

Supplementary Information

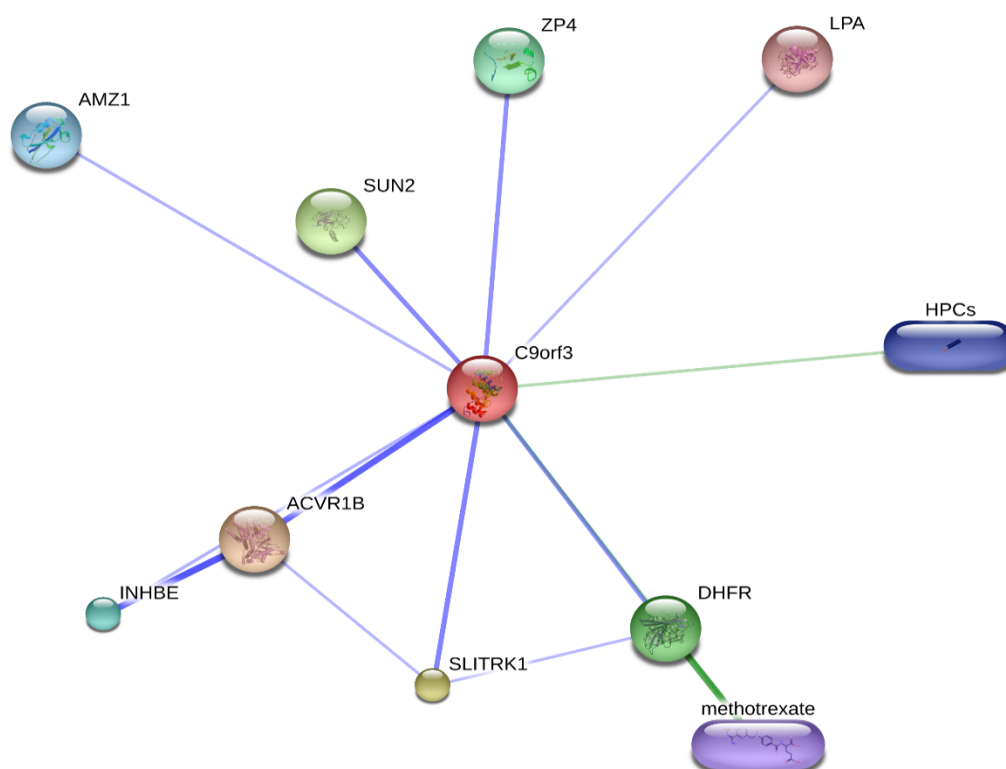
Family-based analysis of eight susceptibility loci in polycystic ovary syndrome

Shigang Zhao^{a,b¶}, Ye Tian^{a¶}, Xuan Gao^{b¶}, Xiuqing Zhang^b, Hongbin Liu^{b,c}, Li You^b, Yongzhi

Cao^b, Shizhen Su^b, Wai-Yee Chan^c, Yun Sun^a, Han Zhao^{b*}, Zi-Jiang Chen^{a,b*}

Supplementary Information: Titles and Captions

Supplementary Figure S1. The interaction networks of C9orf3 with other proteins predicated by String database. ACVR1B: activin A receptor, type IB; SLITRK1: SLIT and NTRK-like family, member 1; SUN2: unc-84 homolog B; DHFR: dihydrofolate reductase; ZP4: zona pellucida glycoprotein 4; INHBE: inhibin, beta E; AMZ1: archaelysin family metalloproteinase 1; LPA: lipoprotein, Lp (a); ATP7A: ATPase, Cu⁺⁺ transporting, alpha polypeptide; FAM22F: family with sequence similarity 22, member F.



Supplementary Table S1. MAFs of 321 PCOS probands and 1510 PCOS GWAS subjects

SNP	CHR	Nearby Gene	MAF		
			GWAS-Control (n=2016)	GWAS-PCOS (n=1510)	TDT-PCOS (n=321)
rs2268361	2	<i>FSHR</i>	0.496	0.446	0.442
rs2349415	2	<i>FSHR</i>	0.181	0.227	0.189
rs4385527	9	<i>C9orf3</i>	0.219	0.148	0.148
rs3802457	9	<i>C9orf3</i>	0.096	0.060	0.071
rs1894116	11	<i>YAP1</i>	0.194	0.226	0.235
rs705702	12	<i>RAB5B</i>	0.245	0.304	0.321
rs2272046	12	<i>HMGA2</i>	0.093	0.066	0.077
rs4784165	16	<i>TOX3</i>	0.325	0.387	0.335
rs2059807	19	<i>INSR</i>	0.301	0.335	0.312
rs6022786	20	<i>SUMO1P1</i>	0.339	0.368	0.364

CHR: chromosome; MAF: Minor Allele Frequency.