

Supplementary Table S8: Intersection of AI SNPs FDR05 with HipOA SNPs with P05										
SNP	whole Gene Symbol AI	Allele1 hip	Allele2 hip	Freq1 hip	Effect hip	Pvalue hip	Observed Ref Alleles AI	Observed Alt Alleles AI	metaPhi AI	FDR AI
rs1126823	ACAN	a	g	0.76	0.13	2.51E-03	A	G	0.489	1.06E-05
rs2280465	ACAN	a	g	0.22	-0.09	2.82E-03	G	A	0.364	5.13E-03
rs3210458	ACPL2	t	c	0.08	-0.13	4.33E-03	C	T	0.419	1.65E-02
rs1378602	ALKBH5	a	g	0.63	0.09	2.78E-04	G	A	0.588	1.06E-06
rs9174	ANAPC4	t	c	0.42	0.06	1.90E-02	T	C	0.432	9.35E-04
rs1054707	BDH2	t	c	0.84	0.08	2.35E-02	T	C	0.612	3.33E-05
rs3087835	C12orf57	a	g	0.71	0.06	2.69E-02	A	G	0.570	2.37E-02
rs1044189	C12orf57	a	c	0.71	0.06	2.77E-02	A	C	0.601	1.76E-03
rs1056425	C1orf123	a	g	0.34	-0.07	1.08E-02	G	A	0.449	2.17E-02
rs12418	CHST3	a	g	0.50	0.07	5.89E-03	G	A	0.442	2.53E-12
rs730720	CHST3	t	c	0.50	0.07	7.97E-03	C	T	0.437	3.70E-11
rs731027	CHST3	t	c	0.50	-0.06	8.71E-03	T	C	0.460	1.15E-04
rs4148949	CHST3	t	c	0.37	-0.07	1.09E-02	T	C	0.449	2.98E-02
rs4148946	CHST3	t	c	0.63	0.07	1.11E-02	C	T	0.453	1.25E-02
rs2229783	COL11A1	a	g	0.39	-0.08	2.60E-03	A	G	0.528	6.54E-07
rs7499	COL18A1	a	g	0.40	-0.05	3.32E-02	G	A	0.630	1.95E-11
rs2276454	COL2A1	a	g	0.38	-0.08	1.99E-03	G	A	0.491	1.14E-03
rs1635553	COL2A1	a	g	0.54	0.06	1.61E-02	A	G	0.512	0.00E+00
rs3088026	COL6A2	t	c	0.09	-0.12	5.54E-03	C	T	0.532	5.46E-03
rs2646108	CRISPLD2	a	g	0.19	0.09	5.29E-03	G	A	0.625	2.62E-09
rs4783099	CRISPLD2	t	c	0.38	-0.06	3.06E-02	C	T	0.441	5.41E-03
rs2641670	CRISPLD2	a	g	0.23	0.06	3.43E-02	G	A	0.577	7.55E-03
rs1127648	CSPG4	a	g	0.41	-0.05	4.60E-02	A	G	0.118	0.00E+00
rs2994953	CTBS	a	g	0.25	-0.06	3.01E-02	G	A	0.560	4.92E-04
rs15911	CTBS	t	c	0.22	-0.07	3.32E-02	C	T	0.551	8.15E-03
rs1050448	EIF2B1	a	g	0.32	0.06	3.11E-02	G	A	0.549	3.95E-02
rs597570	FEZ1	a	t	0.82	-0.07	3.78E-02	A	T	0.634	4.79E-02
rs4605	FMOD	c	g	0.46	-0.09	5.68E-03	G	C	0.936	0.00E+00
rs7208	FMOD	a	g	0.20	-0.08	3.14E-02	G	A	0.964	0.00E+00
rs2488	FSTL1	t	c	0.50	-0.06	1.31E-02	C	T	0.479	2.00E-05
rs1056928	FSTL1	a	g	0.50	-0.06	1.52E-02	G	A	0.523	2.01E-02
rs2897	H2AFV	a	g	0.17	0.08	2.03E-02	A	G	0.581	7.24E-06
rs1064767	HDLBP	t	c	0.80	-0.08	7.91E-03	T	C	0.438	1.27E-02
rs15129	HDLBP	t	c	0.80	-0.08	9.70E-03	T	C	0.463	3.27E-06
rs1054627	IBSP	a	g	0.31	0.06	1.75E-02	G	A	0.426	1.43E-13
rs1054629	IBSP	a	t	0.69	-0.06	1.90E-02	A	T	0.411	0.00E+00
rs8513	LRRC15	t	c	0.28	0.06	3.44E-02	C	T	0.526	3.41E-02
rs1058840	LTBP1	a	g	0.69	-0.07	8.98E-03	G	A	0.580	6.24E-04
rs12354	LTBR	t	g	0.30	0.06	4.38E-02	T	G	0.434	9.55E-04
rs3087678	MIR100HG	a	g	0.22	-0.07	1.51E-02	G	A	0.453	2.99E-02
rs17598561	NMB	t	c	0.06	-0.13	1.25E-02	C	T	0.412	3.41E-02
rs1044268	NRP1	t	c	0.12	-0.12	1.30E-03	C	T	0.611	4.94E-02
rs7772	PCOLCE2	c	g	0.79	-0.08	9.66E-03	C	G	0.506	2.12E-02
rs1050382	PECAM1	a	g	0.55	0.06	2.64E-02	G	A	0.614	3.66E-02
rs6558405	PLEC	t	c	0.58	-0.08	2.50E-03	T	C	0.465	2.16E-02
rs7819099	PLEC	a	g	0.59	-0.07	4.97E-03	A	G	0.437	1.77E-03
rs6558406	PLEC	t	c	0.56	-0.06	1.12E-02	T	C	0.448	6.54E-03
rs6710	PLOD2	t	c	0.51	0.07	2.52E-03	T	C	0.481	1.71E-02
rs12261209	PPP1R3C	t	c	0.08	-0.12	6.53E-03	C	T	0.446	1.48E-05
rs2023953	RBM6	a	g	0.11	0.15	1.53E-02	G	A	0.588	5.23E-04
rs3133187	RPS3	a	g	0.95	-0.18	1.05E-03	A	G	0.416	4.97E-09
rs6647	SERPINA1	a	g	0.76	0.06	3.88E-02	A	G	0.410	0.00E+00
rs1061280	SMO	a	g	0.87	-0.11	3.31E-03	A	G	0.541	2.88E-03
rs9607	SMO	a	g	0.16	0.09	7.36E-03	A	G	0.466	2.58E-02
rs3163	TKT	t	c	0.19	-0.08	1.10E-02	C	T	0.563	4.29E-03
rs1051485	TKT	t	c	0.81	0.08	1.13E-02	T	C	0.575	2.35E-02
rs7619507	TMEM45A	t	c	0.51	0.05	4.27E-02	T	C	0.405	3.20E-02
rs12347433	TNC	t	c	0.72	0.06	2.56E-02	T	C	0.516	9.77E-06
rs16927166	TNNT3	t	c	0.99	-0.46	3.93E-02	T	C	0.607	1.17E-02

SNP	whole Gene Symbol AI	Allele1 hip	Allele2 hip	Freq1 hip	Effect hip	Pvalue hip	Observed Ref Alleles AI	Observed Alt Alleles AI	metaPhi AI	FDR AI
rs6554	UBA52	t	g	0.61	0.05	4.16E-02	G	T	0.428	0.00E+00
rs3025000	VEGFA	t	c	0.33	-0.07	5.60E-03	C	T	0.592	4.58E-06
rs7237	WDR73	t	c	0.27	0.06	3.57E-02	C	T	0.651	2.61E-02
rs2270844	WWP2	t	c	0.05	-0.12	4.52E-02	C	T	0.560	1.43E-02
rs11436	ZCCHC17	t	c	0.40	-0.06	1.96E-02	T	C	0.552	3.48E-02
rs4664	ZNF83	a	t	0.21	0.08	1.51E-02	T	A	0.555	2.63E-04