Grouped plots

Group plots

The plots for the paper need to be grouped into larger figures. The roughly planned grouping so far can be seen in the file `figure_group_planning.md`.

Load dependencies

ggplotify function

The facet packages (patchwork and cowplot facet_grid etc) dont seem to work with non-ggplot plots. So this function is here to convert the plots to ggplot format

Figure 1 - Explanatory and introductory plots

Here is an example of Figure 1

Figure 2 - Overview results

These figrues are meant to give a general idea of how many results there are, and show that they make sense.
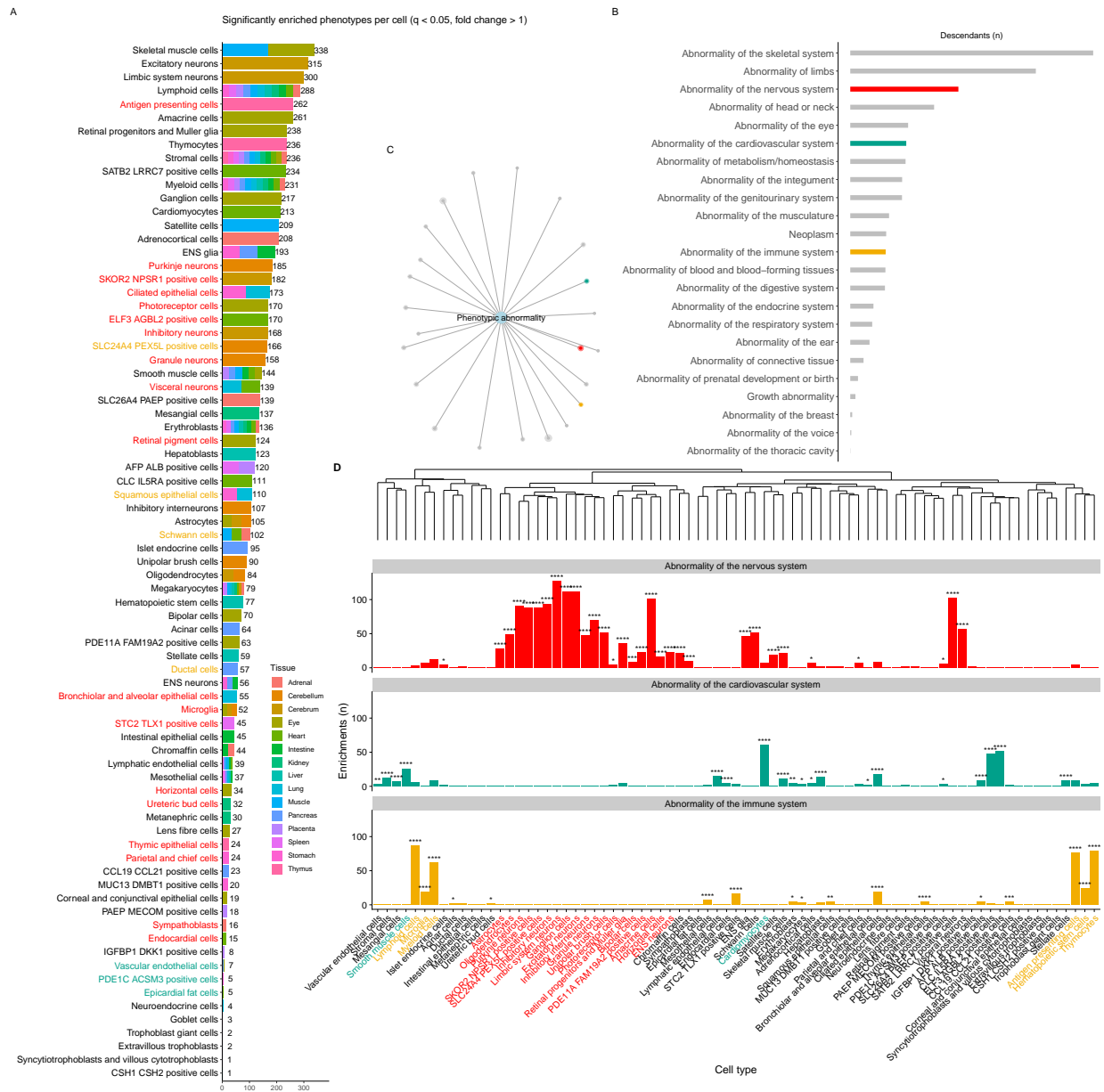
Here is Fig 2

Figure 1: **Explanatory and Introductory plots.** These plots were mostly used in the introduction of my report.

Figure 2: **Overview results** plots describing the number of significant results.

Testing ggnetwork plot

adjacency_matrix
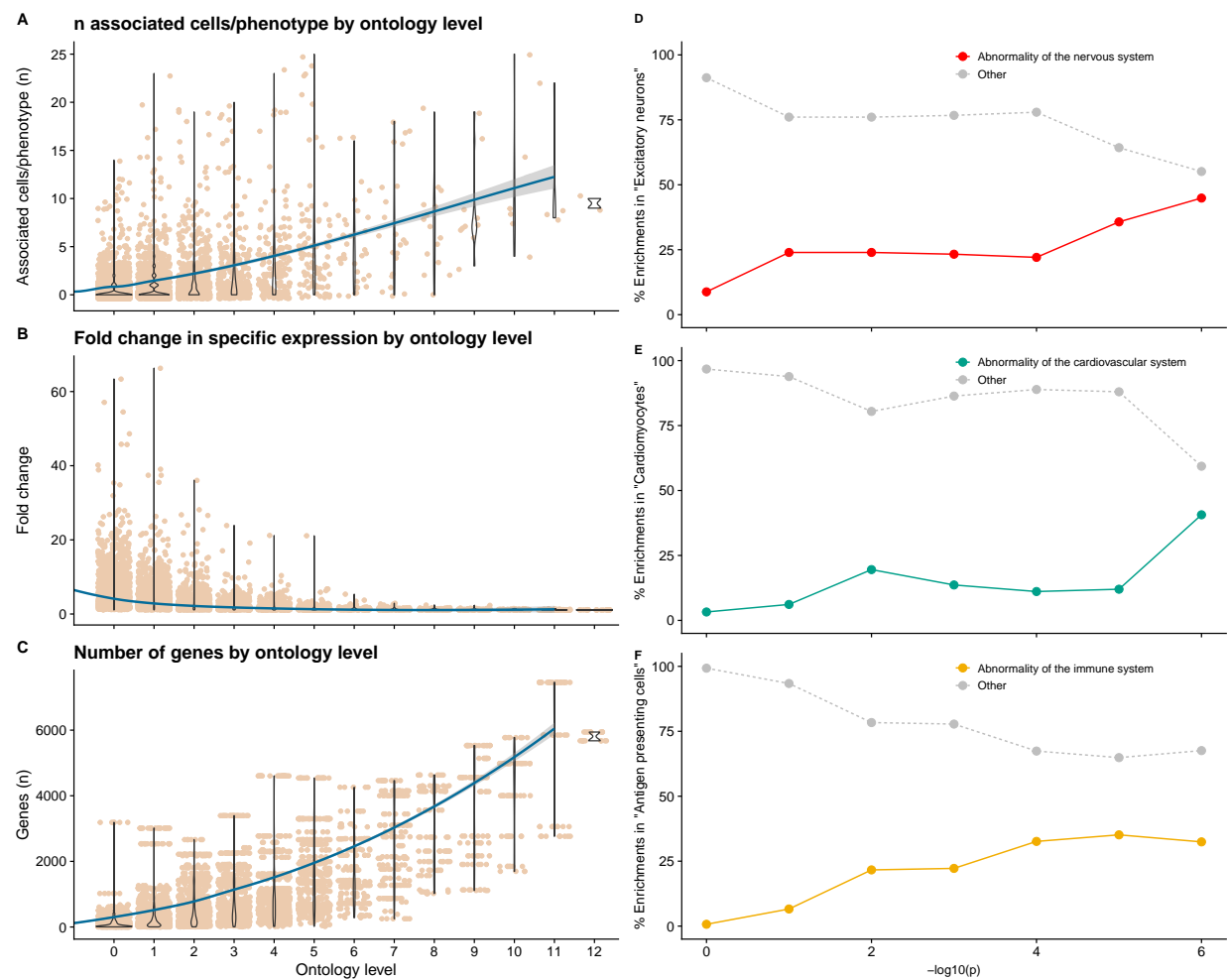
ggnetwork_plot

Not sure if this looks good here, but could be useful somewhere for showing the network structure and highlighting certain phenotypes by colour?
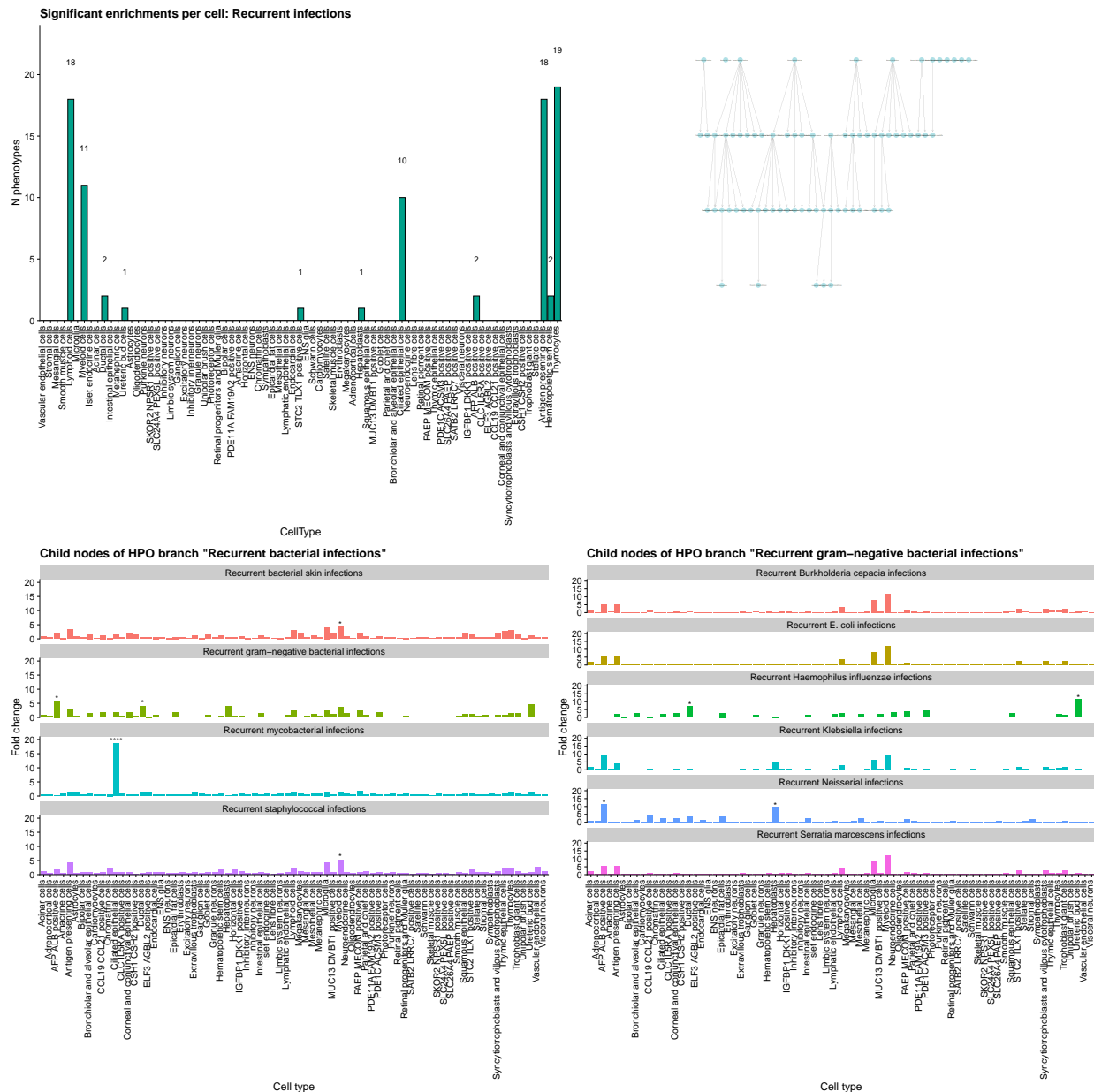
Figure 3 HPO Patterns and relationships

These show common patterns seen in HPO, related to ongology level, n genes etc.

Here is Fig **??**

Figure 4 infections

Significant enrichments per cell: Recurrent infections

Child nodes of HPO branch "Recurrent bacterial infections"

Child nodes of HPO branch "Recurrent gram−negative bacterial infections"

Here is Fig **??**

Figure - social interactions

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## replace the existing scale.
## Scale for 'x' is already present. Adding another scale for 'x', which will
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## replace the existing scale.
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Here is Fig **??**