

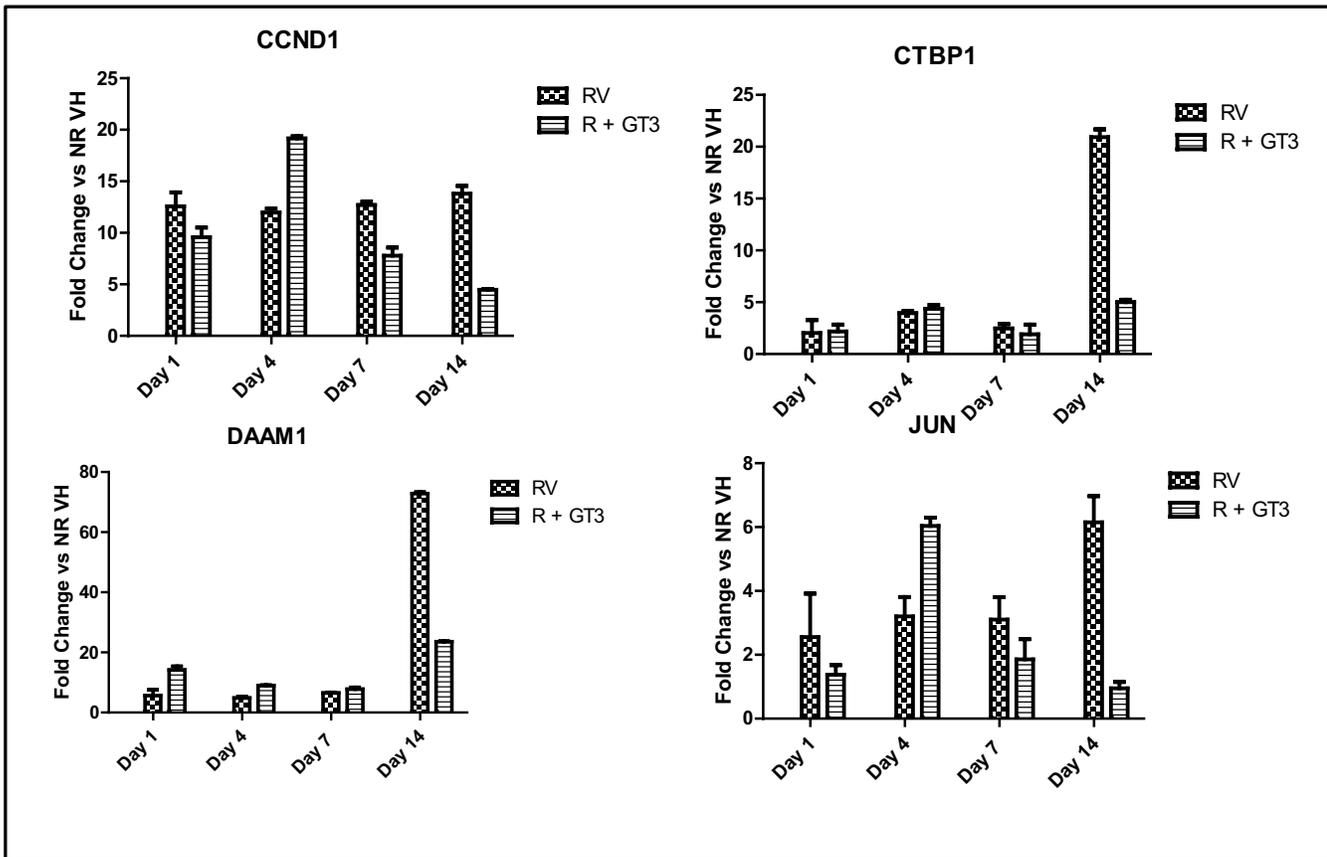
Supplementary Table S1. RT PCR results showing attenuation of WNT signaling pathway after GT3 post-radiation exposure. RT-PCR-based gene expression profiling was performed with tissue extracts obtained from mice with and without radiation exposure (see Materials and Methods) to assess the expression of genes involved in cellular processes that facilitate or regulate WNT signaling. Significant fold changes of irradiated vehicle (RV) and irradiated GT3 groups (R + GT3) compared to non-irradiated vehicle (NRV) control is shown in the table. Data presented as mean \pm standard error of mean; all genes listed in this table have a p-value \leq 0.00001. Highlighted genes have been graphically represented in Figure 7 and Supplementary Figure 1.

Gene	Day post-TBI	RV (Fold change \pm SEM)	R + GT3 (Fold change \pm SEM)
CCND1	Day1	12.58 \pm 1.35	9.58 \pm 0.93
	Day4	11.96 \pm 0.38	19.16 \pm 0.21
	Day7	12.70 \pm 0.32	7.78 \pm 0.80
	Day14	13.80 \pm 0.75	4.47 \pm 0.09
CTBP1	Day1	2.03 \pm 1.25	2.18 \pm 0.67
	Day4	3.94 \pm 0.20	4.37 \pm 0.37
	Day7	2.46 \pm 0.43	1.90 \pm 0.93
	Day14	20.92 \pm 0.75	5.02 \pm 0.23
CTNNB1	Day1	2.39 \pm 0.89	2.08 \pm 0.53
	Day4	3.20 \pm 0.17	5.25 \pm 0.22
	Day7	2.96 \pm 0.32	2.28 \pm 0.57
	Day14	11.47 \pm 0.70	1.73 \pm 0.29
DAAMI	Day1	5.60 \pm 1.97	14.19 \pm 1.17
	Day4	4.86 \pm 0.45	8.94 \pm 0.17
	Day7	6.50 \pm 0.20	7.78 \pm 0.60
	Day14	72.84 \pm 0.43	23.59 \pm 0.12
EP300	Day1	1.50 \pm 1.16	1.23 \pm 0.83
	Day4	2.49 \pm 0.10	2.95 \pm 0.09
	Day7	1.87 \pm 0.38	1.58 \pm 0.73
	Day14	10.95 \pm 0.57	3.39 \pm 0.13
Fbxw11	Day1	1.73 \pm 2.31	4.17 \pm 1.17
	Day4	2.60 \pm 0.07	3.71 \pm 0.25
	Day7	3.40 \pm 0.38	2.04 \pm 0.47
	Day14	17.39 \pm 0.41	3.89 \pm 0.28
Fbxw2	Day1	3.29 \pm 1.28	1.86 \pm 1.57

	Day4	2.16 ± 0.61	3.47 ± 0.19
	Day7	4.29 ± 0.38	3.16 ± 0.77
	Day14	24.03 ± 0.31	10.75 ± 0.22
Frzb	Day1	3.15 ± 2.17	3.31 ± 1.70
	Day4	2.73 ± 0.85	5.38 ± 0.19
	Day7	8.19 ± 0.68	5.63 ± 0.90
	Day14	45.89 ± 0.27	5.25 ± 0.20
Fzd1	Day1	7.93 ± 1.23	5.50 ± 0.37
	Day4	23.92 ± 0.09	31.85 ± 0.15
	Day7	23.70 ± 0.56	13.24 ± 0.87
	Day14	45.89 ± 0.70	4.27 ± 0.19
Fzd5	Day1	1.37 ± 1.21	0.91 ± 1.97
	Day4	1.08 ± 0.42	2.04 ± 0.22
	Day7	2.00 ± 0.31	1.73 ± 0.30
	Day14	13.18 ± 0.27	2.69 ± 0.20
FZD6	Day1	0.90 ± 0.42	1.25 ± 0.47
	Day4	2.60 ± 0.25	3.39 ± 0.36
	Day7	2.14 ± 0.29	0.97 ± 0.60
	Day14	3.78 ± 0.38	0.51 ± 0.18
Gsk3b	Day1	4.55 ± 1.10	3.09 ± 1.03
	Day4	3.43 ± 0.48	6.32 ± 0.20
	Day7	3.56 ± 0.32	3.47 ± 0.43
	Day14	19.07 ± 0.41	4.27 ± 0.23
Jun	Day1	2.56 ± 1.36	1.38 ± 0.30
	Day4	3.20 ± 0.61	6.03 ± 0.26
	Day7	3.10 ± 0.70	1.86 ± 0.63
	Day14	6.15 ± 0.82	0.95 ± 0.20
Lrp5	Day1	3.00 ± 1.42	2.08 ± 0.50
	Day4	6.41 ± 0.13	7.43 ± 0.09
	Day7	4.39 ± 0.68	1.77 ± 1.50

	Day14	6.01 ± 0.60	0.83 ± 0.33
LRP6	Day1	1.77 ± 1.25	1.65 ± 0.9
	Day4	2.07 ± 0.18	1.82 ± 0.15
	Day7	2.00 ± 0.49	1.22 ± 0.50
	Day14	3.61 ± 0.46	0.74 ± 0.15
PORCN	Day1	1.61 ± 0.85	1.86 ± 0.33
	Day4	6.56 ± 0.21	6.03 ± 0.32
	Day7	2.89 ± 0.54	1.65 ± 0.57
	Day14	5.74 ± 0.66	0.72 ± 0.06
Ppp2ca	Day1	1.04 ± 1.63	1.04 ± 1.27
	Day4	1.27 ± 0.09	1.41 ± 0.15
	Day7	1.48 ± 0.26	1.44 ± 0.67
	Day14	12.30 ± 0.58	3.02 ± 0.22
Ppp2r1a	Day1	2.28 ± 1.13	1.69 ± 1.13
	Day4	1.11 ± 0.44	1.82 ± 0.21
	Day7	2.09 ± 0.35	2.04 ± 0.43
	Day14	10.95 ± 0.58	1.65 ± 0.24
	Day14	2.68 ± 0.69	0.56 ± 0.30
SFRP1	Day1	1.54 ± 1.49	2.34 ± 1.06
	Day4	3.20 ± 0.21	4.79 ± 0.38
	Day7	4.81 ± 0.65	2.51 ± 0.43
	Day14	4.66 ± 0.95	0.81 ± 0.23
SLC9A3R1	Day1	5.35 ± 1.34	3.89 ± 1.10
	Day4	3.36 ± 0.26	4.68 ± 0.21
	Day7	3.56 ± 0.95	4.68 ± 0.10
	Day14	8.50 ± 0.42	0.34 ± 2.70
TCF7L1	Day1	0.86 ± 1.38	1.07 ± 1.23
	Day4	1.88 ± 0.23	2.34 ± 0.06
	Day7	2.58 ± 0.32	1.86 ± 0.30
	Day14	4.05 ± 0.80	0.43 ± 0.23

Tle1	Day1	2.74 ± 1.62	1.20 ± 1.67
	Day4	2.02 ± 0.38	3.47 ± 0.40
	Day7	3.33 ± 0.38	3.16 ± 0.23
	Day14	13.49 ± 0.61	1.86 ± 0.27
Wisp1	Day1	4.88 ± 1.35	4.27 ± 1.37
	Day4	4.43 ± 0.15	6.62 ± 0.26
	Day7	6.65 ± 0.26	6.03 ± 0.03
	Day14	9.11 ± 0.46	1.99 ± 0.09
Wnt6	Day1	15.85 ± 1.39	17.07 ± 1.63
	Day4	11.16 ± 0.34	20.07 ± 0.32
	Day7	21.11 ± 0.30	14.19 ± 0.03
	Day14	21.91 ± 0.55	4.07 ± 0.06
WNT7A	Day1	1.94 ± 0.84	0.95 ± 0.83
	Day4	4.64 ± 0.29	5.02 ± 0.56
	Day7	3.33 ± 0.66	0.95 ± 1.1
	Day14	3.15 ± 0.72	0.46 ± 0.45



Supplementary Figure S1. RT PCR results showing attenuation of WNT signaling pathway after GT3 at Day 14 post-radiation exposure. RT-PCR-based gene expression profiling was performed with tissue extracts obtained from mice with and without radiation exposure (see [Materials and Methods](#)) to assess the expression of genes involved in cellular processes that facilitate or regulate WNT signaling.