

Supplementary Table 4: Age-adjusted gene set enrichment analysis showing the top ten gene sets upregulated and downregulated in tumor-adjacent normal prostate tissue of ever (n=10) versus never (n=103) statin users, ordered by the normalized enrichment score.

KEGG pathway	Size	ES	NES	P-value	FDR
<i>Upregulated</i>					
T_cell_receptor_signaling_pathway	108	0.50	1.95	<0.001	0.091
Intestinal_immune_network_for_IgA_production	46	0.60	1.86	0.019	0.138
Leishmania_infection	70	0.56	1.84	0.008	0.116
Primary_immunodeficiency	35	0.59	1.79	0.010	0.156
Asthma	29	0.62	1.75	0.025	0.185
Prion_diseases	35	0.53	1.73	0.014	0.172
Regulation_of_actin_cytoskeleton	209	0.43	1.72	0.018	0.171
Systemic_lupus_erythematosus	128	0.44	1.70	0.016	0.175
Viral_myocarditis	69	0.51	1.65	0.036	0.240
RNA_degradation	57	0.55	1.61	0.039	0.292
<i>Downregulated</i>					
Beta_alanine_metabolism	22	-0.56	-1.66	0.015	0.812
Valine_leucine_and_isoleucine_degradation	44	-0.57	-1.62	0.032	0.578
PPAR_signaling_pathway	68	-0.39	-1.53	0.025	0.758
Alpha_lineolic_acid_metabolism	18	-0.50	-1.50	0.039	0.695
Terpenoid_backbone_synthesis	15	-0.57	-1.44	0.087	0.761
O_glycan_synthesis	30	-0.43	-1.44	0.056	0.640
Steroid_biosynthesis	16	-0.58	-1.41	0.134	0.657
Primary_bile_acid_biosynthesis	16	-0.47	-1.40	0.087	0.604
Pantothenate_and_CoA_biosynthesis	16	-0.45	-1.39	0.074	0.557
Fatty_acid_metabolism	39	-0.43	-1.39	0.085	0.509

Abbreviations: ES=enrichment score; NES=normalized enrichment score; FDR=false discovery rate