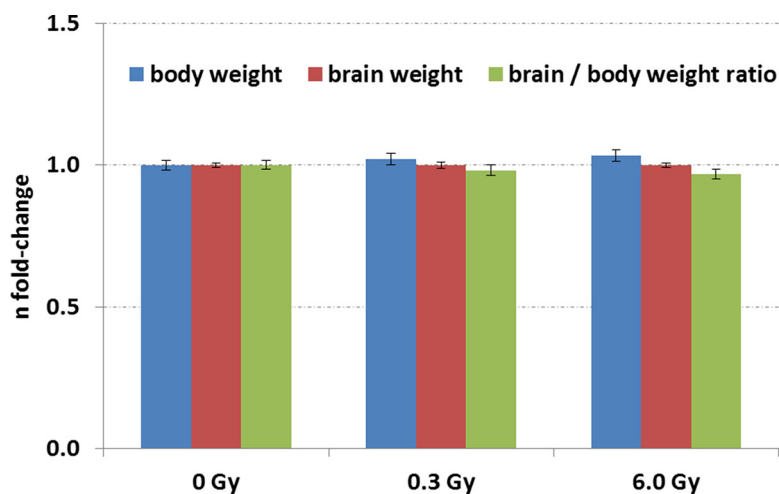
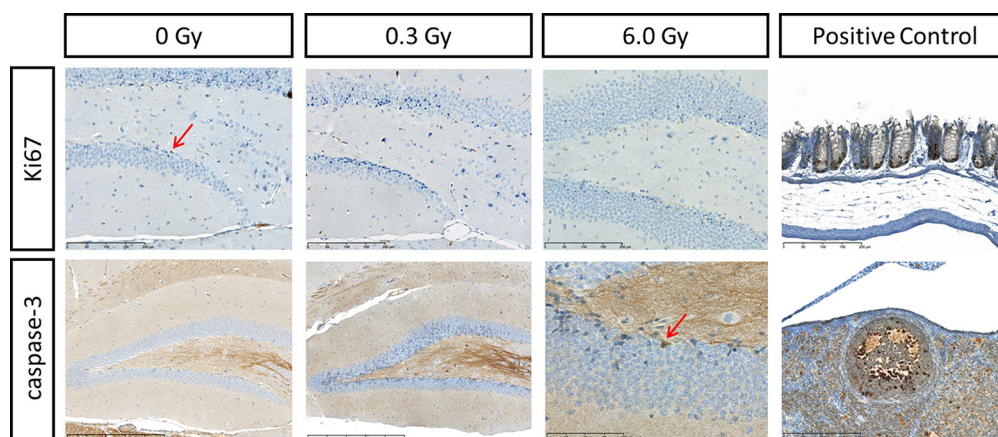


## Chronic low-dose-rate ionising radiation affects the hippocampal phosphoproteome in the ApoE<sup>-/-</sup> alzheimer mouse model

### Supplementary Materials



**Supplementary Figure S1: Body and brain weights in mice after chronic irradiation.** Data of body and brain weights and the ratios of these are shown as fold-changes  $\pm$  SEM (standard error of the means) from 16 biological replicates (Student's *t*-test, unpaired).



**Supplementary Figure S2: Immunohistochemistry of Ki67 and cleaved caspase-3.** Representative images from sham-irradiated (0 Gy) and chronically-irradiated (0.3 Gy and 6.0 Gy) brain slides stained against Ki67 ( $n = 6$ ) and activated caspase-3 ( $n = 6$ ) are shown. Positive controls: Ki67 – murine colon with epithelial cells; cleaved caspase-3 – murine ovary with degenerated follicle. The stainings showed only randomised hits (arrows).

**Supplementary Table S1: Protein list of quantifiable unmodified proteins and global standard deviation calculation within all groups (0 Gy, 0.3 Gy and 6.0 Gy).** See Supplementary\_Table S1

**Supplementary Table S2: Significantly deregulated phosphopeptides and N-linked sialylated glycopeptides.** See Supplementary\_Table S2

**Supplementary Table S3: Quantifiable phosphopeptides and N-linked sialylated glycopeptides.** See Supplementary\_Table S3

**Supplementary Table S4: Targeted transcriptomics analysis of genes related to “Synaptic Plasticity”.** See Supplementary\_Table S4

**Supplementary Table S5: Visualisation of deregulated signalling pathways obtained using IPA software.** The images are adapted from Qiagen without further modification. See Supplementary\_Table S5