

**Supplementary figure 5. Volcano plot of metabolomic changes in post-menopause.** Significantly different metabolites at 10% False Discovery Rate (FDR) (y-axis) with  $|\log_2 \text{Fold Change (FC)}| > 0.4$  (x-axis) between pre- ( $n = 33$ ) and post-menopause ( $n = 17$ ) women with LAM not treated with rapamycin. Red, blue, green and grey dots indicate metabolites that are significantly different between conditions at 10% FDR with  $|\log_2 \text{FC}| > 0.4$ , metabolites significant at 10% FDR with  $|\log_2 \text{FC}| < 0.4$ , non-significant at 10% FDR with  $|\log_2 \text{FC}| > 0.4$  and overall NS = non-significant, respectively. All downregulated metabolites, but 'chiro-inositol' belongs to the 'steroid' sub-pathway. \*Compounds identified without confirmation by a standard. Full results are provided in supplementary table 4.

