

cuments/pipeline_batches/X-link/genehunter_x/ghmXY_processed/gh_200 - GH2 LOD (Total stat het) - Mon J

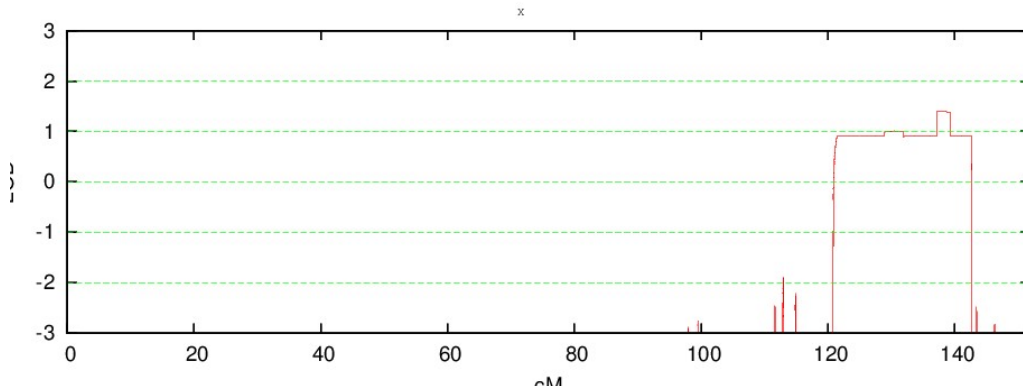


Figure 1:
Genehunter run without
changing the input DAT files.

cuments/pipeline_batches/X-link/genehunter_x/ghmXY_processed/gh_200 - GH2 LOD (Total stat het) - Mon Jar

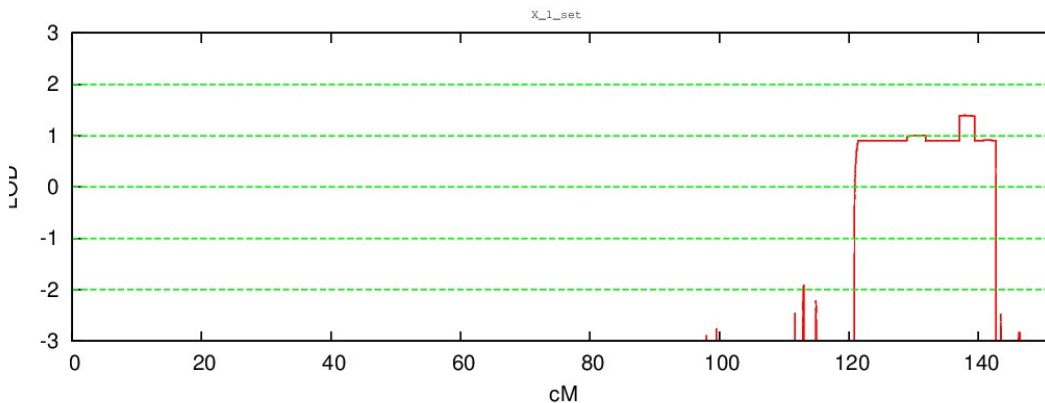


Figure 2:
Genehunter run with DAT file
header changed to Xlinked
(third column 0 → 1)

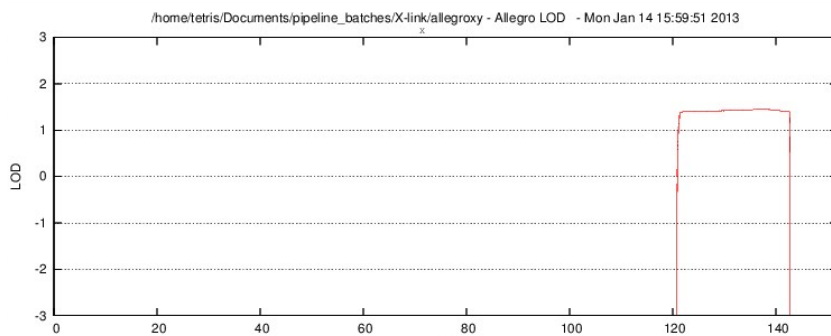


Figure 3:
Allegro run without DAT file modifications (see
page 1). Region matches with genehunter
analysis, but peak score is too high

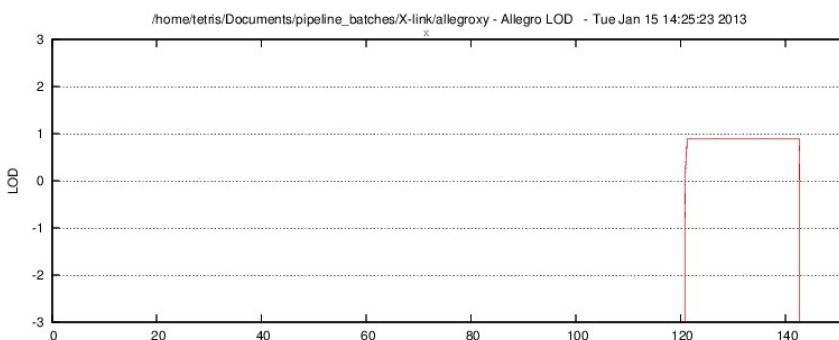


Figure 4:
Allegro run *with* DAT file modifications {header 0 → 1,
male penetrance duplicated from female}. Region
matches and peak score match with genehunter
analysis.

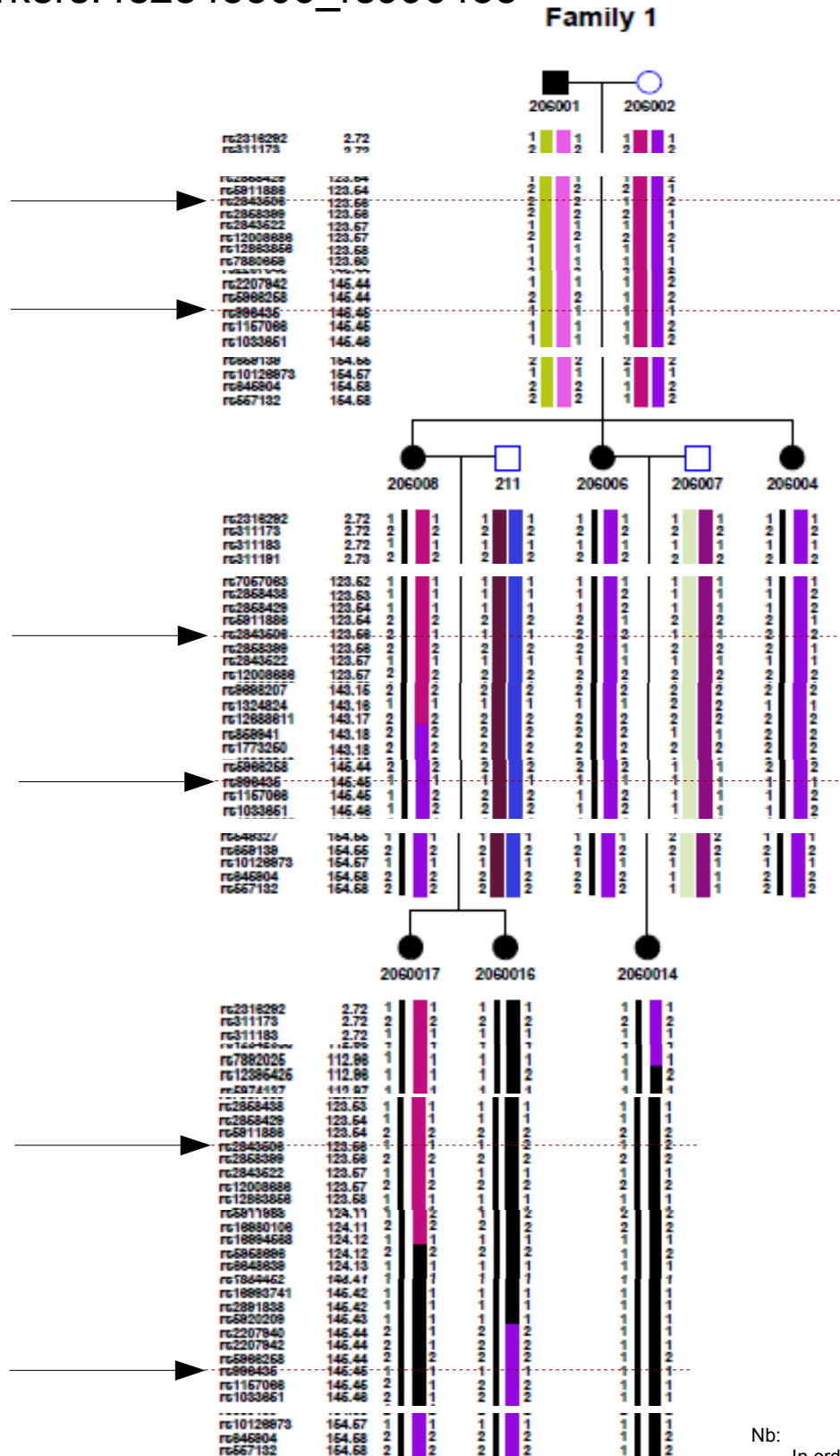
Remarks:

Genehunter appears to discard the LINKAGE DAT file header information regarding whether the data is sex-linked or not, but handles it automatically producing the correct result for both modified and unmodified DAT files as shown in Figure 1 and Figure 2.

In the Allegro manual it claims to also discard much of the LINKAGE header data, however though it reproduces the correct regions between the modified and unmodified DAT files correctly, the peak score is only correct for the modified version (Figure 4).

Markers: rs2843506_rs996435

--wrong method



Nb:

In order to run chromosomeX on Allegro:

- Allegro dat file had the male penetrances duplicated from the female
- Header of dat file was changed to x-linked
- Options file specified parametric x analysis

In order to generate haplotypes for chrX:

- messner3 script was heavily modified to generate LOD peak for chrX
- ihaplo.out file cX/ directory was modified to duplicate homozygous alleles

Markers: rs2843506_rs996435

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--correct method?
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