Supplementary figures 1-4

Plasma levels of mir-34a-5p correlate with systemic inflammation and low naïve CD4 T cells in common variable immunodeficiency

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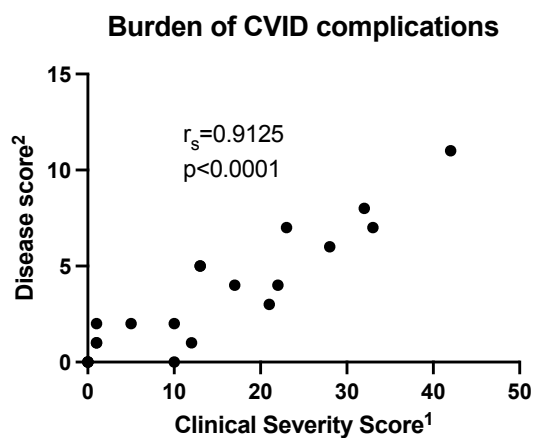*Corresponding author: sofia.c.nystrom@liu.se

Burden of CVID complications

$r_s = 0.9125$
$p < 0.0001$

Disease score[2] (y-axis)

Clinical Severity Score[1] (x-axis)

Fig S1. Validation of the CVID disease scoring system. Correlations of the CVID-related immune dysregulation scoring system used in this study (2) with an independent, more extensive CVID disease scoring system introduced by Ameratunga in 2018 (1).

1. **Ameratunga R**. Assessing Disease Severity in Common Variable Immunodeficiency Disorders (CVID) and CVID-Like Disorders. Front Immunol. 2018 Sep 28;9:2130. doi: 10.3389/fimmu.2018.02130. PMID: 30323807; PMCID: PMC6172311.
2. **Hultberg J**, Ernerudh J, Larsson M, Nilsdotter-Augustinsson Å, Nyström S. Plasma protein profiling reflects TH1-driven immune dysregulation in common variable immunodeficiency. J Allergy Clin Immunol. 2020 Aug;146(2):417-428. doi: 10.1016/j.jaci.2020.01.046. Epub 2020 Feb 11. PMID: 32057767.
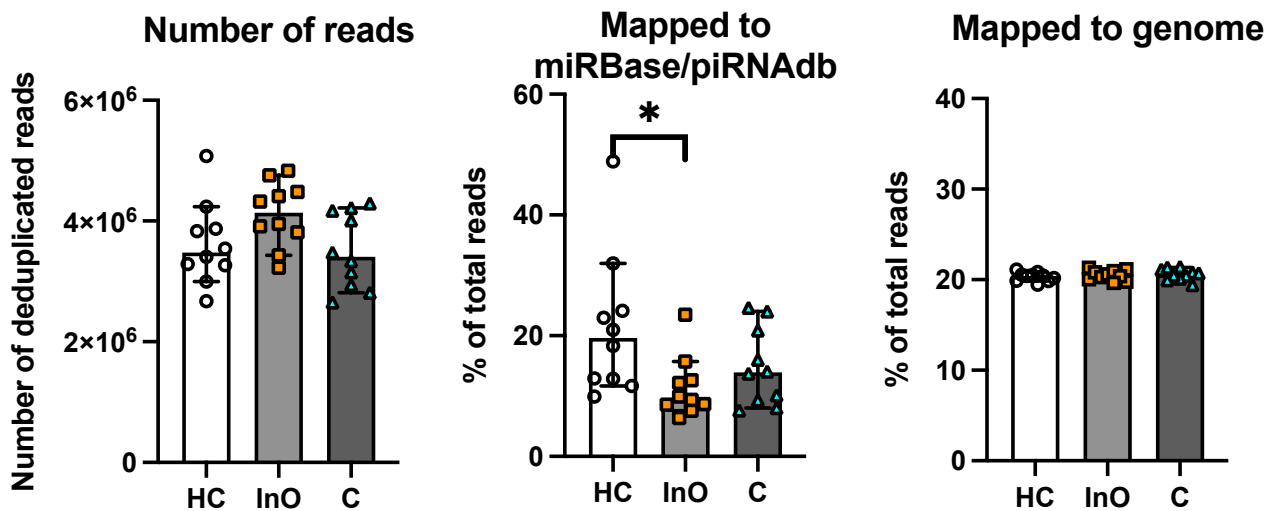
Fig. S2 miRNA mapping statistics and plasma miRNA pattern. Number of deduplicated reads and percentages of reads that were mapped to miRBase/piRNAdb and unannotated reads that were mapped to the genome. Kruskal-Wallis test was used for comparisons between groups. HC, helathy controls; InO, CVID infection-only; C, CVID with immune dysregulation complications. *Indicates p<0.05 Kruskal-Wallis test with Dunn correction.
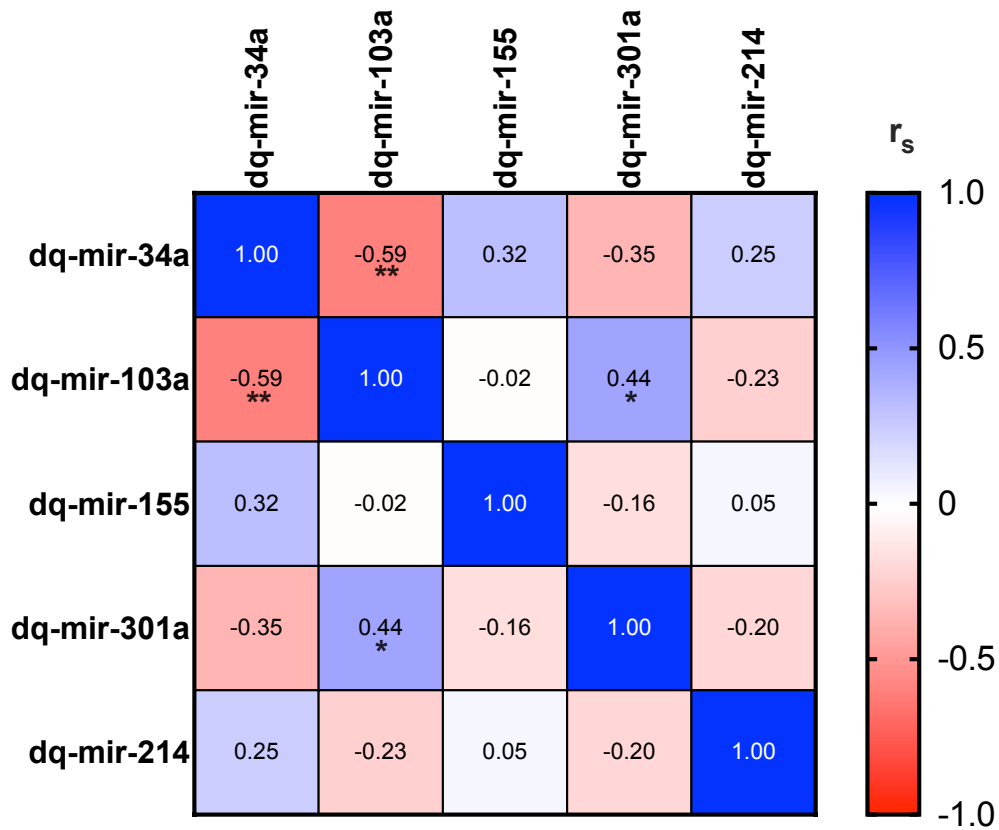
Fig. S3 Correlation of miRNA dCq plasma levels. Spearman correlation matrix of deregulated mir dCq levels show negative correlation between miR-103a and miR-34a and positive correlation between miR-103a and miR-301a. r_s, Spearman correlation; *p<0.05; **p<0.01.
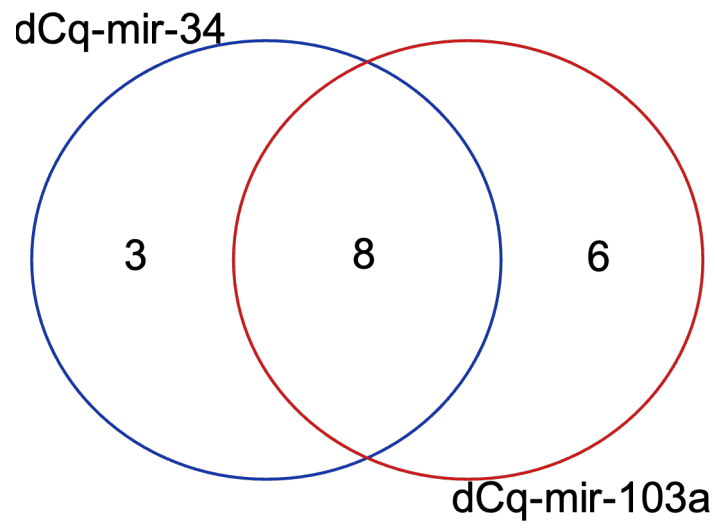
Fig. S4 Overlap of plasma protein correlating with miRNAs. Venn diagram of overlap between plasma inflammatory proteins which correlated positively (r≥0.60, p<0.001) with mir-34a dCq levels and negative (r≤ -0.60, p<0.001) with mir-103a dCq levels.