A

TE annotation
Gene annotation
SD "Hits"

Smp_214320

B

SM_V9_7:3914700-3989270

74569

SM_V9_5:6469913-6685934

216020

C

SM_V9_2:38355314-38421326

66011

SM_V9_4:38156118-38481399

Smp_348000.1
Smp_348010
Smp_348020.1
Smp_315480
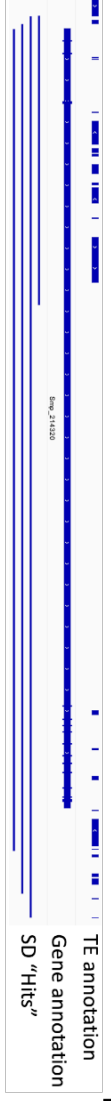Smp_315480.1

245260

D

SM_V9_4:2746855-2794309

47453

SM_V9_1:662826-715622

52795

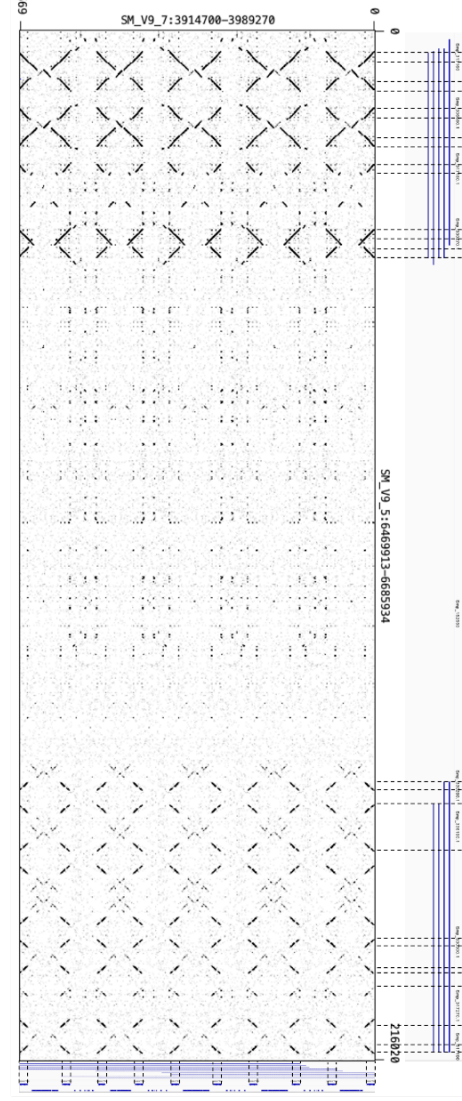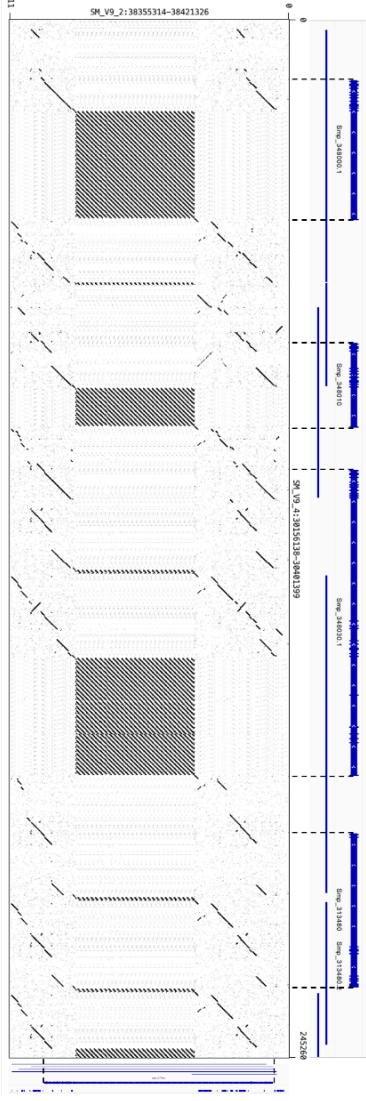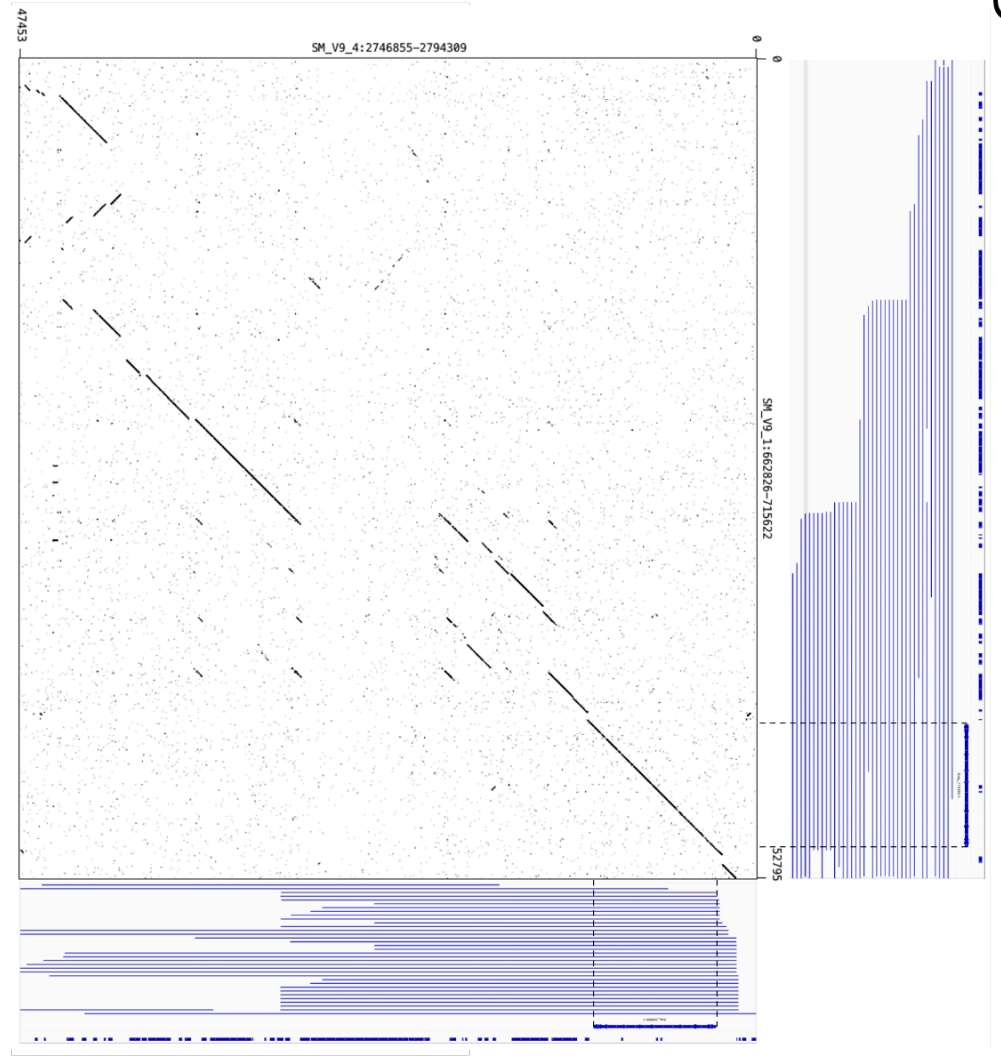**Supplementary Figure 2 – Demonstration of tandem duplicated hits in dataset. A** - Key for reading IGV tracks for the figure. Tracks include transposable element (TE) annotations, the gene annotations from the V10 pre-released (V9.5 - SM_V9_updated_221114.gff3) and "SD_hits.bed", the bedfile of biser's filtered output. Black dashed lines are overlaid to indicate the position of genes more clearly on the dotplot. **B** - Segmental duplications across the two cercarial protease loci of chromosome 5 (which are approx 200kbp away from one another) and chromosome 7. Note the lack of continuity from chromosome 5 to chromosome 7, indicating the genes have been tandemly duplicated independently of the other loci, as we observe no continued homology throughout the region. **C** - Segmental duplications across the four mucins of chromosome 4 and the mucin on chromosome 2. Gene models have been duplicated around the large (unannotated) tandem repeats present at the loci, as can be seen in the similarity between the 5' and 3' and of the same mucin genes. **D** - Example of segmental duplication with two of the hypothetical proteins, in which near unidirectional homology is observed across a larger region than the gene itself.