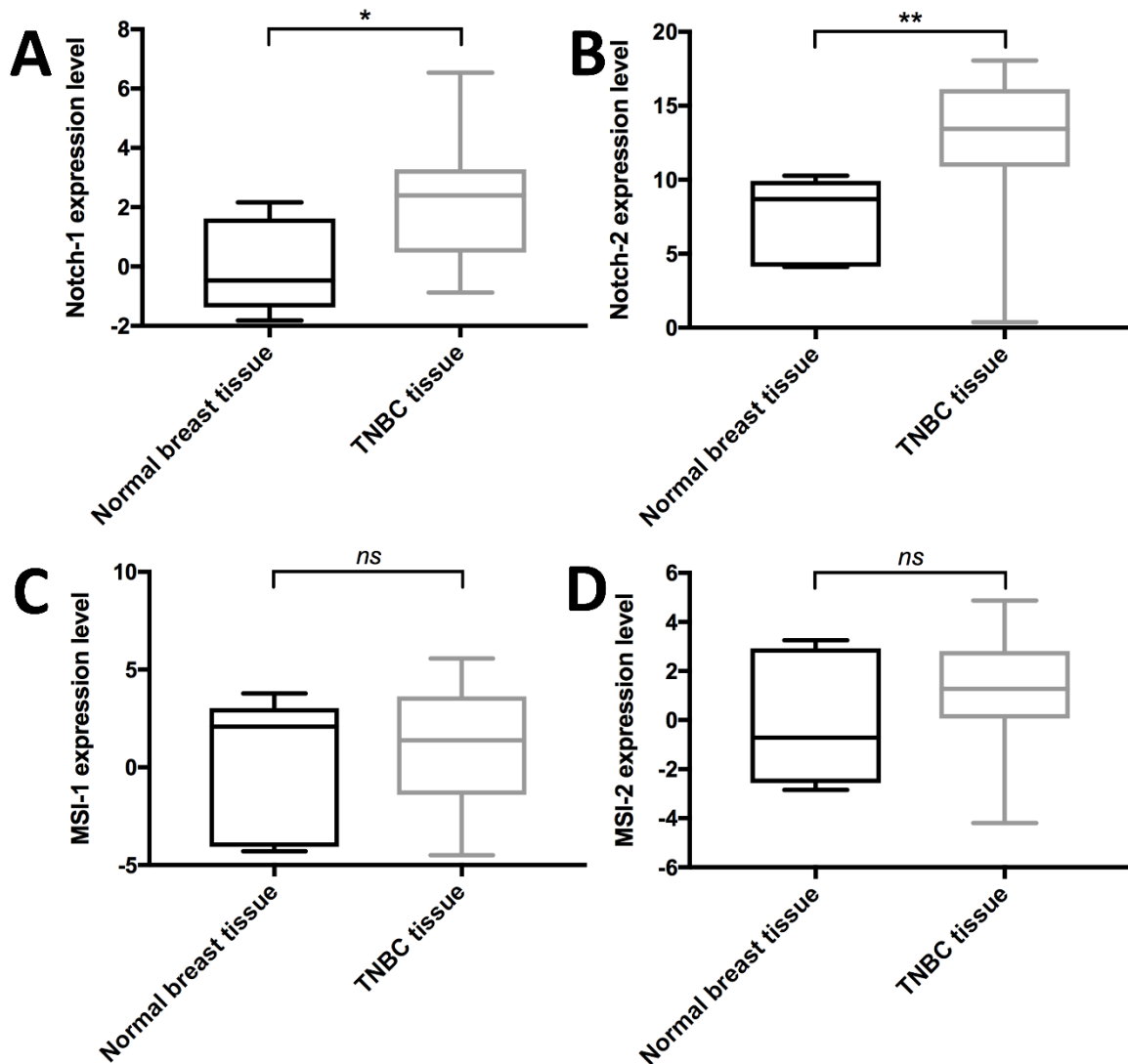
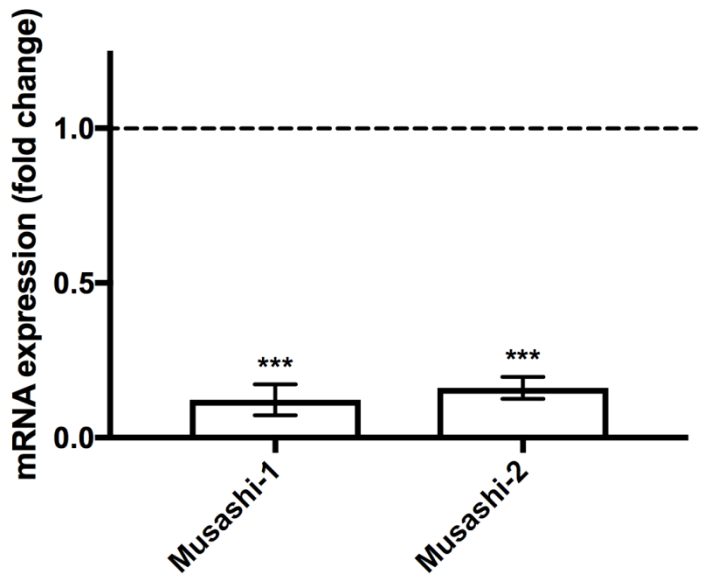


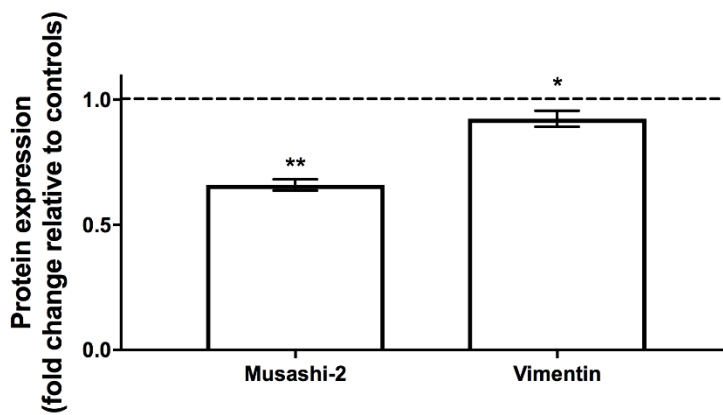
Supplementary Materials



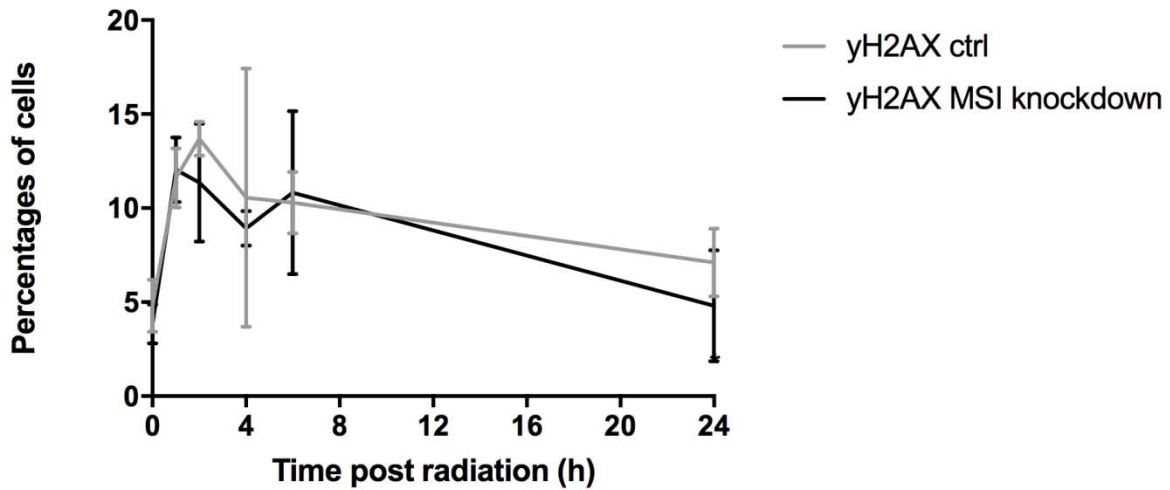
Supplementary figure S1. Differences in expression between normal breast tissue samples ($n = 5$) and triple-negative breast cancer (TNBC) samples ($n = 19$) were assessed via quantitative polymerase chain reaction (qPCR). After normalization to the housekeeping gene, respective gene expression was evaluated using the $2^{-\Delta\Delta Ct}$ method with data then presented as log₂-transformed fold change. Mann Whitney U test was used for correlation (* $p < 0.05$, ** $p < 0.01$, boxplot indicates interquartile range). **S1A:** *Notch-1* expression is higher in TNBC tissues compared to normal breast tissues ($p < 0.05$). **S1B:** *Notch-2* expression is higher in TNBC tissues compared to normal breast tissues ($p < 0.01$). **S1C:** *MSI-1* expression is not significantly different in TNBC tissues when compared to normal breast tissues ($p > 0.05$). **S1D:** *MSI-2* expression is not significantly different in TNBC tissues when compared to normal breast tissues ($p > 0.05$).



Supplementary Figure S2. *Musashi-1* (*MSI-1*) and *Musashi-2* (*MSI-2*) levels subsequent to knockdown with *MSI-1* & *MSI-2* siRNA, as quantified by quantitative polymerase chain reaction (qPCR). Both mRNAs were repressed by roughly 80%. Cells were transfected with a control siRNA and *MSI-1* & *MSI-2* siRNA, respectively, as detailed in the methods section (at least $n = 3$, *** $p < 0.001$, error bars indicate standard error of the mean (s.e.m.)).



Supplementary Figure S3: Changes in *MSI-2* and Vimentin protein levels subsequent to knockdown with *MSI-1* & *MSI-2* siRNA, as quantified by western blot. Cells were transfected with a control siRNA and *MSI-1* & *MSI-2* siRNA, respectively, as detailed in the methods section (at least $n = 3$, * $p < 0.05$, ** $p < 0.01$, error bars indicate standard error of the mean (s.e.m.))



Supplementary Figure S4. γ H2AX measurements in *Musashi* (*MSI*) knockdown cells and respective controls. No significant differences were observed at all timepoints. Cells were transfected with a control siRNA and *MSI-1* & *MSI-2* siRNA, respectively, as detailed in the methods section.

Supplementary Table S1. siRNAs used for experiments.

siRNA	Manufacturer	Manufacturer ID	UniGene ID
<i>MSI-1</i>	Thermo Fisher Scientific	S8980	Hs.158311
<i>MSI-2</i>	Thermo Fisher Scientific	S42757	Hs.658922
<i>Negative control</i>	Thermo Fisher Scientific	4390843	-

Supplementary Table S2. TaqMan primers used for qPCR experiments.

Gene	Manufacturer	Primer Sequence
<i>mnumb</i>	Thermo Fisher Scientific hs00377772-M1	<i>Full product details can be found on the manufacturer's website using the catalogue number.</i>
<i>Notch-1</i>	Thermo Fisher Scientific hs00413187_M1	
<i>Notch-2</i>	Thermo Fisher Scientific hs01050719_M1	
<i>hes2</i>	Thermo Fisher Scientific hs00219505_M1	
<i>GBX2</i>	Thermo Fisher Scientific hs00230965_M1	
<i>LIFR</i>	Thermo Fisher Scientific hs01123581_M1	
<i>vimentin</i>	Biologio (Nijmegen, The Netherlands)	
<i>GAPDH</i>	Biologio	Fwd: CCCAGCAAGAGCACAAGAGG Rev: GGTCTACATGGCAACTGTGAGGA

Supplementary Table S3. Antibodies used for western blotting.

Target	Manufacturer	Catalogue number
MSI-2	Santa Cruz	SC-83160
Vimentin	Santa Cruz	SC-32322
DNA-PKcs	R&D-Systems	AF3415
EGFR	Abcam (Cambridge, United Kingdom)	AB32430
Tubulin	Sigma-Aldrich	T5168
Rabbit Anti-Goat IgG Peroxydase	Sigma-Aldrich	401515
Goat-Anti-Rabbit IgG Peroxidase	Sigma-Aldrich	401353
Goat-Anti-Mouse IgG HRP	Sigma-Aldrich	12-349

Supplementary Table S4. Antibodies used for flow cytometry.

Target	Manufacturer	Catalogue number
CD44	BD Biosciences	559942
LIFR	R&D-Systems	FAB249A
APC isotype	BD Biosciences	555576
PE isotype	R&D-Systems	IC002A