

Table S5: References for proteins in the MS network that were not annotated with a Gene Ontology term.

Protein	Functional category	Reference
CHI3L1	Apoptotic processes	[1]
LCP2	T-cell and B-cell activation	[2]
TIMP1	Apoptotic processes	[3]
FCRL5	T-cell and B-cell activation	[4]
FYB	T-cell and B-cell activation	[5, 6]

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2. Iyer, V.S., et al., Modulating T-cell activation with antisense oligonucleotides targeting lymphocyte cytosolic protein 2. *Journal of Autoimmunity*, 2022. 131: p. 102857.
3. Ries, C., Cytokine functions of TIMP-1. *Cellular and molecular life sciences*, 2014. 71(4): p. 659-672.
4. Chorazy, M., et al., Variants of Novel Immunomodulatory Fc Receptor Like 5 Gene Are Associated With Multiple Sclerosis Susceptibility in the Polish Population. *Frontiers in Neurology*, 2021. 12: p. 631134.
5. Griffiths, E.K., et al., Positive regulation of T cell activation and integrin adhesion by the adapter Fyb/Slap. *Science*, 2001. 293(5538): p. 2260-2263.
6. Gao, Y., et al., Identification of gene modules associated with survival of diffuse large B-cell lymphoma treated with CHOP-based chemotherapy. *The pharmacogenomics journal*, 2020. 20(5): p. 705-716.