,0 -1.771 -1.771 -0.6815 -0.4185 1.111 0.9103 0.7652 0.4751 t IdT+ Colocaliz Units: cells/10,0 -1.393	ty 00 µm ² 0.2083 0.2083 0.2083 0.2083 0.2097 0.2997	-8.501 * -5.513 * -3.271 * -2.009 * 3.707 * 3.037 * 2.553 * 1.585 -7.614 *	Interaction CCI/ROI1 Interaction CCI/ROI2 Interaction CCI/ROI3 Interaction CCI/ROI3 Interaction CCI/2-DG/ROI1 Interaction CCI/2-DG/ROI2 Interaction CCI/2-DG/ROI3 Interaction CCI/2-DG/ROI3 Interaction CCI/2-DG/ROI3 Interaction CCI/2-DG/ROI3	tdT+ Densit Units: cells/10.00 -1.665 -1.027 -0.4762 -0.2377 0.8247 0.632 0.6053 0.5779 to of tdT+ Cells Li Units: ratio 0.364877	y 0) µm ² 0.2567 0.2567 0.2567 0.3693 0.3693 0.3693 0.3693 0.3693 acking PV+	-6.487 * -4 * -1.855 -0.926 2.233 * 1.44 1.639 0.156 	
Interaction CC//ROI4 -0.248 0.1829 -1.356 Interaction CC//ROI4 0.027345 0.05684 0.481 Interaction CC//2-DG/ROI1 0.761 0.2632 2.892 Interaction CC//2-DG/ROI1 -0.336425 0.081767 -4.114 * Interaction CC//2-DG/ROI2 0.5429 0.2632 2.063 * Interaction CC//2-DG/ROI2 -0.157418 0.081767 -1.925 Interaction CC//2-DG/ROI3 0.6844 0.2632 2.616 * Interaction CC//2-DG/ROI3 0.081767 -1.702 Interaction CC//2-DG/ROI4 0.2632 0.6897 Interaction CC//2-DG/ROI4 -0.087048 0.081767 -1.005	6	3 slices analyzed to generate 1 average value per animal Sham+Veh: 5 animals Sham+2-DG: 5 animals CCI+Veh: 7 animals CCI+2-DG: 6 animals	Interaction CC/ROI1 Interaction CC/ROI2 Interaction CC/ROI3 Interaction CC/ROI4 Interaction CC/2-DG/ROI1 Interaction CC/2-DG/ROI2 Interaction CC/2-DG/ROI3 Interaction CC/2-DG/ROI3 Interaction CC/2-DG/ROI4 Interaction CC/ROI1 Interaction CC/ROI1	PV+ Densi Units: cells/10.0 -1.771 -1.148 -0.6815 -0.4185 1.111 0.9103 0.7652 0.4751 t UT+ Colocaliz Units: cells/10.0 -1.393 -0.9167	ty 00 μm ² 0.2083 0.2083 0.2083 0.2083 0.2997 0.2997 0.2997 0.2997 0.2997 0.2997 0.2997 0.2997 0.2997 0.2997 0.2197 0.2192 0.2182 0.01829 0.1829	-8.501 * -5.513 * -2.271 * -2.009 * 3.707 * 3.037 * 2.553 * 1.585 -7.614 * -5.011 *	Interaction CCI/ROI1 Interaction CCI/ROI2 Interaction CCI/ROI3 Interaction CCI/ROI3 Interaction CCI/2-DG/ROI1 Interaction CCI/2-DG/ROI3 Interaction CCI/2-DG/ROI3 Interaction CCI/2-DG/ROI4 Rat Interaction CCI/ROI1 Interaction CCI/ROI1	tdT+ Densit Units: cells/10,00 -1.665 -1.027 -0.4762 -0.2377 0.8247 0.532 0.6053 0.5779 L Units: ratio 0.364877 0.191243	y 00 µm ² 0.2567 0.2567 0.2567 0.3693 0	-6.487 * -4 * -1.855 -0.926 2.233 * 1.44 1.639 0.156 	
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Interaction CCV/2-DG/ROI2 0.5429 0.2632 2.063 Interaction CCV/2-DG/ROI2 -0.157418 0.081767 -1.925 Interaction CCV/2-DG/ROI3 0.6884 0.2632 2.616 Interaction CCV/2-DG/ROI3 -0.139133 0.081767 -1.702 Interaction CCV/2-DG/ROI4 0.2361 0.2632 0.897 Interaction CCV/2-DG/ROI4 -0.087048 0.081767 -1.005	6	3 slices analyzed to generate 1 average value per animal Sham+Veh: 5 animals Sham+2-DG: 5 animals CCI+Veh: 7 animals CCI+2-DG: 6 animals	Interaction CCI/ROI1 Interaction CCI/ROI2 Interaction CCI/ROI3 Interaction CCI/ROI4 Interaction CCI/2-DG/ROI1 Interaction CCI/2-DG/ROI3 Interaction CCI/2-DG/ROI3 Interaction CCI/2-DG/ROI3 Interaction CCI/ROI1 Interaction CCI/ROI1 Interaction CCI/ROI3 Interaction CCI/ROI3	PV+ Densi Units: cells/10,0 -1.771 -1.148 -0.6815 -0.4185 1.111 0.9103 0.7652 0.4751 td1+ Colcaliz Units: cells/10,0 -1.393 -0.9167 -0.5225 -0.248	ty 00 µm ² 0.2083 0.2083 0.2083 0.2093 0.2997 0.1829	-8.501 * -5.513 * -3.271 * -2.009 * 3.707 * 3.037 * 2.553 * 1.585 * -7.614 * -5.011 * -2.856 * -1.356 *	Interaction CCI/ROI1 Interaction CCI/ROI2 Interaction CCI/ROI2 Interaction CCI/ROI3 Interaction CCI/ROI3 Interaction CCI/2-DG/ROI1 Interaction CCI/2-DG/ROI3 Interaction CCI/2-DG/ROI3 Interaction CCI/ROI4 Interaction CCI/ROI1 Interaction CCI/ROI2 Interaction CCI/ROI2 Interaction CCI/ROI3 Interacti0 Interaction CCI/ROI4 InteractioN	tdT+ Densit Units: cells/10.00 -1.665 -1.027 -0.4762 -0.2377 0.8247 0.6053 0.5779 0 dtdT- Cells Li Units: ratio 0.364877 0.391243 0.091818 0.027345	y 00 µm ² 0.2567 0.2567 0.2567 0.2567 0.3693 0	-6.487 * -4 * -0.926 2.233 * 1.44 1.639 0.156 6.419 * 3.365 * 1.615 0.481	
Interaction CC//2-DG/ROI3 0.6884 0.2632 2.616 Interaction CC//2-DG/ROI3 -0.139133 0.081767 -1.702 Interaction CC//2-DG/ROI4 0.2361 0.2361 0.2632 0.897 Interaction CC//2-DG/ROI4 -0.087048 0.081767 -1.005	6	3 slices analyzed to generate 1 average value per animal Sham+Veh: 5 animals Sham+2-DG: 5 animals CCI+Veh: 7 animals CCI+2-DG: 6 animals	Interaction CCI/ROI1 Interaction CCI/ROI2 Interaction CCI/ROI3 Interaction CCI/ROI3 Interaction CCI/2-DG/ROI1 Interaction CCI/2-DG/ROI3 Interaction CCI/2-DG/ROI3 Interaction CCI/2-DG/ROI1 Interaction CCI/ROI1 Interaction CCI/ROI1 Interaction CCI/ROI3 Interaction CCI/ROI3 Interaction CCI/ROI3 Interaction CCI/ROI3	PV+ Densi Units: cells/10,0 -1.771 -1.148 -0.6815 -0.4185 1.111 0.9103 0.7652 0.4751 t dT+ Colocaliz -t dT+ Colocaliz Units: cells/10,0 -1.393 -0.9167 -0.5225 -0.248 0.761	ty 00 µm ² 0.2083 0.2083 0.2083 0.2083 0.2997 0.1829 0.1829 0.1829 0.1829 0.1829 0.2632	-8.501 * -5.513 * -2.271 * -2.009 * 3.007 * 3.037 * 2.553 * 1.585 * -7.614 * -5.011 * -2.856 * -1.356 2.892 *	Interaction CCI/ROI1 Interaction CCI/ROI2 Interaction CC/ROI2 Interaction CC/ROI3 Interaction CC/ROI3 Interaction CC/2-DG/ROI1 Interaction CC/2-DG/ROI3 Interaction CC/2-DG/ROI3 Interaction CC/2-DG/ROI3 Interaction CC/ROI1 Interaction CC/ROI2 Interaction CC/ROI3 Interaction CC/ROI3 Interaction CC/ROI3 Interaction CC/ROI3 Interaction CC/ROI3 Interaction CC/ROI4 Interaction CC/2-DG/ROI1	tdT+ Densit Units: cells/10,00 -1.665 -1.027 -0.4762 -0.2377 0.8247 0.623 0.6053 0.5779 io of tdT+ Cells Li Units: ratio 0.364877 0.191243 0.091818 0.027345 -0.336425	y 00 µm ² 0.2567 0.2567 0.2567 0.2567 0.3693 0.3694 0.05685 0.05685 0.05	-6.487 * -4 * -1.855 -0.926 2.233 * 1.44 1.639 0.156 	
Interaction CCV/2-DG/ROI4 0.2361 0.2632 0.897 Interaction CCV/2-DG/ROI4 -0.087048 0.081767 -1.065	6	3 slices analyzed to generate 1 average value per animal Sham+Veh: 5 animals Sham+2-DG: 5 animals CCI+Veh: 7 animals CCI+2-DG: 6 animals	Interaction CCI/ROI1 Interaction CCI/ROI2 Interaction CCI/ROI3 Interaction CCI/2-DG/ROI1 Interaction CCI/2-DG/ROI2 Interaction CCI/2-DG/ROI2 Interaction CCI/2-DG/ROI3 Interaction CCI/2-DG/ROI3 Interaction CCI/ROI1 Interaction CCI/ROI1 Interaction CCI/2-DG/ROI1 Interaction CCI/2-DG/ROI1 Interaction CCI/2-DG/ROI1	PV+ Densi Units: cells/10,0 -1,771 -1,148 -0,6815 -0,4185 1,111 0,9103 0,7652 0,4751 t tdT+ Colocaliz Units: cells/10,0 -1,333 -0,9167 -0,5225 -0,248 0,761 0,5429	ty 00 μm ² 0.2083 0.2083 0.2083 0.2083 0.2997 0.1829 0.1829 0.1829 0.2632 0.2632 0.2632	-8.501 * -5.513 * -3.271 * -2.009 * 3.707 * 3.037 * 2.553 * 1.585 * -7.614 * -5.011 * -2.856 * -1.356 * -1.356 * 2.892 *	Interaction CCI/ROI1 Interaction CCI/ROI2 Interaction CCI/ROI3 Interaction CCI/ROI3 Interaction CCI/2-DG/ROI1 Interaction CCI/2-DG/ROI2 Interaction CCI/2-DG/ROI3 Interaction CCI/2-DG/ROI3 Interaction CCI/ROI3 Interaction CCI/ROI3 Interaction CCI/ROI3 Interaction CCI/ROI3 Interaction CCI/ROI3 Interaction CCI/ROI3 Interaction CCI/ROI4 Interaction CCI/2-DG/ROI1 Interaction CCI/2-DG/ROI1	tdT+ Densit Units: cells/10,00 -1.665 -1.027 -0.4762 -0.2377 0.532 0.6053 0.5779 0 of tdT+ Cells L Units: ratio 0.364877 0.191243 0.091818 0.027345 -0.336425 -0.157418	y 00 µm ² 0.2567 0.2567 0.2567 0.3693 0.05684 0.05684 0.05684 0.081767	-6.487 * -4 * -0.926 2.233 * 1.44 1.639 0.156 - 	
	6	3 slices analyzed to generate 1 average value per animal Sham+Veh: 5 animals Sham+2-DG: 5 animals CCI+Veh: 7 animals CCI+2-DG: 6 animals	Interaction CC//ROI1 Interaction CC//ROI2 Interaction CC//ROI3 Interaction CC//ROI3 Interaction CC//2-DG/ROI1 Interaction CC//2-DG/ROI3 Interaction CC//2-DG/ROI3 Interaction CC//ROI1 Interaction CC//ROI3 Interaction CC//ROI3 Interaction CC//ROI3 Interaction CC//2-DG/ROI1 Interaction CC//2-DG/ROI1 Interaction CC//2-DG/ROI3	PV+ Densi Units: cells/10,0 -1.771 -1.148 -0.6815 -0.4185 -1.111 0.9103 0.7652 0.4751 Volts: cells/10,0 -1.393 -0.9167 -0.5225 -0.248 0.761 0.5429 0.6884	ty 00 μm ² 0.2083 0.2083 0.2083 0.2083 0.2097 0.2997 0.1829 0.1829 0.2632 0.2632 0.2632 0.2632	-8.501 * -5.513 * -3.271 * -2.009 * 3.707 * 3.037 * 2.553 * 1.586 * -7.614 * -5.011 * -2.856 * -1.356 * -1.356 * 2.892 * 2.063 *	Interaction CCI/ROI1 Interaction CCI/ROI2 Interaction CCI/ROI2 Interaction CCI/ROI3 Interaction CCI/ROI3 Interaction CCI/2-DG/ROI1 Interaction CCI/2-DG/ROI3 Interaction CCI/2-DG/ROI4 Interaction CCI/2-DG/ROI4 Interaction CCI/ROI2 Interaction CCI/ROI3 Interaction CCI/ROI3 Interaction CCI/2-DG/ROI1 Interaction CCI/2-DG/ROI2 Interaction CCI/2-DG/ROI2 Interaction CCI/2-DG/ROI2 Interaction CCI/2-DG/ROI3 InteractiON InteractiON InteractiON InteractiON INTERACTIO	tdT+ Densit Units: cells/10.00 -1.665 -1.027 -0.4762 -0.2377 0.8247 0.6053 0.5779 0.6053 0.5779 0.1574 0.191243 0.027345 -0.3364257 -0.157418 -0.139133	y 00 µm ² 0.2567 0.2567 0.2567 0.2567 0.3693 0.05684 0.05684 0.06767 0.081767	-6.487 * -4 * -0.926 2.233 * 1.44 1.639 0.156 - - - - 1.615 - - - 1.615 - - 1.025 - 1.702	

Table S1. Linear mixed model results, organized by figure.

Type III Analysis of Variance with Satterthwaite's Method								
Data	Effect/Interaction	p value	Signficant					
	CCI	1.83E-04	*					
	2-DG	0.074809						
	ROI	1.27E-11	*					
PV+ Density	CCI/ROI	5.83E-15	*					
	2-DG/ROI	1.21E-04	*					
	CCI/2-DG	0.058903						
	CCI/2-DG/ROI	0.002792	*					
	CCI	6.07E-09	*					
	2-DG	0.35164						
	ROI	1.02E-06	*					
tdT+ Density	CCI/ROI	1.48E-11	*					
	2-DG/ROI	0.09617						
	CCI/2-DG	0.10985						
	CCI/2-DG/ROI	0.11161						
	ССІ	0.0037177	*					
	2-DG	0.0729436						
PV+tdT+	ROI	9.72E-09	*					
Colocalized	CCI/ROI	7.91E-15	*					
Density	2-DG/ROI	2.34E-04	*					
	CCI/2-DG	0.101366						
	CCI/2-DG/ROI	0.0202878	*					
	CCI	0.307487						
	2-DG	0.067198						
Patio of tdT	ROI	1.58E-06	*					
	CCI/ROI	2.78E-06	*					
Lacking Pv+	2-DG/ROI	1.34E-06	*					
	CCI/2-DG	0.127384						
	CCI/2-DG/ROI	0.001373	*					

Table S2. Type III ANOVA results.