

Table S7. Significantly enriched Reactome pathways identified in functional interaction network analysis of loci with PDR-associated CpGs (FDR<0.05) or differentially methylated regions (Šidák value<0.05)

Network Module	Top-level Pathway	Sub-pathway	Sub-sub-pathway	p-value	FDR	Node(s)
1	Vesicle-mediated transport	Membrane Trafficking	RAB GEFs exchange GTP for GDP on RABs	0.012	0.013	<i>RIN2</i>
1	Transport of small molecules	SLC-mediated transmembrane transport	Transport of bile salts and organic acids, metal ions and amine compounds	0.004	0.007	<i>SLC44A4</i>
1	Metabolism	Metabolism of Lipids	Glycerophospholipid biosynthesis	0.007	0.007	<i>SLC44A4</i>
2	Metabolism	Metabolism of Carbohydrates	Blood group systems biosynthesis	0.001	0.002	<i>FUT4</i>
4	Signal Transduction	MTOR signalling	n/a	0.007	0.009	<i>FKBP1A</i>
4	Signal Transduction	Signaling by TGFB family members	Signaling by TGF-beta Receptor Complex	0.015	0.015	<i>FKBP1A</i>