

Table S1 Detailed information on the GWAS datasets

Trait	Exposure or Outcome	Database/Consortium	Year	GWAS ID	Sample size	Population	PMID
Percentage fat in milk consumption	Exposure	UK biobank	2022	ebi-a-GCST90096916	411503	European	35653391
Body fat percentage	Exposure	UK biobank	2021	ebi-a-GCST90013975	401772	European	34017140
Breast cancer	Outcome	BCAC, DRIVE	2017	ebi-a-GCST004988	139274	European	29059683
Ovarian cancer	Outcome	OCAC, CIMBA	2017	ieu-a-1120	66450	European	28346442
Endometrial cancer	Outcome	ECAC, E2C2, UK biobank	2018	ebi-a-GCST006464	121885	European	30093612
Colorectal cancer	Outcome	GECCO, CORECT, CCFR	2018	ebi-a-GCST012879	32072	European	30510241
Prostate cancer	Outcome	OncoArray	2018	ebi-a-GCST006085	140254	European	29892016
Bladder cancer	Outcome	UK biobank	2021	ieu-b-4874	373295	European	-

GWAS, genome wide association study; ID, identity document; UK, United Kingdom; BCAC, Breast Cancer Association Consortium; DRIVE, Discovery; OCAC, Ovarian Cancer Association Consortium; CIMBA, Consortium of Investigators of Modifiers of BRCA; ECAC, Endometrial Cancer Association Consortium; GECCO, Genetics and Epidemiology of Colorectal Cancer Consortium; CORECT, Colorectal Cancer Transdisciplinary Study; CCFR, Colon Cancer Family Registry.

Table S2 Characteristics of the selected genetic instruments for percentage fat in milk consumption

SNP	Effect Allele	Other Allele	beta	SE	P	Sample Size	GWAS ID	F value
rs3101336	C	T	-0.00310666	0.000398936	6.84E-15	411503	ebi-a-GCST90096916	60.64274939
rs4953152	A	G	0.00246788	0.000422978	5.39E-09	411503	ebi-a-GCST90096916	34.04163473
rs4430895	T	C	-0.00222349	0.000391954	1.40E-08	411503	ebi-a-GCST90096916	32.18088983
rs3817334	T	C	-0.00271328	0.000397127	8.36E-12	411503	ebi-a-GCST90096916	46.67972473
rs10875917	T	G	-0.00215983	0.000395011	4.56E-08	411503	ebi-a-GCST90096916	29.89638297
rs55872725	T	C	-0.00447902	0.000398925	2.98E-29	411503	ebi-a-GCST90096916	126.061185
rs538656	T	G	-0.00322867	0.000462233	2.85E-12	411503	ebi-a-GCST90096916	48.7891566
rs7412	T	C	0.00446346	0.000717991	5.08E-10	411503	ebi-a-GCST90096916	38.64587837
rs136872	G	A	0.00429606	0.000658052	6.65E-11	411503	ebi-a-GCST90096916	42.6204606

Table S3 Characteristics of the selected genetic instruments for body fat percentage

SNP	Effect Allele	Other Allele	beta	SE	p	Sample Size	GWAS ID	F value
rs301806	T	C	0.0103514	0.00161258	1.37E-10	401772	ebi-a-GCST90013975	41.20533807
rs7517023	G	A	-0.012537	0.00214765	5.30E-09	401772	ebi-a-GCST90013975	34.07674286
rs3766823	A	G	0.0138099	0.00210782	5.69E-11	401772	ebi-a-GCST90013975	42.92515417
rs147860177	G	T	0.0114348	0.00190133	1.81E-09	401772	ebi-a-GCST90013975	36.16928991
rs241472	T	C	-0.0136317	0.00170296	1.20E-15	401772	ebi-a-GCST90013975	64.07505437
rs2815764	G	A	0.0202573	0.00201538	9.06E-24	401772	ebi-a-GCST90013975	101.029236
rs35154152	C	T	-0.0193483	0.00257509	5.75E-14	401772	ebi-a-GCST90013975	56.45450953
rs815163	C	T	-0.00986245	0.00160015	7.12E-10	401772	ebi-a-GCST90013975	37.98796903
rs1377184	T	A	0.0116723	0.00184803	2.68E-10	401772	ebi-a-GCST90013975	39.8926316
rs12130231	G	A	-0.0202234	0.00161397	5.10E-36	401772	ebi-a-GCST90013975	157.0056445
rs2678204	G	T	0.0133591	0.00167766	1.68E-15	401772	ebi-a-GCST90013975	63.4080416
rs72634814	A	G	-0.0135136	0.00174655	1.02E-14	401772	ebi-a-GCST90013975	59.86567883
rs4908676	G	A	0.00978316	0.00159998	9.68E-10	401772	ebi-a-GCST90013975	37.3875531
rs281826	T	C	0.00931142	0.00161837	8.74E-09	401772	ebi-a-GCST90013975	33.10350904
rs12030345	A	G	-0.0161448	0.00295098	4.47E-08	401772	ebi-a-GCST90013975	29.93164906
rs1013293	A	G	-0.0143939	0.00161042	3.96E-19	401772	ebi-a-GCST90013975	79.88706936
rs7527674	C	T	-0.00902891	0.00163705	3.48E-08	401772	ebi-a-GCST90013975	30.41897653
rs11205303	C	T	0.018156	0.0016176	3.11E-29	401772	ebi-a-GCST90013975	125.9783482
rs79518326	A	C	-0.0286995	0.00485702	3.44E-09	401772	ebi-a-GCST90013975	34.91457144
rs12042959	G	A	-0.0143938	0.00226732	2.18E-10	401772	ebi-a-GCST90013975	40.30167793
rs2038646	G	C	0.0144089	0.00161962	5.77E-19	401772	ebi-a-GCST90013975	79.14677633
rs41279738	G	T	0.0437264	0.00501669	2.88E-18	401772	ebi-a-GCST90013975	75.97150928
rs543874	G	A	0.0283325	0.0019578	1.83E-47	401772	ebi-a-GCST90013975	209.4261865
rs10801366	T	C	-0.0105465	0.00165021	1.65E-10	401772	ebi-a-GCST90013975	40.84473879
rs2802774	A	C	0.0112466	0.00162043	3.91E-12	401772	ebi-a-GCST90013975	48.1703483
rs11122450	G	T	-0.00915296	0.00163239	2.06E-08	401772	ebi-a-GCST90013975	31.43931794
rs12144626	C	T	-0.0115792	0.00161596	7.75E-13	401772	ebi-a-GCST90013975	51.34447716
rs12039708	T	C	0.0174242	0.00203246	1.01E-17	401772	ebi-a-GCST90013975	73.4952918
rs75641275	C	A	0.0153252	0.00226318	1.27E-11	401772	ebi-a-GCST90013975	45.85344255
rs2306937	T	C	-0.0151885	0.00198385	1.92E-14	401772	ebi-a-GCST90013975	58.61515875
rs62106258	C	T	-0.0507623	0.00370261	8.86E-43	401772	ebi-a-GCST90013975	187.9595867
rs7609467	C	T	0.0118543	0.00165976	9.19E-13	401772	ebi-a-GCST90013975	51.01044097
rs4671328	G	T	-0.0137302	0.00161157	1.60E-17	401772	ebi-a-GCST90013975	72.58605884
rs6545714	A	G	-0.014856	0.00162619	6.51E-20	401772	ebi-a-GCST90013975	83.45628478
rs441792	G	A	0.0111563	0.00159507	2.67E-12	401772	ebi-a-GCST90013975	48.91912864
rs3771652	C	T	-0.00988634	0.00178459	3.03E-08	401772	ebi-a-GCST90013975	30.68965542
rs10182458	G	A	0.0231837	0.00159088	4.18E-48	401772	ebi-a-GCST90013975	212.3677132
rs58300328	A	G	-0.0136251	0.00162684	5.51E-17	401772	ebi-a-GCST90013975	70.14351912
rs114964326	A	G	-0.0269488	0.00473195	1.23E-08	401772	ebi-a-GCST90013975	32.43369338
rs764729	C	A	0.0102227	0.00179407	1.21E-08	401772	ebi-a-GCST90013975	32.4676086
rs2129475	G	A	0.0104352	0.0016335	1.68E-10	401772	ebi-a-GCST90013975	40.80948505
rs10930925	T	C	-0.0113272	0.00171219	3.70E-11	401772	ebi-a-GCST90013975	43.76622242
rs79847714	C	T	-0.0117246	0.0019018	7.05E-10	401772	ebi-a-GCST90013975	38.00705525
rs4482463	A	C	-0.0226069	0.00301221	6.14E-14	401772	ebi-a-GCST90013975	56.32605989
rs4670169	G	A	0.00948323	0.00166882	1.33E-08	401772	ebi-a-GCST90013975	32.29173753
rs113019802	A	G	-0.014248	0.00191269	9.39E-14	401772	ebi-a-GCST90013975	55.49022381
rs62147189	G	T	-0.00950006	0.00166278	1.11E-08	401772	ebi-a-GCST90013975	32.64231491
rs778094	A	G	-0.0107532	0.00161215	2.56E-11	401772	ebi-a-GCST90013975	44.48999835
rs4972476	A	G	-0.0186297	0.00260356	8.34E-13	401772	ebi-a-GCST90013975	51.20052093
rs7584496	A	G	0.00960706	0.00164949	5.74E-09	401772	ebi-a-GCST90013975	33.92184538
rs13028310	C	T	0.0280843	0.00211937	4.44E-40	401772	ebi-a-GCST90013975	175.594731
rs934224	T	C	0.0106496	0.00182535	5.40E-09	401772	ebi-a-GCST90013975	34.03863451
rs58120873	A	G	-0.0184662	0.0028411	8.05E-11	401772	ebi-a-GCST90013975	42.24544291
rs12619178	T	C	-0.0135793	0.00162075	5.37E-17	401772	ebi-a-GCST90013975	70.1973219
rs13389219	T	C	0.0174481	0.00162632	7.47E-27	401772	ebi-a-GCST90013975	115.1018001
rs57235969	T	C	0.00975605	0.00159888	1.05E-09	401772	ebi-a-GCST90013975	37.23180855
rs2164840	G	A	-0.0101632	0.00167197	1.21E-09	401772	ebi-a-GCST90013975	36.94892614
rs66765674	C	T	0.0131472	0.0016758	4.32E-15	401772	ebi-a-GCST90013975	61.54885884
rs13015202	A	G	0.0147035	0.00169668	4.47E-18	401772	ebi-a-GCST90013975	75.09990866
rs4669869	C	T	0.00954632	0.00160553	2.75E-09	401772	ebi-a-GCST90013975	35.3535447
rs10496731	G	T	-0.0104447	0.00166204	3.29E-10	401772	ebi-a-GCST90013975	39.49179151
rs73985439	C	A	0.0102545	0.00172541	2.79E-09	401772	ebi-a-GCST90013975	35.32174862
rs2176040	G	A	-0.0159616	0.0016631	8.19E-22	401772	ebi-a-GCST90013975	92.11152175
rs1454687	G	C	-0.015278	0.00158767	6.40E-22	401772	ebi-a-GCST90013975	92.599869
rs4678440	T	A	-0.0127416	0.00222359	1.00E-08	401772	ebi-a-GCST90013975	32.83494912
rs11917587	A	G	0.012836	0.00160539	1.29E-15	401772	ebi-a-GCST90013975	63.92874048
rs4894808	C	G	-0.0107633	0.00165468	7.78E-11	401772	ebi-a-GCST90013975	42.3117213
rs529200	G	A	0.0100202	0.00159152	3.05E-10	401772	ebi-a-GCST90013975	39.63934019
rs1352943	G	C	0.00926875	0.00158762	5.28E-09	401772	ebi-a-GCST90013975	34.08372497
rs9843653	C	T	0.0168056	0.00158959	4.01E-26	401772	ebi-a-GCST90013975	111.7726735
rs9968060	T	C	0.0108419	0.00168891	1.37E-10	401772	ebi-a-GCST90013975	41.20933614
rs3911063	C	T	-0.0118972	0.0017014	2.70E-12	401772	ebi-a-GCST90013975	48.89613212
rs7623618	A	G	-0.010634	0.00159976	2.99E-11	401772	ebi-a-GCST90013975	44.18567388
rs262956	G	T	-0.010068	0.00166346	1.43E-09	401772	ebi-a-GCST90013975	36.63190696
rs6782581	G	C	-0.00979839	0.00159957	9.03E-10	401772	ebi-a-GCST90013975	37.52327881
rs7649970	T	C	0.0298524	0.00243108	1.17E-34	401772	ebi-a-GCST90013975	150.7848963
rs33503	A	G	-0.0125739	0.00200853	3.84E-10	401772	ebi-a-GCST90013975	39.19053539

Table S3 (continued)

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SNP	Effect Allele	Other Allele	beta	SE	p	Sample Size	GWAS ID	F value
rs17639546	A	G	-0.0145193	0.00222596	6.90E-11	401772	ebi-a-GCST90013975	42.54558347
rs76345589	G	C	-0.0203225	0.00318618	1.79E-10	401772	ebi-a-GCST90013975	40.68286113
rs114295766	T	A	-0.0199582	0.00331977	1.83E-09	401772	ebi-a-GCST90013975	36.14303238
rs9839081	A	G	-0.0126806	0.0017219	1.78E-13	401772	ebi-a-GCST90013975	54.23274571
rs2960420	G	C	-0.00956456	0.00167149	1.05E-08	401772	ebi-a-GCST90013975	32.74313544
rs56398417	T	C	-0.0100138	0.00171319	5.06E-09	401772	ebi-a-GCST90013975	34.16525001
rs1436348	G	A	0.0108343	0.00160964	1.69E-11	401772	ebi-a-GCST90013975	45.30457288
rs80082351	G	A	-0.0204539	0.00331592	6.90E-10	401772	ebi-a-GCST90013975	38.04889129
rs9863621	T	C	-0.013549	0.00245291	3.32E-08	401772	ebi-a-GCST90013975	30.51048393
rs1568488	C	G	0.0121996	0.00163073	7.37E-14	401772	ebi-a-GCST90013975	55.96608129
rs75135487	G	C	-0.0145532	0.00231922	3.50E-10	401772	ebi-a-GCST90013975	39.37594036
rs13079866	G	A	-0.0159929	0.00285224	2.06E-08	401772	ebi-a-GCST90013975	31.43982711
rs1388479	T	A	-0.0121644	0.00174076	2.79E-12	401772	ebi-a-GCST90013975	48.83165299
rs704255	A	G	-0.010582	0.00161372	5.47E-11	401772	ebi-a-GCST90013975	43.00084495
rs1491702	A	G	-0.0108466	0.00195682	2.97E-08	401772	ebi-a-GCST90013975	30.72439432
rs2192527	G	A	0.0142817	0.00159388	3.24E-19	401772	ebi-a-GCST90013975	80.2872177
rs1849223	T	C	0.00995657	0.0017081	5.58E-09	401772	ebi-a-GCST90013975	33.97744793
rs34656389	G	A	0.0108815	0.00164356	3.57E-11	401772	ebi-a-GCST90013975	43.83330775
rs1229984	C	T	0.0336825	0.0053621	3.35E-10	401772	ebi-a-GCST90013975	39.45814432
rs112374782	A	G	0.0365071	0.0065559	2.57E-08	401772	ebi-a-GCST90013975	31.00900764
rs7680610	G	A	0.00919704	0.00167924	4.33E-08	401772	ebi-a-GCST90013975	29.99635242
rs3749473	C	T	0.0115527	0.00158861	3.54E-13	401772	ebi-a-GCST90013975	52.88472441
rs6843910	A	T	-0.0100269	0.00159899	3.59E-10	401772	ebi-a-GCST90013975	39.32237224
rs4864201	C	T	-0.00910004	0.00166467	4.59E-08	401772	ebi-a-GCST90013975	29.88327111
rs2798297	A	G	0.0109739	0.00166073	3.90E-11	401772	ebi-a-GCST90013975	43.66382451
rs73213501	C	A	-0.0145232	0.00211521	6.60E-12	401772	ebi-a-GCST90013975	47.1428129
rs4694127	T	C	0.021618	0.00329827	5.59E-11	401772	ebi-a-GCST90013975	42.95922658
rs987469	G	C	-0.0135773	0.00159509	1.71E-17	401772	ebi-a-GCST90013975	72.45265117
rs10794537	G	T	-0.0120048	0.00195423	8.10E-10	401772	ebi-a-GCST90013975	37.7360418
rs3113509	T	C	-0.0105828	0.00179643	3.84E-09	401772	ebi-a-GCST90013975	34.70391071
rs1283032	C	T	-0.0114669	0.00163194	2.12E-12	401772	ebi-a-GCST90013975	49.37209018
rs10938398	A	G	0.0187065	0.00160462	2.09E-31	401772	ebi-a-GCST90013975	135.9059632
rs6847975	A	G	0.0118184	0.00166377	1.22E-12	401772	ebi-a-GCST90013975	50.457837
rs13107325	T	C	0.0328678	0.00302592	1.75E-27	401772	ebi-a-GCST90013975	117.9843015
rs57800857	C	A	-0.0149144	0.00165606	2.14E-19	401772	ebi-a-GCST90013975	81.10680173
rs67913249	G	C	-0.0112486	0.00167664	1.96E-11	401772	ebi-a-GCST90013975	45.01063492
rs6861649	C	T	0.0114712	0.00163022	1.97E-12	401772	ebi-a-GCST90013975	49.51344084
rs73759008	C	T	-0.0146331	0.00251461	5.91E-09	401772	ebi-a-GCST90013975	33.86329722
rs11135450	G	A	0.0112541	0.00169277	2.96E-11	401772	ebi-a-GCST90013975	44.20012224
rs7707628	C	T	-0.0111226	0.00165998	2.08E-11	401772	ebi-a-GCST90013975	44.89570184
rs6875133	C	G	-0.0102899	0.00188536	4.82E-08	401772	ebi-a-GCST90013975	29.78732946
rs7442885	G	C	-0.0141299	0.00195282	4.63E-13	401772	ebi-a-GCST90013975	52.35420703
rs40067	A	G	-0.0157316	0.00211554	1.04E-13	401772	ebi-a-GCST90013975	55.29694598
rs75846784	G	T	-0.0183857	0.0030095	1.00E-09	401772	ebi-a-GCST90013975	37.322393
rs2963457	T	C	0.015342	0.00189246	5.19E-16	401772	ebi-a-GCST90013975	65.72163775
rs61023343	C	A	0.0107801	0.00165769	7.87E-11	401772	ebi-a-GCST90013975	42.28991205
rs6864091	C	T	-0.0180503	0.00165487	1.06E-27	401772	ebi-a-GCST90013975	118.9703997
rs6888037	T	G	0.0112622	0.00184308	9.93E-10	401772	ebi-a-GCST90013975	37.33841997
rs245775	G	A	0.0137816	0.00178733	1.25E-14	401772	ebi-a-GCST90013975	59.45489679
rs4700608	C	T	0.0112408	0.00158778	1.45E-12	401772	ebi-a-GCST90013975	50.12006497
rs34483452	A	C	0.0244276	0.00234013	1.65E-25	401772	ebi-a-GCST90013975	108.9631048
rs254027	A	T	0.0104199	0.00160523	8.52E-11	401772	ebi-a-GCST90013975	42.1357186
rs12517187	T	C	0.00921372	0.00160734	9.91E-09	401772	ebi-a-GCST90013975	32.85884949
rs923609	A	G	-0.0117135	0.00188999	5.73E-10	401772	ebi-a-GCST90013975	38.41069712
rs252749	A	G	-0.01046	0.00183636	1.23E-08	401772	ebi-a-GCST90013975	32.44483416
rs2133561	T	A	-0.0099682	0.00164647	1.41E-09	401772	ebi-a-GCST90013975	36.65419452
rs3736896	C	T	0.0229455	0.00196551	1.73E-31	401772	ebi-a-GCST90013975	136.2832162
rs1970341	A	G	0.0194438	0.00356488	4.92E-08	401772	ebi-a-GCST90013975	29.74885795
rs3846949	T	C	0.0097957	0.0016907	6.88E-09	401772	ebi-a-GCST90013975	33.56878983
rs193276748	G	T	0.0132168	0.00230748	1.02E-08	401772	ebi-a-GCST90013975	32.80760924
rs2388334	G	A	-0.015954	0.00159084	1.14E-23	401772	ebi-a-GCST90013975	100.573603
rs1361108	T	C	-0.0119466	0.00159272	6.35E-14	401772	ebi-a-GCST90013975	56.26102192
rs10946808	G	A	-0.0223405	0.00178555	6.44E-36	401772	ebi-a-GCST90013975	156.5451379
rs28366151	T	C	-0.0215731	0.0024384	8.97E-19	401772	ebi-a-GCST90013975	78.27319329
rs72892910	T	G	0.0234958	0.00211411	1.07E-28	401772	ebi-a-GCST90013975	123.5159806
rs7773916	T	C	-0.0115449	0.00194103	2.72E-09	401772	ebi-a-GCST90013975	35.3764047
rs72995085	C	T	-0.0129362	0.00208327	5.31E-10	401772	ebi-a-GCST90013975	38.5585027
rs1322842	G	A	-0.0112313	0.00163446	6.35E-12	401772	ebi-a-GCST90013975	47.21818622
rs34045288	T	C	0.014987	0.00168067	4.78E-19	401772	ebi-a-GCST90013975	79.51743394
rs57989773	C	T	0.0123339	0.00190182	8.86E-11	401772	ebi-a-GCST90013975	42.05908919
rs314288	C	T	-0.0152469	0.00249585	1.00E-09	401772	ebi-a-GCST90013975	37.31848291
rs9463511	A	G	-0.00977558	0.00173783	1.85E-08	401772	ebi-a-GCST90013975	31.64232058
rs7452651	A	G	-0.0115015	0.00184025	4.11E-10	401772	ebi-a-GCST90013975	39.06188102
rs35523808	A	T	0.0219432	0.00376459	5.58E-09	401772	ebi-a-GCST90013975	33.97522899
rs2253310	G	C	0.0128726	0.00164147	4.43E-15	401772	ebi-a-GCST90013975	61.49849489
rs1182143	C	T	-0.0117482	0.00173588	1.31E-11	401772	ebi-a-GCST90013975	45.80375698

Table S3 (continued)

Table S3 (continued)

SNP	Effect Allele	Other Allele	beta	SE	p	Sample Size	GWAS ID	F value
rs6948959	A	G	-0.0104266	0.0018261	1.13E-08	401772	ebi-a-GCST90013975	32.60124239
rs4718964	T	G	0.0129076	0.00161482	1.31E-15	401772	ebi-a-GCST90013975	63.89113387
rs12375196	A	C	0.0101031	0.00161332	3.79E-10	401772	ebi-a-GCST90013975	39.21625393
rs10953733	A	C	-0.0115084	0.00159975	6.30E-13	401772	ebi-a-GCST90013975	51.75156613
rs972283	G	A	-0.0145337	0.00158536	4.84E-20	401772	ebi-a-GCST90013975	84.04162247
rs541577	G	A	-0.0110816	0.00164142	1.47E-11	401772	ebi-a-GCST90013975	45.57884716
rs6973656	G	A	0.00928187	0.00161881	9.82E-09	401772	ebi-a-GCST90013975	32.87585407
rs6963767	A	G	0.011218	0.00199476	1.87E-08	401772	ebi-a-GCST90013975	31.62622873
rs6973700	G	A	-0.0123229	0.00196826	3.83E-10	401772	ebi-a-GCST90013975	39.1975347
rs13243033	C	T	-0.0155912	0.00203639	1.91E-14	401772	ebi-a-GCST90013975	58.61854196
rs12538435	G	A	-0.011984	0.00180632	3.26E-11	401772	ebi-a-GCST90013975	44.01615047
rs6977416	A	G	-0.011672	0.00169861	6.35E-12	401772	ebi-a-GCST90013975	47.21728841
rs10245306	C	G	0.00959851	0.00172101	2.44E-08	401772	ebi-a-GCST90013975	31.10560794
rs7811825	A	G	0.0142214	0.00233592	1.14E-09	401772	ebi-a-GCST90013975	37.06522251
rs7796825	A	G	0.0116619	0.00210405	2.98E-08	401772	ebi-a-GCST90013975	30.72022216
rs2289379	T	C	-0.0112163	0.00162762	5.53E-12	401772	ebi-a-GCST90013975	47.48878257
rs236660	C	T	0.0139804	0.0016643	4.46E-17	401772	ebi-a-GCST90013975	70.56247518
rs17071931	A	T	0.0123656	0.00212588	6.00E-09	401772	ebi-a-GCST90013975	33.83379656
rs28714450	T	C	-0.0108512	0.00169374	1.49E-10	401772	ebi-a-GCST90013975	41.04496466
rs6986434	C	T	-0.0114691	0.00193441	3.05E-09	401772	ebi-a-GCST90013975	35.15276247
rs1808629	A	G	-0.0165911	0.00171733	4.42E-22	401772	ebi-a-GCST90013975	93.33417364
rs28723563	C	T	0.0111231	0.0016864	4.23E-11	401772	ebi-a-GCST90013975	43.50391427
rs1552284	G	A	-0.0100337	0.00159315	3.01E-10	401772	ebi-a-GCST90013975	39.66493308
rs200119412	C	T	0.0148941	0.00160582	1.78E-20	401772	ebi-a-GCST90013975	86.0265772
rs11781222	C	T	-0.0160234	0.00230591	3.68E-12	401772	ebi-a-GCST90013975	48.28613912
rs11775287	T	C	-0.00950854	0.00159184	2.33E-09	401772	ebi-a-GCST90013975	35.68015125
rs7463186	G	A	0.00871153	0.00158492	3.87E-08	401772	ebi-a-GCST90013975	30.2114813
rs16873050	T	C	0.0126154	0.00197402	1.65E-10	401772	ebi-a-GCST90013975	40.84103993
rs2980888	C	T	0.0110045	0.00173116	2.06E-10	401772	ebi-a-GCST90013975	40.40769245
rs11782074	T	G	0.00952596	0.00165431	8.50E-09	401772	ebi-a-GCST90013975	33.15748297
rs4876611	G	A	0.0185015	0.00176047	7.82E-26	401772	ebi-a-GCST90013975	110.4471365
rs13249935	C	T	0.00925459	0.00165881	2.42E-08	401772	ebi-a-GCST90013975	31.12568479
rs10756798	T	C	-0.0133105	0.00165733	9.64E-16	401772	ebi-a-GCST90013975	64.50131876
rs41307479	G	C	0.0104717	0.0019081	4.06E-08	401772	ebi-a-GCST90013975	30.11826558
rs16916303	G	A	-0.0155038	0.00246567	3.22E-10	401772	ebi-a-GCST90013975	39.53704896
rs67030159	A	G	-0.0138836	0.00249481	2.62E-08	401772	ebi-a-GCST90013975	30.9689921
rs35344761	A	C	-0.0136279	0.00244305	2.43E-08	401772	ebi-a-GCST90013975	31.11651878
rs12339822	G	A	0.0118015	0.0015987	1.56E-13	401772	ebi-a-GCST90013975	54.49269784
rs10993937	C	T	0.0120138	0.00212693	1.62E-08	401772	ebi-a-GCST90013975	31.90452181
rs2789520	A	G	0.00878011	0.00159258	3.52E-08	401772	ebi-a-GCST90013975	30.39451635
rs1415476	T	C	0.0245216	0.00325038	4.55E-14	401772	ebi-a-GCST90013975	56.91505656
rs7035619	T	A	0.0107479	0.00170905	3.20E-10	401772	ebi-a-GCST90013975	39.54900256
rs10982576	C	T	-0.0115258	0.00186159	5.96E-10	401772	ebi-a-GCST90013975	38.33292169
rs62578127	T	C	0.0104066	0.00164122	2.29E-10	401772	ebi-a-GCST90013975	40.20517534
rs1147345	T	A	-0.00941095	0.00161022	5.08E-09	401772	ebi-a-GCST90013975	34.15814966
rs10756713	G	A	-0.0203428	0.00160469	7.93E-37	401772	ebi-a-GCST90013975	160.7078179
rs17770336	T	C	0.0148818	0.00169153	1.39E-18	401772	ebi-a-GCST90013975	77.40149627
rs6480350	C	T	-0.00888842	0.00160892	3.31E-08	401772	ebi-a-GCST90013975	30.51954631
rs41310284	A	C	-0.0195522	0.00263872	1.27E-13	401772	ebi-a-GCST90013975	54.90380994
rs2002023	T	C	0.0106041	0.00161564	5.26E-11	401772	ebi-a-GCST90013975	43.07807356
rs7893571	T	G	0.0105251	0.00168144	3.86E-10	401772	ebi-a-GCST90013975	39.18208571
rs12359819	A	G	0.0165417	0.00179612	3.27E-20	401772	ebi-a-GCST90013975	84.8178815
rs2274224	C	G	-0.0155697	0.00160016	2.24E-22	401772	ebi-a-GCST90013975	94.67417022
rs4752183	G	T	-0.0100154	0.0016071	4.61E-10	401772	ebi-a-GCST90013975	38.83726461
rs2172131	C	T	-0.0110527	0.00160748	6.17E-12	401772	ebi-a-GCST90013975	47.27629633
rs11012732	G	A	0.0168208	0.00168598	1.92E-23	401772	ebi-a-GCST90013975	99.53740065
rs10887578	C	G	0.0094613	0.00159636	3.09E-09	401772	ebi-a-GCST90013975	35.1267355
rs482787	C	T	0.00922846	0.0016918	4.90E-08	401772	ebi-a-GCST90013975	29.75488425
rs10510025	T	C	0.0120121	0.00184369	7.26E-11	401772	ebi-a-GCST90013975	42.44826226
rs16934748	C	T	0.0136405	0.0022116	6.93E-10	401772	ebi-a-GCST90013975	38.0404158
rs67609008	C	T	0.0107008	0.00176382	1.30E-09	401772	ebi-a-GCST90013975	36.80626992
rs7081254	C	T	-0.0111049	0.00196541	1.60E-08	401772	ebi-a-GCST90013975	31.92425855
rs4757144	A	G	0.0127371	0.00161468	3.06E-15	401772	ebi-a-GCST90013975	62.22516017
rs1916039	G	A	0.0108766	0.001838	3.27E-09	401772	ebi-a-GCST90013975	35.01814513
rs12787028	G	A	0.00933177	0.00161081	6.90E-09	401772	ebi-a-GCST90013975	33.56118265
rs7124681	A	C	0.023163	0.00161004	6.28E-47	401772	ebi-a-GCST90013975	206.9732031
rs61903695	G	A	0.0109537	0.00181703	1.66E-09	401772	ebi-a-GCST90013975	36.34087059
rs7948166	A	G	0.0103568	0.00159051	7.44E-11	401772	ebi-a-GCST90013975	42.40101076
rs11030016	T	C	0.0120377	0.00181417	3.24E-11	401772	ebi-a-GCST90013975	44.02799492
rs3802851	C	T	-0.0108493	0.00182491	2.76E-09	401772	ebi-a-GCST90013975	35.34421763
rs719802	C	T	-0.0114086	0.00162622	2.29E-12	401772	ebi-a-GCST90013975	49.21573204
rs61888762	G	C	0.0183228	0.00169525	3.14E-27	401772	ebi-a-GCST90013975	116.8191426
rs7122950	T	C	-0.0104521	0.00175673	2.69E-09	401772	ebi-a-GCST90013975	35.3993196
rs34292685	T	C	-0.0156928	0.00214804	2.76E-13	401772	ebi-a-GCST90013975	53.37206288
rs4073582	A	G	-0.0140406	0.00165274	1.97E-17	401772	ebi-a-GCST90013975	72.17056344
rs654718	C	T	-0.00973017	0.00169159	8.82E-09	401772	ebi-a-GCST90013975	33.08632078

Table S3 (continued)

Table S3 (continued)

SNP	Effect Allele	Other Allele	beta	SE	p	Sample Size	GWAS ID	F value
rs11222371	T	C	0.0107068	0.00161232	3.12E-11	401772	ebi-a-GCST90013975	44.09757791
rs2723615	T	C	0.00899973	0.00164734	4.68E-08	401772	ebi-a-GCST90013975	29.84628702
rs61910767	T	C	-0.015023	0.00213235	1.85E-12	401772	ebi-a-GCST90013975	49.63570464
rs11042030	C	T	-0.0136213	0.00177985	1.96E-14	401772	ebi-a-GCST90013975	58.56904578
rs59227842	G	A	0.0162489	0.00172733	5.11E-21	401772	ebi-a-GCST90013975	88.49019217
rs2108635	G	A	0.0104595	0.00168429	5.30E-10	401772	ebi-a-GCST90013975	38.56434383
rs11062595	G	C	-0.0156352	0.00276288	1.52E-08	401772	ebi-a-GCST90013975	32.02437589
rs1526573	C	A	-0.0098602	0.00172449	1.08E-08	401772	ebi-a-GCST90013975	32.69248443
rs2111281	C	A	0.0117523	0.00164925	1.03E-12	401772	ebi-a-GCST90013975	50.77741535
rs7298990	A	G	0.0103427	0.00161365	1.46E-10	401772	ebi-a-GCST90013975	41.08156777
rs704061	C	T	0.0145011	0.00159359	9.06E-20	401772	ebi-a-GCST90013975	82.80308953
rs2062506	G	A	0.0181967	0.00180162	5.51E-24	401772	ebi-a-GCST90013975	102.0132819
rs7133378	A	G	0.019524	0.00170666	2.64E-30	401772	ebi-a-GCST90013975	130.870396
rs7979731	T	C	-0.0199452	0.00281252	1.33E-12	401772	ebi-a-GCST90013975	50.29020319
rs324014	C	T	0.00896265	0.0015981	2.04E-08	401772	ebi-a-GCST90013975	31.45305319
rs61754230	T	C	0.0317076	0.00569861	2.64E-08	401772	ebi-a-GCST90013975	30.95898459
rs7967224	C	A	0.0106608	0.00177573	1.93E-09	401772	ebi-a-GCST90013975	36.04321862
rs12367809	T	C	0.0202425	0.00165134	1.52E-34	401772	ebi-a-GCST90013975	150.2633727
rs10876529	C	T	0.01056	0.00164468	1.36E-10	401772	ebi-a-GCST90013975	41.22520766
rs11105846	T	G	-0.00983515	0.0016592	3.07E-09	401772	ebi-a-GCST90013975	35.13681045
rs7966251	A	G	-0.0104041	0.00182904	1.28E-08	401772	ebi-a-GCST90013975	32.35642022
rs3764002	T	C	-0.0183375	0.00180474	2.97E-24	401772	ebi-a-GCST90013975	103.240192
rs9568867	A	G	0.0187178	0.00237756	3.47E-15	401772	ebi-a-GCST90013975	61.97898675
rs56858768	A	G	0.0123965	0.00173543	9.12E-13	401772	ebi-a-GCST90013975	51.02485816
rs6561937	A	T	-0.0126567	0.0018383	5.78E-12	401772	ebi-a-GCST90013975	47.40302274
rs1183668	G	C	-0.0114698	0.0016464	3.25E-12	401772	ebi-a-GCST90013975	48.5331873
rs56399737	T	C	-0.0115076	0.00159715	5.80E-13	401772	ebi-a-GCST90013975	51.91297783
rs76115890	C	T	-0.0146614	0.00249428	4.15E-09	401772	ebi-a-GCST90013975	34.55081645
rs1218822	A	G	0.0118309	0.00167537	1.65E-12	401772	ebi-a-GCST90013975	49.86685008
rs2026752	T	G	0.0124607	0.00183218	1.04E-11	401772	ebi-a-GCST90013975	46.25369607
rs9584855	G	T	-0.0146124	0.00174406	5.37E-17	401772	ebi-a-GCST90013975	70.19692675
rs7987928	A	G	-0.0135506	0.00197938	7.60E-12	401772	ebi-a-GCST90013975	46.86585383
rs629443	G	T	-0.0109471	0.00186675	4.51E-09	401772	ebi-a-GCST90013975	34.38932795
rs1441264	A	G	0.0117103	0.0016463	1.13E-12	401772	ebi-a-GCST90013975	50.59596973
rs17522122	T	G	0.0116742	0.00159231	2.27E-13	401772	ebi-a-GCST90013975	53.75227519
rs61985411	A	T	0.0185136	0.00317721	5.64E-09	401772	ebi-a-GCST90013975	33.95375019
rs61975138	T	C	-0.0145984	0.00212496	6.42E-12	401772	ebi-a-GCST90013975	47.19617882
rs12890931	G	T	0.0108916	0.00165697	4.92E-11	401772	ebi-a-GCST90013975	43.20678121
rs2991519	C	A	0.022114	0.00369855	2.24E-09	401772	ebi-a-GCST90013975	35.74945786
rs11160752	G	C	0.00969166	0.00174175	2.63E-08	401772	ebi-a-GCST90013975	30.96153897
rs10146997	G	A	0.0194378	0.00190417	1.83E-24	401772	ebi-a-GCST90013975	104.2030952
rs117068593	T	C	-0.0148353	0.00202926	2.66E-13	401772	ebi-a-GCST90013975	53.44598859
rs2481899	G	A	0.00905688	0.00160283	1.60E-08	401772	ebi-a-GCST90013975	31.92861942
rs217672	C	A	0.0119702	0.00178312	1.91E-11	401772	ebi-a-GCST90013975	45.06501388
rs878206	G	A	0.00895863	0.00158849	1.70E-08	401772	ebi-a-GCST90013975	31.8062207
rs6575340	A	G	0.014343	0.00165112	3.73E-18	401772	ebi-a-GCST90013975	75.46065296
rs72681698	C	T	-0.0548104	0.00763226	6.90E-13	401772	ebi-a-GCST90013975	51.5724149
rs3803286	G	A	-0.0116156	0.0016788	4.55E-12	401772	ebi-a-GCST90013975	47.87218092
rs9788550	C	G	-0.014047	0.00184199	2.42E-14	401772	ebi-a-GCST90013975	58.15545617
rs2460	A	G	0.0109209	0.00180128	1.34E-09	401772	ebi-a-GCST90013975	36.75803144
rs72744924	G	A	0.0154642	0.00280891	3.68E-08	401772	ebi-a-GCST90013975	30.30938367
rs7171864	A	G	0.0152939	0.00168253	9.92E-20	401772	ebi-a-GCST90013975	82.62447203
rs34769775	T	C	-0.0101922	0.00173221	4.01E-09	401772	ebi-a-GCST90013975	34.6204437
rs35697691	G	C	0.0201648	0.00281782	8.29E-13	401772	ebi-a-GCST90013975	51.21051948
rs3743398	T	C	-0.0149873	0.0019699	2.78E-14	401772	ebi-a-GCST90013975	57.88369933
rs56803094	G	A	-0.0137688	0.00189623	3.84E-13	401772	ebi-a-GCST90013975	52.72395672
rs4779523	A	T	0.0120291	0.00178444	1.57E-11	401772	ebi-a-GCST90013975	45.44229001
rs36098649	T	C	-0.0099359	0.00169276	4.37E-09	401772	ebi-a-GCST90013975	34.45255905
rs11635906	G	A	0.0117252	0.00179355	6.26E-11	401772	ebi-a-GCST90013975	42.73772303
rs12901081	G	C	0.00920942	0.00160507	9.60E-09	401772	ebi-a-GCST90013975	32.92110791
rs16951304	C	T	-0.0208721	0.00195553	1.36E-26	401772	ebi-a-GCST90013975	113.9203121
rs2135877	G	A	0.0212635	0.0016923	3.29E-36	401772	ebi-a-GCST90013975	157.8747341
rs4966022	G	A	-0.0099157	0.00170838	6.47E-09	401772	ebi-a-GCST90013975	33.68803181
rs6500594	G	T	0.0120164	0.00184572	7.50E-11	401772	ebi-a-GCST90013975	42.38527009
rs7193783	C	A	-0.0108577	0.00166931	7.80E-11	401772	ebi-a-GCST90013975	42.30576219
rs12932141	C	A	-0.0102984	0.00165547	4.95E-10	401772	ebi-a-GCST90013975	38.69855249
rs2966859	G	A	-0.0111112	0.00194533	1.12E-08	401772	ebi-a-GCST90013975	32.62839678
rs2303223	A	G	-0.0147473	0.00163863	2.26E-19	401772	ebi-a-GCST90013975	80.99553249
rs56094641	G	A	0.0410985	0.00161673	1.49E-142	401772	ebi-a-GCST90013975	646.211655
rs12926311	C	G	-0.00989292	0.0016624	2.67E-09	401772	ebi-a-GCST90013975	35.41406434
rs12103006	G	A	0.0103827	0.00160421	9.66E-11	401772	ebi-a-GCST90013975	41.88861593
rs7498665	G	A	0.0220555	0.00161939	3.06E-42	401772	ebi-a-GCST90013975	185.493522
rs8049669	T	A	-0.0168868	0.00163641	5.76E-25	401772	ebi-a-GCST90013975	106.4898728
rs879620	T	C	0.0145507	0.00163561	5.78E-19	401772	ebi-a-GCST90013975	79.14183164
rs72803260	G	T	-0.0162758	0.00284213	1.02E-08	401772	ebi-a-GCST90013975	32.79401942
rs811054	T	C	0.0102126	0.00160089	1.78E-10	401772	ebi-a-GCST90013975	40.69560401

Table S3 (continued)

Table S3 (continued)

SNP	Effect Allele	Other Allele	beta	SE	p	Sample Size	GWAS ID	F value
rs3743861	C	G	-0.011689	0.00160899	3.73E-13	401772	ebi-a-GCST90013975	52.77714163
rs4516268	A	C	-0.0184754	0.00200687	3.38E-20	401772	ebi-a-GCST90013975	84.75143414
rs2428362	T	C	0.00884614	0.0016016	3.33E-08	401772	ebi-a-GCST90013975	30.50684773
rs9902386	G	T	-0.0134019	0.00171059	4.70E-15	401772	ebi-a-GCST90013975	61.38167375
rs1017529	A	C	0.0122759	0.00211217	6.17E-09	401772	ebi-a-GCST90013975	33.77899952
rs55931203	T	C	0.0213057	0.0020509	2.80E-25	401772	ebi-a-GCST90013975	107.9196388
rs55868905	A	G	0.00972749	0.00169493	9.51E-09	401772	ebi-a-GCST90013975	32.93789879
rs8074454	C	G	0.0102879	0.00168723	1.08E-09	401772	ebi-a-GCST90013975	37.17943013
rs11079849	T	C	-0.0136306	0.00169237	8.01E-16	401772	ebi-a-GCST90013975	64.86899184
rs2855818	A	G	0.0165397	0.00187481	1.12E-18	401772	ebi-a-GCST90013975	77.82848407
rs11150745	G	A	-0.0117426	0.00170153	5.16E-12	401772	ebi-a-GCST90013975	47.6263338
rs59237168	C	T	-0.0111546	0.00193134	7.67E-09	401772	ebi-a-GCST90013975	33.35710639
rs2306593	T	C	-0.0110353	0.00158746	3.61E-12	401772	ebi-a-GCST90013975	48.32374061
rs9319615	C	A	-0.00871565	0.00159283	4.45E-08	401772	ebi-a-GCST90013975	29.94046548
rs8176166	C	T	-0.0143143	0.0022404	1.67E-10	401772	ebi-a-GCST90013975	40.82131023
rs2727334	T	A	0.0101336	0.00168333	1.74E-09	401772	ebi-a-GCST90013975	36.23988629
rs34117444	A	G	0.0101175	0.0016915	2.21E-09	401772	ebi-a-GCST90013975	35.77669841
rs2052607	A	G	-0.0139428	0.00167043	7.01E-17	401772	ebi-a-GCST90013975	69.66927184
rs11664106	T	A	0.00986519	0.00167826	4.15E-09	401772	ebi-a-GCST90013975	34.55335793
rs150439302	T	C	-0.0429482	0.00483575	6.60E-19	401772	ebi-a-GCST90013975	78.87876292
rs2198557	G	T	-0.0098743	0.00172846	1.11E-08	401772	ebi-a-GCST90013975	32.63561541
rs11664848	G	C	0.00954182	0.00167675	1.27E-08	401772	ebi-a-GCST90013975	32.38348971
rs6567160	C	T	0.0247354	0.00187098	6.68E-40	401772	ebi-a-GCST90013975	174.7822893
rs8096564	T	G	0.0108622	0.00174063	4.37E-10	401772	ebi-a-GCST90013975	38.94220147
rs7238896	G	A	0.0142843	0.00229344	4.71E-10	401772	ebi-a-GCST90013975	38.79189521
rs188955288	T	C	-0.0157596	0.00204221	1.19E-14	401772	ebi-a-GCST90013975	59.55077555
rs2620829	G	T	-0.0108574	0.00181453	2.18E-09	401772	ebi-a-GCST90013975	35.80314756
rs4808762	C	T	0.0184842	0.00174727	3.73E-26	401772	ebi-a-GCST90013975	111.9126335
rs62104483	A	G	0.013715	0.00168762	4.41E-16	401772	ebi-a-GCST90013975	66.04502894
rs33836	T	C	-0.0169065	0.00160687	6.89E-26	401772	ebi-a-GCST90013975	110.6990186
rs2003476	C	T	-0.0127037	0.00162057	4.54E-15	401772	ebi-a-GCST90013975	61.45011595
rs8108198	A	G	0.012264	0.00210603	5.77E-09	401772	ebi-a-GCST90013975	33.910408
rs113230003	A	G	-0.0149504	0.00181882	2.04E-16	401772	ebi-a-GCST90013975	67.56534843
rs429358	C	T	-0.0184421	0.00218355	3.02E-17	401772	ebi-a-GCST90013975	71.33329762
rs10423928	A	T	-0.0227294	0.00199965	6.13E-30	401772	ebi-a-GCST90013975	129.2009795
rs16996657	C	T	0.0134345	0.00237136	1.47E-08	401772	ebi-a-GCST90013975	32.09562769
rs6023649	G	A	-0.0104722	0.0018344	1.14E-08	401772	ebi-a-GCST90013975	32.59009379
rs56218501	T	C	-0.0138295	0.00193303	8.41E-13	401772	ebi-a-GCST90013975	51.18392743
rs6138536	G	A	0.0124533	0.00158786	4.41E-15	401772	ebi-a-GCST90013975	61.50951773
rs2326844	C	G	0.00919136	0.00164595	2.35E-08	401772	ebi-a-GCST90013975	31.18344661
rs1056441	C	T	0.0132913	0.00168828	3.47E-15	401772	ebi-a-GCST90013975	61.97889199
rs6103254	C	T	-0.0173092	0.00240534	6.19E-13	401772	ebi-a-GCST90013975	51.78439219
rs79186842	G	A	-0.017446	0.00223384	5.73E-15	401772	ebi-a-GCST90013975	60.99376579
rs11907932	G	A	-0.0142311	0.00169637	4.90E-17	401772	ebi-a-GCST90013975	70.37746379
rs74618095	C	T	0.0122699	0.00217983	1.81E-08	401772	ebi-a-GCST90013975	31.68360819
rs7276563	C	T	-0.00895458	0.00159099	1.82E-08	401772	ebi-a-GCST90013975	31.67768091
rs394608	C	T	0.0126937	0.00159138	1.51E-15	401772	ebi-a-GCST90013975	63.62481124
rs11538	G	A	0.0146005	0.00209463	3.16E-12	401772	ebi-a-GCST90013975	48.58684027
rs4820325	A	G	-0.0168402	0.00160588	9.95E-26	401772	ebi-a-GCST90013975	109.9679552
rs6008598	T	C	0.0145561	0.00256923	1.47E-08	401772	ebi-a-GCST90013975	32.09829249
rs10854853	T	G	0.0104343	0.0015866	4.82E-11	401772	ebi-a-GCST90013975	43.25034503
rs136257	A	T	0.0107574	0.00193998	2.94E-08	401772	ebi-a-GCST90013975	30.74807757
rs79013	T	A	-0.0116573	0.00189816	8.18E-10	401772	ebi-a-GCST90013975	37.7162191

Table S4 Selected instrumental variables for percentage fat in milk consumption and breast cancer

Number	SNP	Effect Allele	Other Allele
1	rs10875917	T	G
2	rs136872	G	A
3	rs3101336	C	T
4	rs3817334	T	C
5	rs4953152	A	G
6	rs538656	T	G
7	rs7412	T	C

Table S5 Selected instrumental variables for percentage fat in milk consumption and ovarian cancer

Number	SNP	Effect Allele	Other Allele
1	rs136872	G	A
2	rs3101336	C	T
3	rs3817334	T	C
4	rs4430895	T	C
5	rs4953152	A	G
6	rs538656	T	G
7	rs55872725	T	C
8	rs7412	T	C

Table S6 Selected instrumental variables for percentage fat in milk consumption and endometrial cancer

Number	SNP	Effect Allele	Other Allele
1	rs10875917	T	G
2	rs136872	G	A
3	rs3101336	C	T
4	rs3817334	T	C
5	rs4430895	T	C
6	rs4953152	A	G
7	rs538656	T	G
8	rs55872725	T	C
9	rs7412	T	C

Table S7 Selected instrumental variables for percentage fat in milk consumption and colorectal cancer

Number	SNP	Effect Allele	Other Allele
1	rs10875917	T	G
2	rs136872	G	A
3	rs3101336	C	T
4	rs3817334	T	C
5	rs4430895	T	C
6	rs4953152	A	G
7	rs538656	T	G
8	rs55872725	T	C
9	rs7412	T	C

Table S8 Selected instrumental variables for percentage fat in milk consumption and prostate cancer

Number	SNP	Effect Allele	Other Allele
1	rs10875917	T	G
2	rs136872	G	A
3	rs3101336	C	T
4	rs3817334	T	C
5	rs4430895	T	C
6	rs4953152	A	G
7	rs538656	T	G
8	rs55872725	T	C
9	rs7412	T	C

Table S9 Selected instrumental variables for percentage fat in milk consumption and bladder cancer

Number	SNP	Effect Allele	Other Allele
1	rs10875917	T	G
2	rs136872	G	A
3	rs3101336	C	T
4	rs3817334	T	C
5	rs4430895	T	C
6	rs4953152	A	G
7	rs538656	T	G
8	rs55872725	T	C
9	rs7412	T	C

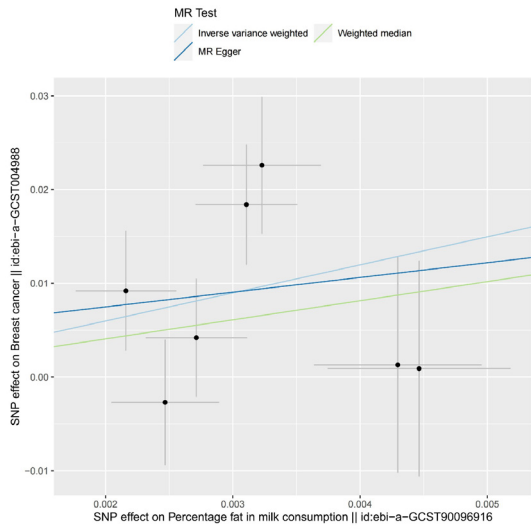


Figure S1 Scatter plot of MR analysis on the causal relationship between percentage fat in milk consumption and breast cancer.

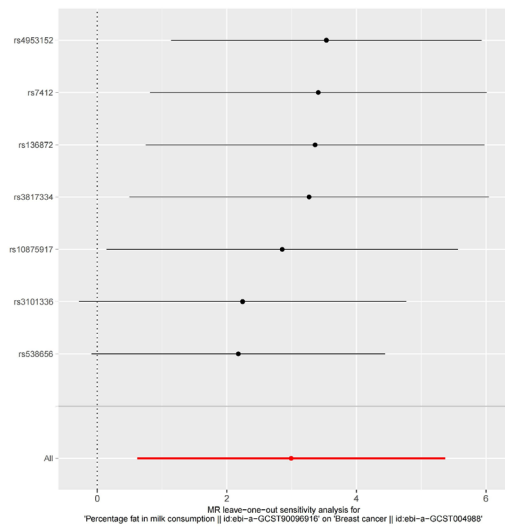


Figure S3 Leave-one-out analysis plot of MR analysis on the causal relationship between percentage fat in milk consumption and breast cancer.

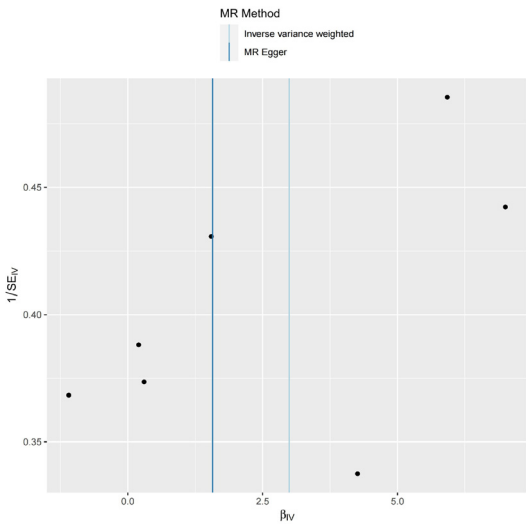


Figure S2 Funnel plot of MR analysis on the causal relationship between percentage fat in milk consumption and breast cancer.

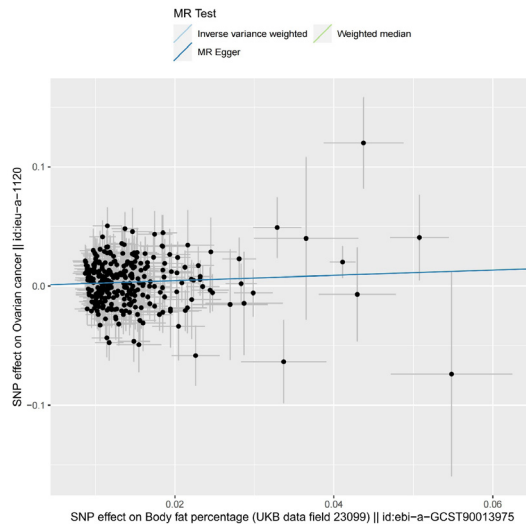


Figure S4 Scatter plot of MR analysis on the causal relationship between body fat percentage and ovarian cancer.

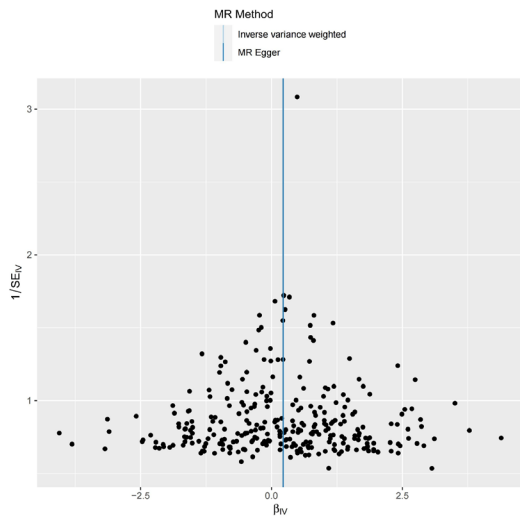


Figure S5 Funnel plot of MR analysis on the causal relationship between body fat percentage and ovarian cancer.

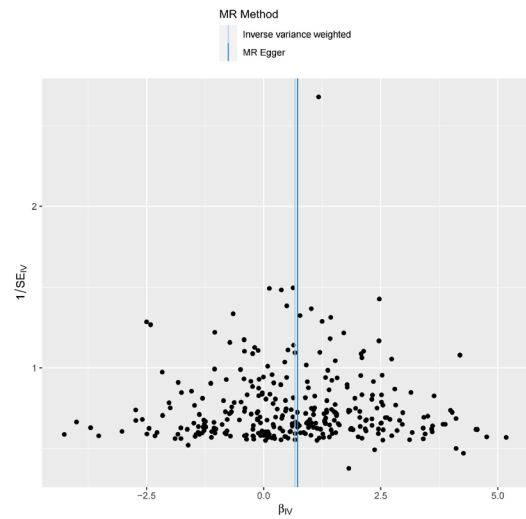


Figure S7 Funnel plot of MR analysis on the causal relationship between body fat percentage and endometrial cancer.

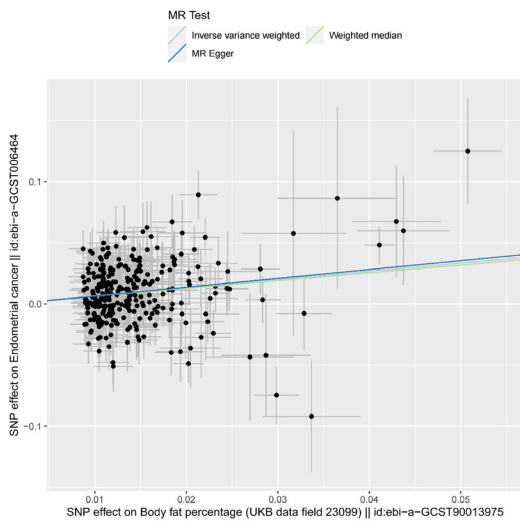


Figure S6 Scatter plot of MR analysis on the causal relationship between body fat percentage and endometrial cancer.

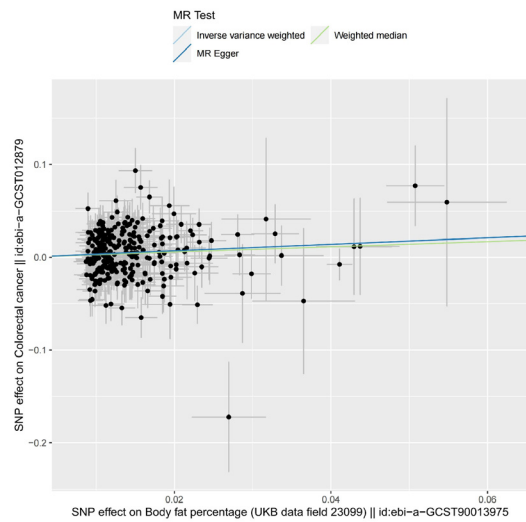


Figure S8 Scatter plot of MR analysis on the causal relationship between body fat percentage and colorectal cancer.

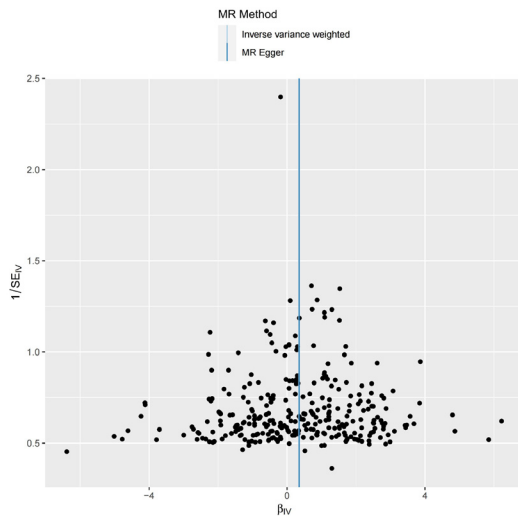


Figure S9 Funnel plot of MR analysis on the causal relationship between body fat percentage and colorectal cancer.

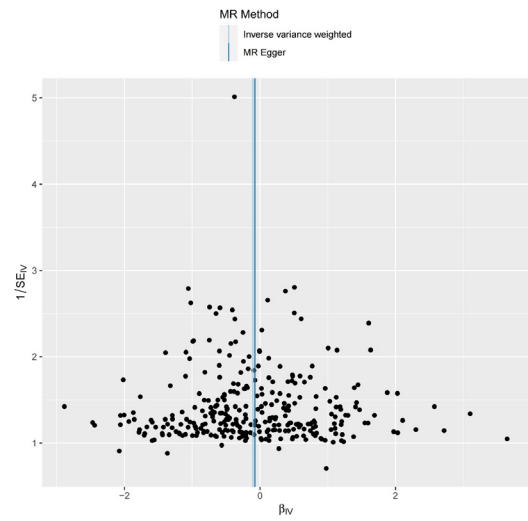


Figure S11 Funnel plot of MR analysis on the causal relationship between body fat percentage and prostate cancer.

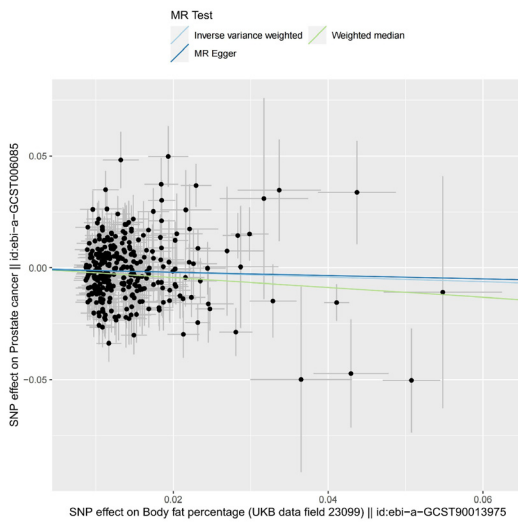


Figure S10 Scatter plot of MR analysis on the causal relationship between body fat percentage and prostate cancer.