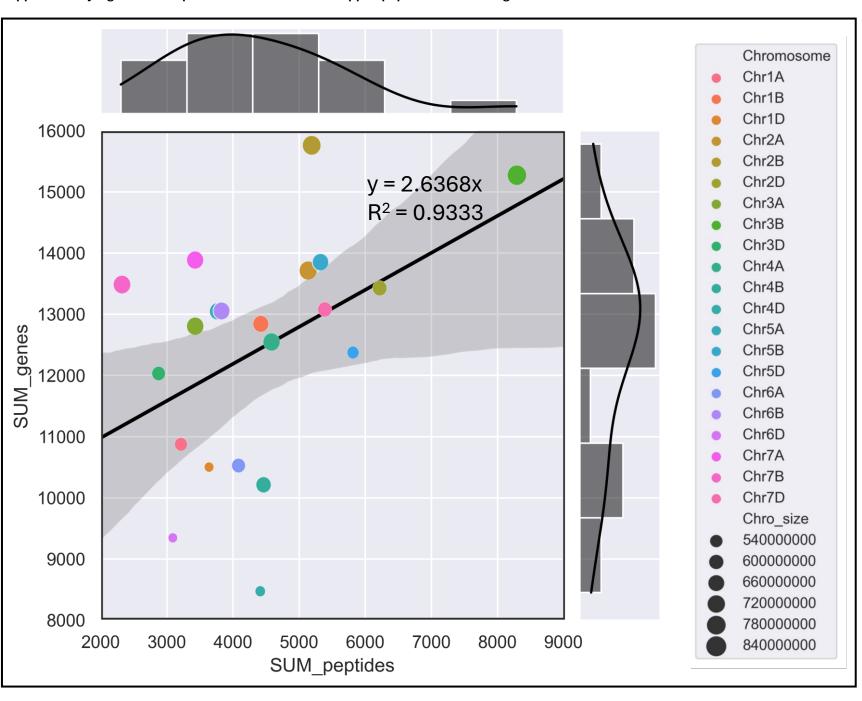
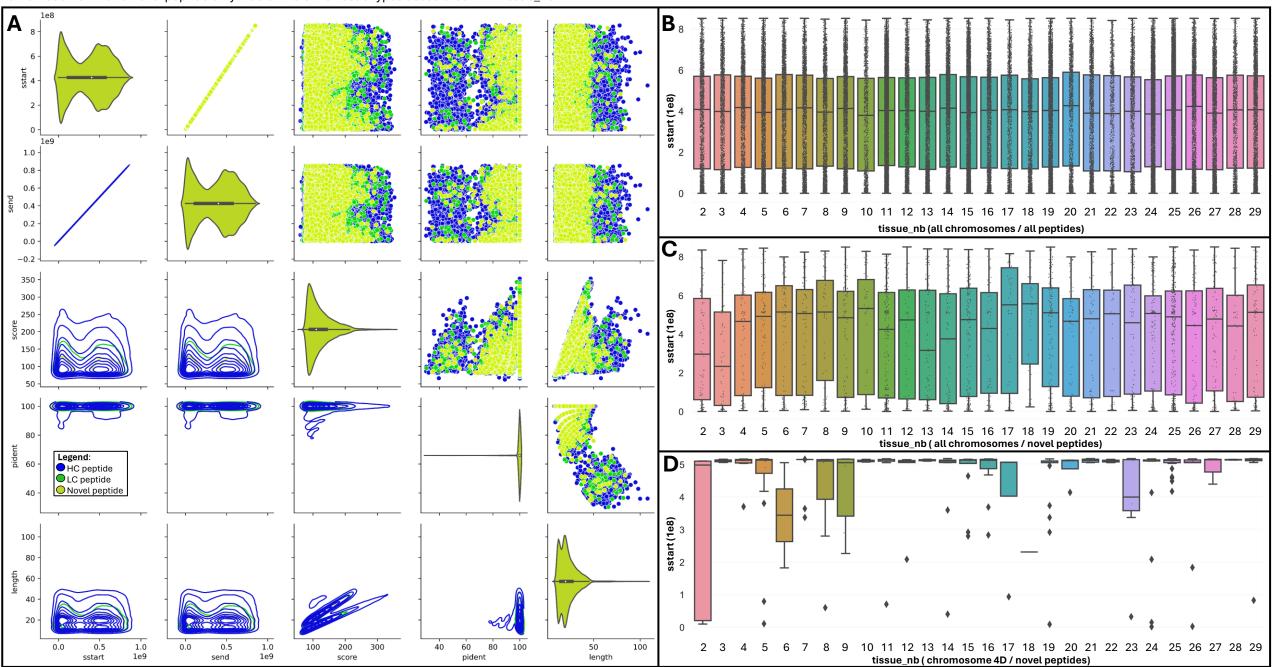
Supplementary Figure S1: Joinplot between number of mapped peptides and wheat genes for each chromosome.



Supplementary Figure S3: Data visualisation of tBLASTn outputs using JupyterLab Python 3 Seaborn and Matplotlib libraries. A. Pairgrid of distplots, violinplots and scatterplots of relevant numerical variables colored per peptide type. B. Box plot of tissue_nb vs. sstart for all chromosomes and novel peptides only. D. Box plot of tissse_nb vs. sstart for all chromosome 4D and novel peptide only. Table 2 lists the tissue types associated with tissue_nb.



Supplementary Figure S4: Novel peptide alignments along the end tail of chromosome 4D visualized using Apollo Jbrowse Australia. A. Gene-depleted genomic region Chr4D:512639661 (5.69 Mb) with 143 novel peptides (yellow-green) and RNA-seq expression at the bottom (blue). B. Zoom-in on area Chr4D:515319968..515323561 (3.59 Kb) with 20 novel and strong transcript expression delineating 1 or 2 candidate genes. C. Zoom-in on Chr4D:515873999..515890302 (16.3 Kb) with 9 novel peptides and weak transcript expression delineating 1 or 2 candidate genes. D. Zoom-in on Chr4D:517010333..517013855 (3.52 Kb) with 4 novel peptides and moderate transcript expression delineating 1 candidate genes.

