

Viz showing Martinotti Cell Projection from L5 to L1 in NTC samples

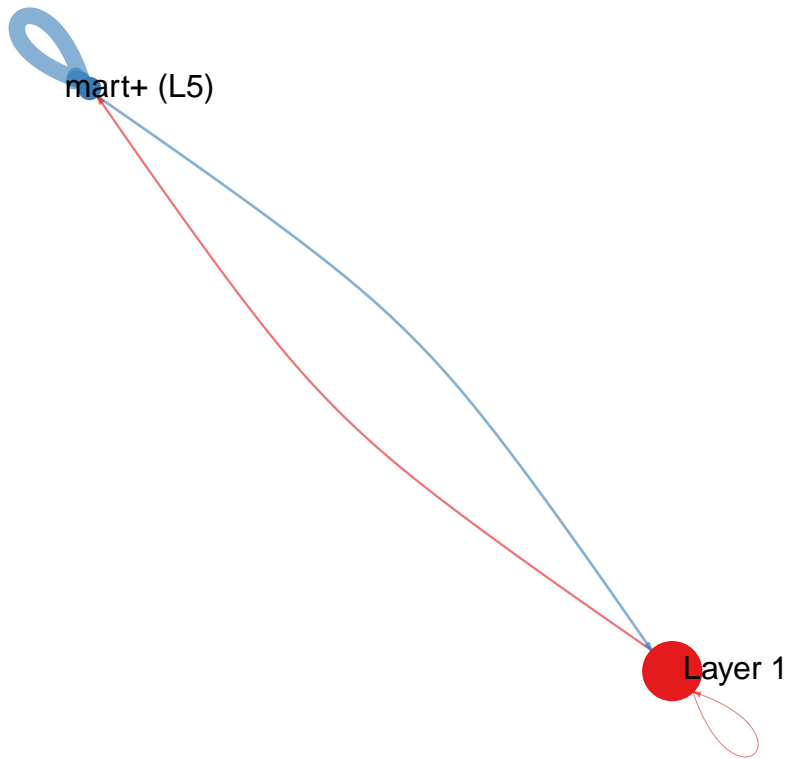
This is the same analysis as in the file `cellchat_validate_NTC_Martinotti.qmd`. The only different here is that besides including all L1 (spd07), only a **subset of L5 (spd05)** is included - only the Martinotti+ spots is included.

Results

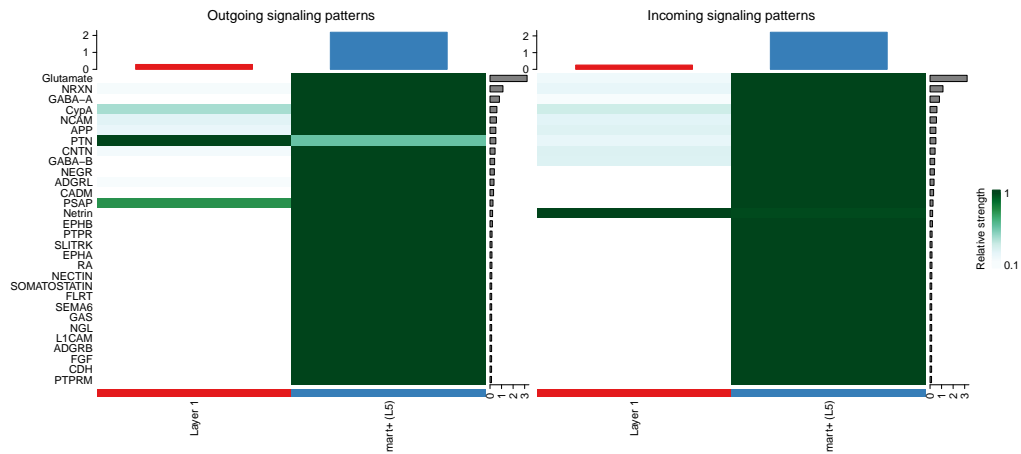
Overall pattern

Here are some information about the overall communication pattern considering all the possible pathways and LR communication pairs. It is not that important. Can directly jump to the Section section.

Number of interactions

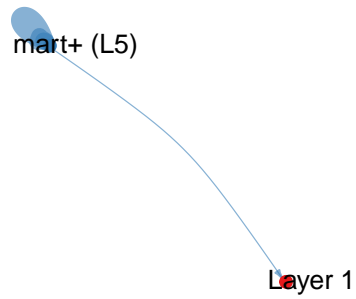


It looks like there are still a lot of **GABA-A** communication.



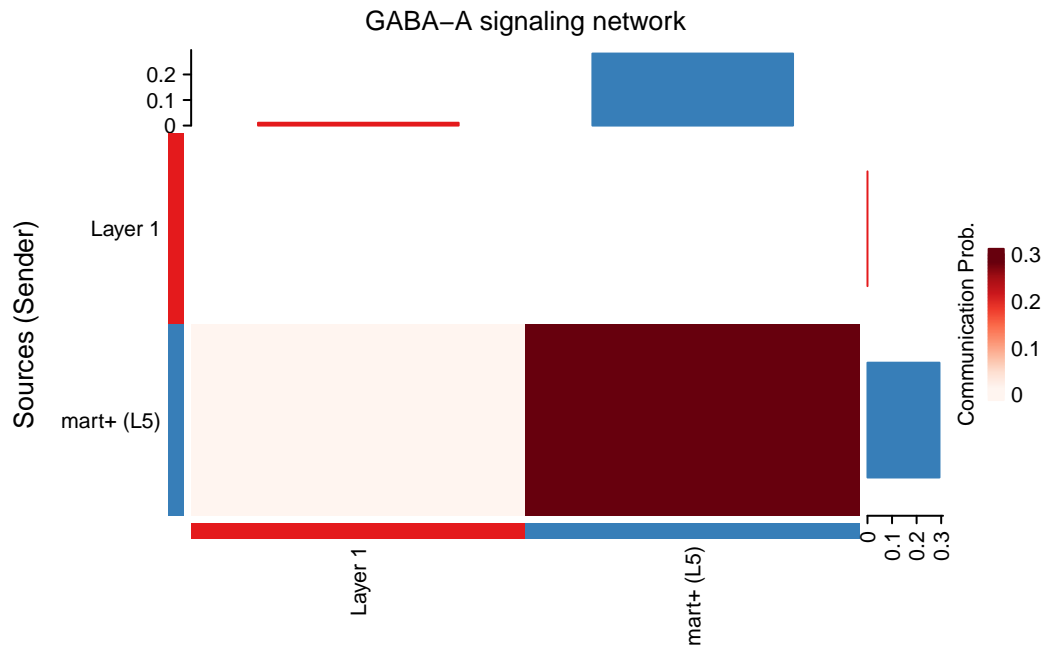
GABA pathways

If we focus on the communication that is in the GABA pathways, it looks like that there are communication pattern from Martinotti+ spots to Layer 1.



Here is another quick view for for the explanation. There's still a lot of GABA-A signaling mainly within the martinotti+spots and there's also sending from martinotti+ spots to layer 1.

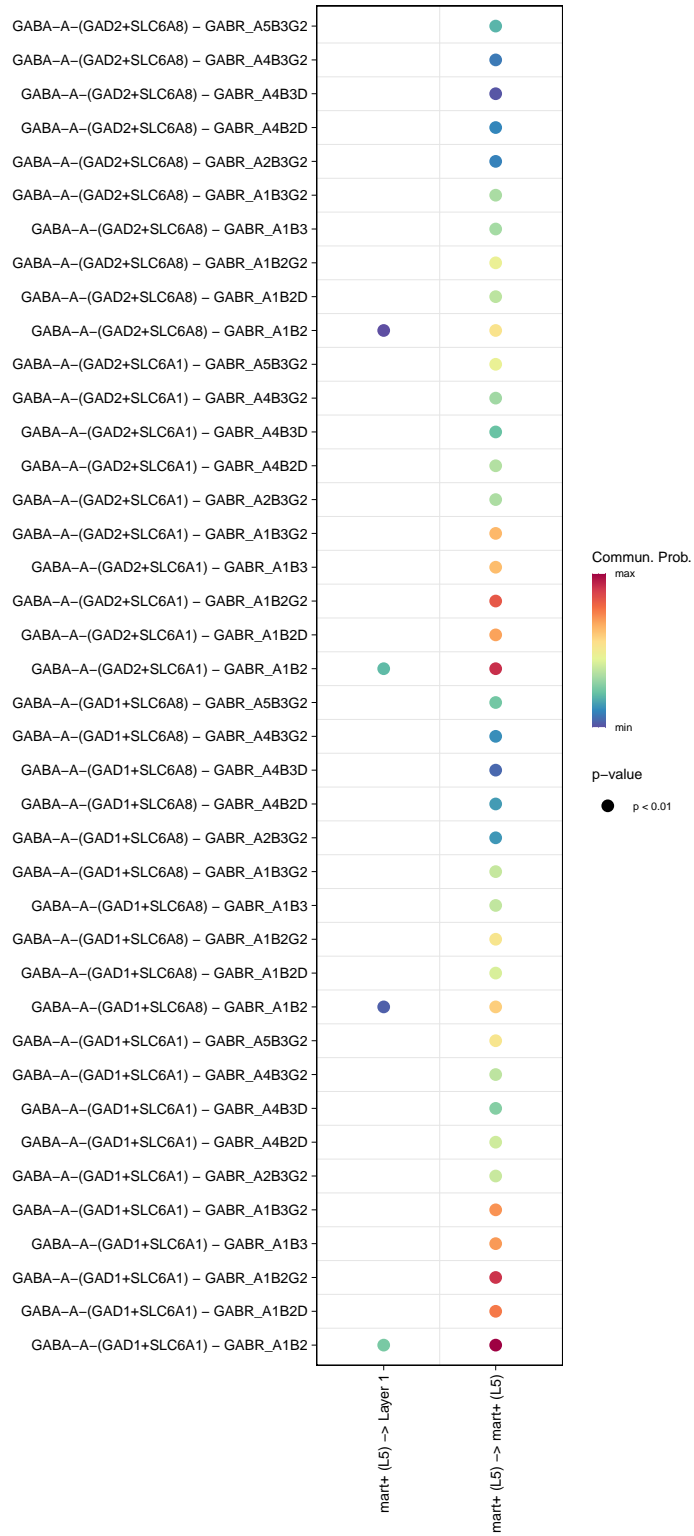
Do heatmap based on a single object



LR pairs in the GABA_A path

So the LR pairs GABA-A-(GAD1/2+SLC6A1/8) - GABR_A1B2 and GABA-A-(GAD2+SLC6A8) - GABR_A1B2 are identified to communicate from Martinotti+ spots to L1 spots.

Comparing communications on a single object



SST pathways

There's no significant SST- related LR pair are identified from Martinotti+spots L5 to L1.



mart+ (L5)

Layer 1

Comparing communications on a single object

