

Supplementary Table S1

The literature data about associations of the studied polymorphisms of the candidate genes with osteoarthritis

Chr	SNP	Gene	Phenotype	Association, significance (associated allele/genotype/ haplotype)	Reference
1	rs2820436	<i>LYPLALI</i>	HOA	OR=0.93, p=9.4x10 ⁻⁰⁹ (C)	Styrkarsdottir et al., 2018
			OA	OR=0.93, p=2.01x10 ⁻⁰⁹ (C)	Zengini et al., 2018
			KOA and/or HOA	OR=0.95, p=2.44x10 ⁻⁰⁹ (C)	Tachmazidou et al., 2019
1	rs2820443	<i>LYPLALI</i>	KOA and/or HOA	OR=1.06, p=6.01x10 ⁻¹¹ (C)	Tachmazidou et al. 2019
2	rs3771501	<i>TGFA</i>	HOA	OR=0.93, p=1.7 x10 ⁻⁰⁸ (G)	Styrkarsdottir et al., 2018
			OA	OR=0.94, p=1.66 x10 ⁻⁰⁸ (G)	Zengini et al., 2018
			KOA and/or HOA	OR=0.95, p=1.84 x10 ⁻¹² (G)	Tachmazidou et al., 2019
			HOA	OR=0.92, p=1.05 x10 ⁻¹³ (G)	Tachmazidou et al., 2019
			OA	OR=0.96, p=4.24x10 ⁻¹⁶ (G)	Tachmazidou et al., 2019
			Hand OA	OR=1.08, p=1.9 x10 ⁻¹⁰ (A)	Boer et al., 2021
			THR	OR=1.07, p=1.6 x10 ⁻¹⁰ (A)	Boer et al., 2021
			TJR	OR=1.06, p=8.3 x10 ⁻¹¹ (A)	Boer et al., 2021
			KOA and/or HOA	OR=1.04, p=8.8 x10 ⁻¹³ (A)	Boer et al., 2021
			HOA	OR=1.07, p=6.6 x10 ⁻¹³ (A)	Boer et al., 2021
			OA	OR=1.04, p=4.05x10 ⁻¹⁵ (A)	Boer et al., 2021
3	rs11177	<i>GNL3</i>	OA	OR=1.09, p=5.13 x10 ⁻⁰⁹ (A)	Zeggini et al., 2012
			TJR	OR=1.12, p=1.25 x10 ⁻¹⁰ (A)	Zeggini et al., 2012
			HOA	OR=1.07, p=6.5 x10 ⁻⁰⁸ (A)	Styrkarsdottir et al., 2018
3	rs6976	<i>GLT8D1</i>	OA	OR=1.09, p=6.56 x10 ⁻⁰⁹ (T)	Zeggini et al., 2012
			TJR	OR=1.12, p=7.24 x10 ⁻¹¹ (T)	Zeggini et al., 2012
			HOA	OR=1.07, p=4.5 x10 ⁻⁰⁸ (T)	Styrkarsdottir et al., 2018
			KOA and/or HOA	OR=1.05, p=2.04 x10 ⁻¹⁰ (T)	Tachmazidou et al., 2019

			HOA	OR=1.08, p=3.10 x10 ⁻¹¹ (T)	Tachmazidou et al., 2019
12	rs1060105	<i>SBNO1</i>	KOA	OR=1.07, p=1.9x10 ⁻⁰⁸ (C)	Styrkarsdottir et al., 2018
12	rs56116847	<i>SBNO1</i>	KOA	OR=1.06, p=3.19x10 ⁻¹⁰ (A)	Tachmazidou et al., 2019
16	rs6499244	<i>NFAT5</i>	KOA	OR=1.06, p=3.88x10 ⁻¹¹ (A)	Tachmazidou et al., 2019
20	rs34195470	<i>WWP2</i>	KOA	OR=1.07, p=2.7x10 ⁻¹¹ (G)	Styrkarsdottir et al., 2018
			TKR	OR=0.93, p=3.2x10 ⁻¹⁰ (A)	Boer et al., 2021
			KOA	OR=0.95, p=3.1x10 ⁻¹³ (A)	Boer et al., 2021
20	rs143384	<i>GDF5</i>	OA	OR=1.05, p=2.1x10 ⁻¹⁰ (A)	Styrkarsdottir et al., 2018
			KOA	OR=1.10, p=1.4x10 ⁻¹⁹ (A)	Styrkarsdottir et al., 2018
			KOA	OR=0.91, p=4.2x10 ⁻²³ (G)	Styrkarsdottir et al., 2019
			KOA	OR=1.1, p=4.77x10 ⁻²³ (A)	Tachmazidou et al., 2019
			OA	OR=1.03, p=3.04x10 ⁻¹¹ (A)	Boer et al., 2021
			TJR	OR=1.06, p=5.9x10 ⁻¹² (A)	Boer et al., 2021
			TKR	OR=1.10, p=6.2x10 ⁻¹⁵ (A)	Boer et al., 2021
			KOA and/or HOA	OR=1.06, p=1.2x10 ⁻²⁰ (A)	Boer et al., 2021
			KOA	OR=1.07, p=1.01x10 ⁻²³ (A)	Boer et al., 2021

Note: OA–osteoarthritis; KOA–knee osteoarthritis; HOA–hip osteoarthritis; KOA and/or HOA–knee and/or hip osteoarthritis; TKR–total knee replacement; THR–total hip replacement; TJR–total joint replacement.