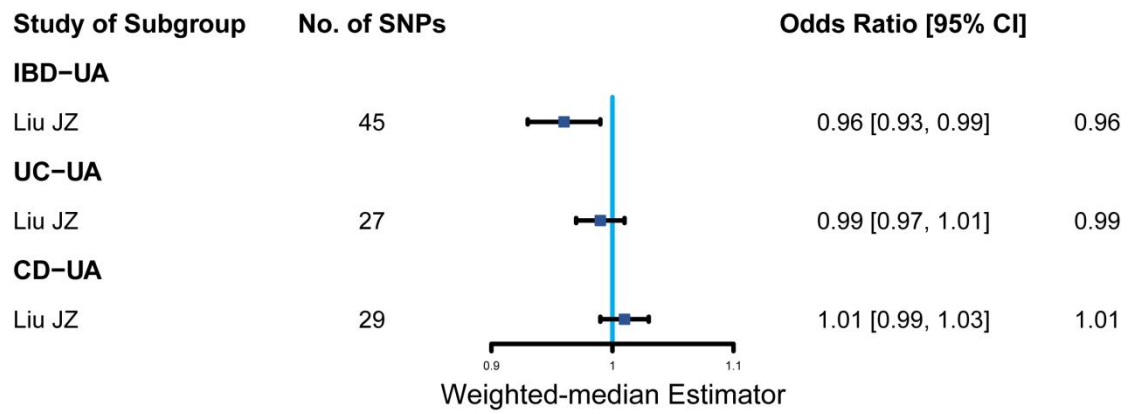| Study of Subgroup	No. of SNPs		Weight	Odds Ratio [95% CI]
UA−UC				
Finngen	27		37.00%	1.00 [0.86, 1.15]
Liu JZ	25		48.20%	1.04 [0.91, 1.19]
UK Biobank	27		14.80%	0.96 [0.76, 1.22]
Combined effect			100.00%	1.01 [0.92, 1.11]
UA−CD				
Finngen	27		29.00%	0.90 [0.73, 1.12]
Liu JZ	25		71.00%	1.02 [0.89, 1.17]
Combined effect			100.00%	0.98 [0.87, 1.11]
UA−IBD				
Finngen	27		38.50%	0.95 [0.83, 1.08]
Liu JZ	25		61.50%	1.02 [0.92, 1.14]
Combined effect			100.00%	0.99 [0.92, 1.08]

Weighted-median Estimator

Supplementary Figure 1 Estimated odds ratios of the effect of per log-odds ratios of urate levels on inflammatory bowel disease, obtained from Weighted-median Estimator per outcome database separately and combined over the three databases for UC and two databases (data are not available in the UKB) for Crohn's disease and UC using fixed-effect meta-analyses. IBD: Inflammatory bowel disease; CD: Crohn's disease; UC: Ulcerative colitis; OR: Odds ratio; CI: Confidence interval.
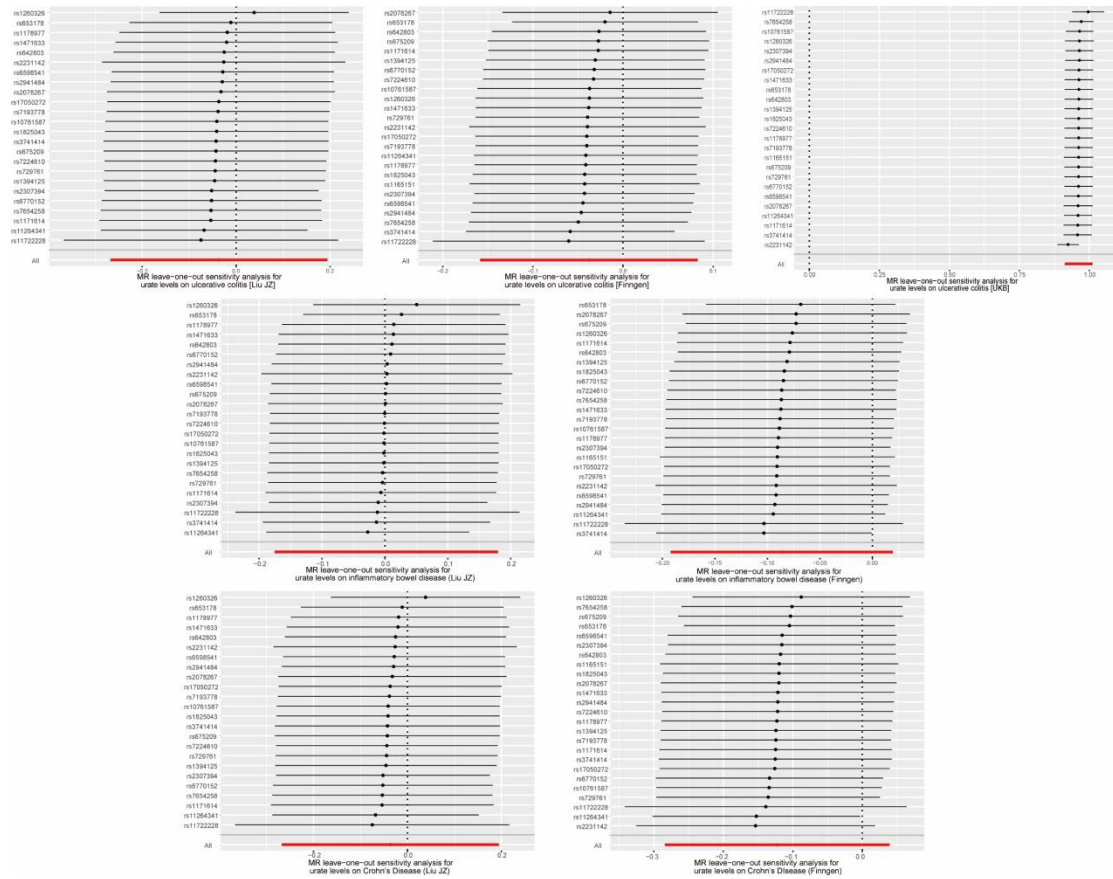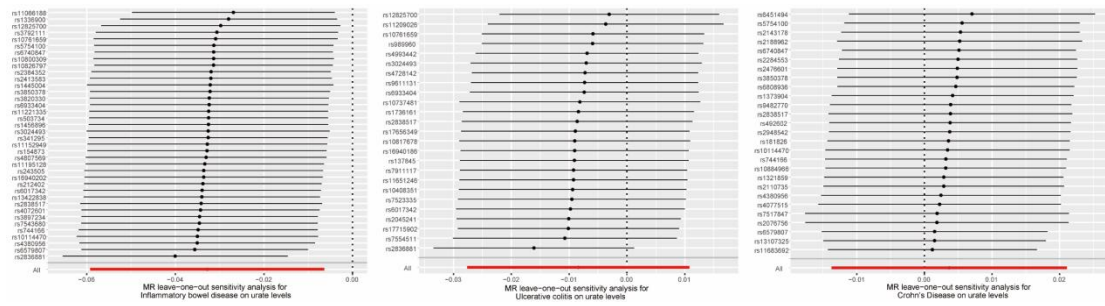
Supplementary Figure 2 Leave-one-out plot of MR analyses from IBD to urate levels in each database.

Study of Subgroup	No. of SNPs		Odds Ratio [95% CI]	
IBD−UA				
Liu JZ	45		0.96 [0.93, 0.99]	0.96
UC−UA				
Liu JZ	27		0.99 [0.97, 1.01]	0.99
CD−UA				
Liu JZ	29		1.01 [0.99, 1.03]	1.01

0.9   1   1.1

Weighted-median Estimator

Supplementary Figure 3 Estimated odds ratios of the effect of per log-odds ratio of IBD on urate levels, obtained from Weighted-median Estimator. Data for IBD was extracted from Liu *et al*[19]. IBD: Inflammatory bowel disease; CD: Crohn's disease; UC: Ulcerative colitis; OR: Odds ratio; CI: Confidence interval.

Supplementary Figure 4 Leave-one-out plot of MR analyses from IBD to urate levels.

Supplementary Table 1 Summary statistics of genetics instruments identified for MR analysis

Exposure	Significant level	No. of SNPs	F statistics[1]
Urate levels	5e-08	27	63.4 (35.4-1406.3)
IBD			
IBD	5e-08	117	47.1 (29.9-500.6)
CD	5e-08	87	55.0 (30.1-489.6)
UC	5e-08	60	57.6 (30.5-408.1)

[1]Data for F statistics was presented as median and range.

IBD: Inflammatory bowel disease; UC: Ulcerative colitis; CD: Crohn's disease;

SNP: Single-nucleotide polymorphisms.

Supplementary Table 2 Instrumental variables for urate levels (significant level of $P < 5\times10^{-8}$)

SNP	EA/non-EA	Beta (SE)	F statistics	p value	Palindromic	IBD [Beta (SE)]		UC [Beta (SE)]			CD [Beta (SE)]	
						Liu JZ	Finngen	Liu JZ	Finngen	UKB	Liu JZ	Finngen
rs10761587	T/C	0.062 (0.0091)	46.4	9.58E-11	No	0.017 (0.02)	0.003 (0.022)	0.018 (0.026)	-0.005 (0.025)	0.044 (0.006)	0.018 (0.026)	0.036 (0.036)
rs11264341	T/C	-0.048 (0.0059)	66.2	1.04E-14	No	-0.07 (0.013)	-0.015 (0.016)	-0.072 (0.016)	-0.006 (0.018)	-0.052 (0.004)	-0.072 (0.016)	-0.065 (0.026)
rs1165151	T/G	-0.092 (0.0054)	290.3	4.52E-60	No	NA	0.003 (0.016)	NA	-0.002 (0.018)	-0.089 (0.004)	NA	0.015 (0.026)
rs1171614	T/C	-0.074 (0.0071)	108.6	6.48E-23	No	-0.02 (0.015)	0.028 (0.021)	-0.035 (0.02)	0.032 (0.024)	-0.078 (0.005)	-0.035 (0.02)	0.002 (0.035)
rs1172222	T/C	0.21	1406.3	1.00E-2	No	0.006	-0.011	0.007	0.001	0.188	0.007	-0.019

SNP	Alleles	Beta (SE)	Chi	P	Het							
8		(0.0056)	00			(0.013)	(0.016)	(0.017)	(0.019)	(0.004)	(0.017)	(0.027)
rs1178977	A/G	0.05 (0.0069)	52.5	6.68E-12	No	-0.042 (0.016)	0.008 (0.02)	-0.064 (0.02)	0.012 (0.023)	0.049 (0.005)	-0.064 (0.02)	-0.004 (0.033)
rs1260326	T/C	0.077 (0.0055)	196.0	1.31E-40	No	-0.067 (0.013)	-0.022 (0.016)	-0.105 (0.016)	-0.004 (0.019)	0.07 (0.004)	-0.105 (0.016)	-0.063 (0.027)
rs1394125	A/G	0.043 (0.0063)	46.6	9.78E-11	No	0.012 (0.013)	-0.021 (0.018)	0.025 (0.017)	-0.026 (0.02)	0.041 (0.004)	0.025 (0.017)	0.001 (0.029)
rs1471633	A/C	0.061 (0.0054)	127.6	1.40E-26	No	-0.021 (0.013)	-0.004 (0.016)	-0.034 (0.017)	-0.002 (0.018)	0.057 (0.004)	-0.034 (0.017)	-0.009 (0.026)
rs1705027	A/G	0.037 (0.0061)	36.8	9.36E-09	No	0.013 (0.013)	0.011 (0.016)	0.0002 (0.017)	0.006 (0.018)	0.032 (0.004)	0.0002 (0.017)	0.007 (0.026)

rs17632159	C/G	-0.038 (0.0061)	38.8	2.00E-09	Yes	NA	-0.029 (0.018)	NA	-0.051 (0.02)	-0.041 (0.004)	NA	0.022 (0.029)
rs1825043	A/G	0.1 (0.013)	59.2	6.67E-14	No	0.023 (0.029)	-0.018 (0.029)	0.025 (0.037)	0.015 (0.033)	0.097 (0.009)	0.025 (0.037)	-0.022 (0.048)
rs2078267	T/C	-0.078 (0.0059)	174.8	8.73E-36	No	-0.002 (0.013)	0.026 (0.016)	0.009 (0.016)	0.036 (0.018)	-0.078 (0.004)	0.009 (0.016)	0.013 (0.026)
rs2231142	T/G	0.22 (0.0091)	584.5	4.43E-116	No	-0.001 (0.02)	-0.01 (0.029)	-0.019 (0.026)	-0.006 (0.034)	0.256 (0.006)	-0.019 (0.026)	0.025 (0.048)
rs2307394	T/C	-0.035 (0.0057)	37.7	7.26E-09	No	-0.048 (0.013)	-0.011 (0.016)	-0.056 (0.017)	-0.017 (0.019)	-0.023 (0.004)	-0.056 (0.017)	0.028 (0.027)
rs2941484	T/C	0.049 (0.0055)	79.4	3.91E-17	No	-0.003 (0.013)	0.011 (0.015)	-0.018 (0.016)	0.018 (0.018)	0.041 (0.004)	-0.018 (0.016)	-0.008 (0.026)

SNP	Allele											
rs3741414	T/C	-0.071 (0.007)	102.9	9.79E-22	No	-0.034 (0.015)	-0.031 (0.018)	-0.011 (0.019)	-0.043 (0.021)	-0.078 (0.005)	-0.011 (0.019)	0.002 (0.03)
rs642803	T/C	-0.043 (0.0054)	63.4	4.51E-14	No	0.023 (0.012)	0.024 (0.016)	0.03 (0.016)	0.032 (0.018)	-0.04 (0.004)	0.03 (0.016)	0.018 (0.026)
rs653178	T/C	-0.036 (0.0054)	44.4	2.45E-10	No	0.075 (0.013)	0.061 (0.016)	0.081 (0.016)	0.058 (0.018)	-0.032 (0.004)	0.081 (0.016)	0.06 (0.026)
rs6598541	A/G	0.044 (0.0057)	59.6	5.20E-13	No	-0.001 (0.013)	0.011 (0.016)	-0.024 (0.017)	0.017 (0.019)	0.046 (0.004)	-0.024 (0.017)	-0.025 (0.027)
rs675209	T/C	0.063 (0.0062)	103.3	1.38E-21	No	0.003 (0.014)	-0.033 (0.017)	0.011 (0.018)	-0.023 (0.019)	0.061 (0.004)	0.011 (0.018)	-0.046 (0.027)
rs6770152	T/G	-0.048 (0.0056)	73.5	2.66E-16	No	0.016 (0.013)	0.008 (0.016)	-0.035 (0.016)	0.016 (0.018)	-0.048 (0.004)	-0.035 (0.016)	-0.021 (0.026)

rs6830367	C/G	0.051 (0.0072)	50.2	2.35E-11	Yes	0.011 (0.017)	-0.027 (0.019)	0.006 (0.021)	-0.04 (0.022)	0.04 (0.005)	0.006 (0.021)	0.006 (0.032)
rs7193778	T/C	-0.047 (0.0079)	35.4	2.36E-08	No	-0.013 (0.018)	-0.004 (0.022)	-0.007 (0.023)	-0.01 (0.026)	-0.046 (0.006)	-0.007 (0.023)	-0.004 (0.037)
rs7224610	A/C	-0.038 (0.0055)	47.7	4.74E-11	No	-0.01 (0.013)	0.003 (0.016)	-0.021 (0.016)	0.017 (0.018)	-0.037 (0.004)	-0.021 (0.016)	0.006 (0.026)
rs729761	T/G	-0.046 (0.0063)	53.3	3.05E-12	No	-0.019 (0.014)	-0.01 (0.017)	-0.023 (0.018)	-0.003 (0.019)	-0.045 (0.004)	-0.023 (0.018)	-0.033 (0.028)
rs7654258	T/C	-0.099 (0.01)	98.0	1.09E-19	No	-0.024 (0.024)	0.007 (0.027)	-0.064 (0.031)	-0.038 (0.031)	-0.054 (0.007)	-0.064 (0.031)	0.087 (0.045)

Supplementary Table 3 Effect estimates of the genetics instrumental variables for urate levels and risk of IBD

Urate levels	IVW		Weighted Median	MR-Egger		MR-PRESSO (outlier-corrected)		
	OR (95% CI)	Q (p value)	OR (95% CI)	OR (95% CI)	Intercept (p value)	outlier	OR (95% CI)	*P* for global test
IBD								
Liu JZ	1.00 (0.88, 1.13)	57.7 (4.5E -5)	1.02 (0.92, 1.14)	1.01 (0.73, 1.40)	-0.001 (0.93)	4	1.03 (0.94, 1.13)	< 0.001
Finngen	0.92 (0.83, 1.02)	33.4 (0.1)	0.95 (0.83, 1.08)	0.96 (0.78, 1.17)	-0.003 (0.63)	0	NA	0.13
Meta-analysis	**0.95 (0.88, 1.03)**	-	**0.99 (0.92, 1.08)**	**0.97 (0.82, 1.15)**	-	-	-	-
UC								
Liu JZ	1.04 (0.92, 1.17)	30.5 (0.05)	1.04 (0.91, 1.19)	1.04 (0.76, 1.42)	-0.001 (0.92)	5	1.04 (0.91, 1.18)	< 0.001
Finngen	0.96 (0.85, 1.09)	33.2 (0.1)	1.00 (0.86, 1.16)	1.06 (0.85, 1.33)	-0.009 (0.32)	0	NA	0.10
UKB	2.70 (2.54, 2.87)	110.8 (1.8E-13)	0.96 (0.76, 1.22)	1.06 (0.70, 1.61)	-0.012 (0.47)	3	2.71 (2.54-2.88)	0.012

Meta-analysis	**1.95 (1.86, 2.05)**	-	**1.01 (0.92, 1.11)**	**1.06 (0.89, 1.25)**	-	-	-	-
CD								
Liu JZ	1.04 (0.92, 1.18)	30.3 (0.05)	1.02 (0.89, 1.17)	0.97 (0.64, 1.49)	-0.001 (0.95)	5	1.04 (0.91, 1.18)	< 0.001
Finngen	0.88 (0.75, 1.04)	28.7 (0.23)	0.90 (0.73, 1.12)	0.93 (0.69, 1.27)	-0.004 (0.70)	0	NA	0.274
Meta-analysis	**0.98 (0.89, 1.08)**	-	**0.98 (0.87, 1.11)**	**0.95 (0.74, 1.21)**	-	-	-	-

Footnote: Results of meta-analyses were from fixed-effect or random-effect model depending on heterogeneity test on outcome datasets. IVW will be re-performed if outliers are detected in MR-PRESSO estimates. IVW: Inverse variance weighted; OR: Odds Ratio; CI: Confidence Interval; Q: Cochran's Q statistics; MR-PRESSO: MR Pleiotropy Residual Sum and Outlier; NA: Not available. IBD: Inflammatory Bowel Disease; UC: Ulcerative Colitis; CD: Crohn's Disease.

Table S4 Instrumental variables for IBD (significant level of $P < 5 \times 10^{-8}$)

SNP	EA	Non-EA	Beta	SE	F statistics	p value	Palindromic	Urate levels (K)	
								Beta	SE
IBD									
rs1011470	T	C	0.148	0.014	115.9	4.10E-27	No	0.002	0.006
rs1076159	A	G	0.159	0.013	158.2	2.30E-36	No	-0.010	0.006
rs1080309	A	G	-0.123	0.013	85.5	1.94E-20	No	0.009	0.006
rs1082697	G	T	-0.099	0.014	53.0	3.99E-13	No	0.010	0.006
rs1106188	G	A	0.087	0.013	45.2	1.76E-11	No	-0.031	0.006
rs1115249	A	G	0.102	0.013	58.7	1.56E-14	No	-0.003	0.006
rs1119528	C	T	0.079	0.013	35.5	2.74E-09	No	0.001	0.006
rs1122135	T	C	0.083	0.015	31.2	2.44E-08	No	-0.005	0.006
rs1173935	G	C	0.137	0.013	119.4	1.10E-27	Yes	-0.008	0.006
rs1267496	G	C	0.105	0.016	43.9	3.39E-11	Yes	-0.011	0.007
rs1282500	G	A	0.132	0.013	108.7	1.28E-25	No	-0.013	0.006
rs1319951	C	G	-0.085	0.015	33.5	7.50E-09	Yes	0.007	0.007

rs1336900	G	A	-0.0085	0.013	43.9	2.98E-11	No	0.024	0.005
rs13422838	T	C	-0.114	0.021	31.1	2.56E-08	No	-0.009	0.009
rs1445004	C	T	0.169	0.013	176.9	3.48E-40	No	-0.007	0.006
rs1456896	C	T	0.088	0.013	43.7	4.50E-11	No	-0.004	0.006
rs154873	G	A	-0.081	0.013	37.9	7.38E-10	No	0.002	0.006
rs16940202	T	C	0.113	0.017	44.7	2.51E-11	No	0.003	0.009
rs212402	G	A	-0.074	0.013	32.7	1.06E-08	No	-0.003	0.006
rs2384352	A	G	0.095	0.013	52.7	3.12E-13	No	-0.007	0.006
rs2413583	C	T	-0.173	0.017	102.6	4.60E-24	No	0.009	0.008
rs243505	A	G	-0.081	0.013	39.6	3.04E-10	No	-0.001	0.006
rs2488398	G	C	0.099	0.015	43.7	3.63E-11	Yes	-0.004	0.007
rs254837	G	C	0.122	0.021	35.5	2.54E-09	Yes	0.014	0.010
rs2836881	G	T	-0.164	0.015	126.6	1.96E-29	No	-0.017	0.006
rs2838517	T	C	-0.128	0.013	104.9	1.84E-24	No	0.000	0.005
rs285765	G	C	-0.1	0.01	50.5	1.07E-1	Yes	-0.0	0.00

SNP	A1	A2							
6			00	4		2		05	6
rs3024493	C	A	0.191	0.017	134.1	4.04E-31	No	-0.007	0.008
rs341295	C	T	0.070	0.012	32.1	1.45E-08	No	-0.003	0.005
rs379211	C	T	0.139	0.012	125.8	5.12E-29	No	-0.010	0.005
rs382033	C	A	-0.089	0.014	40.6	1.72E-10	No	0.005	0.006
rs385037	T	C	0.154	0.021	55.1	1.10E-13	No	-0.009	0.009
rs389723	T	C	0.097	0.015	44.8	1.90E-11	No	0.006	0.006
rs407260	G	A	-0.126	0.018	51.0	8.43E-13	No	-0.004	0.007
rs438095	G	A	0.091	0.013	51.0	1.12E-12	No	0.007	0.006
rs471252	G	C	0.104	0.015	47.1	7.14E-12	Yes	-0.006	0.007
rs480756	A	C	0.128	0.015	71.0	4.24E-17	No	-0.003	0.007
rs503734	A	G	-0.069	0.012	31.1	2.67E-08	No	0.004	0.005
rs575410	T	C	0.129	0.016	65.3	7.14E-16	No	-0.011	0.007
rs601734	A	C	0.116	0.014	73.3	1.07E-17	No	0.005	0.008
rs657980	C	T	0.125	0.019	43.7	4.01E-11	No	0.025	0.010

rs674084	A	G	-0.092	0.013	54.6	1.22E-13	No	0.009	0.006
rs693340	T	C	0.086	0.015	33.5	6.64E-09	No	-0.006	0.007
rs744166	A	G	-0.111	0.013	77.5	1.34E-18	No	-0.003	0.005
rs754368	G	A	-0.100	0.015	42.8	5.51E-11	No	-0.006	0.007
rs601734	A	C	0.116	0.014	73.3	1.07E-17	No	0.005	0.008
rs657980	C	T	0.125	0.019	43.7	4.01E-11	No	0.025	0.010
rs674084	A	G	-0.092	0.013	54.6	1.22E-13	No	0.009	0.006
rs693340	T	C	0.086	0.015	33.5	6.64E-09	No	-0.006	0.007
rs744166	A	G	-0.111	0.013	77.5	1.34E-18	No	-0.003	0.005
rs754368	G	A	-0.100	0.015	42.8	5.51E-11	No	-0.006	0.007

UC

rs104083 51	G	A	0.155	0.020	57.6	2.92E-14	No	0.005	0.008
rs107374 81	T	G	0.217	0.016	186.8	2.56E-42	No	-0.002	0.005
rs107616 59	A	G	0.128	0.016	63.6	1.33E-15	No	-0.010	0.006
rs108176 78	G	A	0.133	0.017	61.4	4.42E-15	No	0.001	0.006

rs112090 26	G	A	-0.4 83	0.03 6	182.0	2.00E-4 1	No	0.01 9	0.01 1
rs116512 46	T	G	0.14 7	0.02 2	45.1	2.01E-1 1	No	0.00 4	0.00 8
rs128257 00	G	A	0.18 9	0.01 6	137.7	7.33E-3 2	No	-0.0 13	0.00 6
rs137845	A	G	0.10 1	0.01 6	40.9	1.50E-1 0	No	0.00 2	0.00 5
rs169401 86	T	C	0.13 6	0.02 1	40.2	2.19E-1 0	No	0.00 3	0.00 8
rs173616 1	G	A	-0.1 23	0.01 6	58.1	2.22E-1 4	No	0.00 1	0.00 6
rs176563 49	C	T	0.09 0	0.01 6	32.0	1.54E-0 8	No	0.00 2	0.00 5
rs177159 02	G	A	0.09 7	0.01 7	34.4	4.62E-0 9	No	0.00 8	0.00 6
rs204524 1	G	A	-0.1 06	0.01 7	39.6	2.83E-1 0	No	-0.0 06	0.00 6
rs281695 4	T	A	0.13 8	0.02 3	36.1	1.80E-0 9	Yes	0.00 2	0.00 8
rs283688 1	G	T	-0.2 22	0.01 9	142.1	1.11E-3 2	No	-0.0 17	0.00 6
rs283851 7	T	C	-0.1 18	0.01 6	54.1	1.78E-1 3	No	0.00 0	0.00 5
rs302449 3	C	A	0.21 0	0.02 1	101.0	7.46E-2 4	No	-0.0 07	0.00 8
rs472814 2	G	A	0.10 0	0.01 6	39.7	3.23E-1 0	No	-0.0 06	0.00 6
rs499344	G	T	-0.0	0.01	30.5	3.54E-0	No	0.00	0.00

SNP	A1	A2	beta	se	stat	P	flag	col9	col10
2			99	8	8			9	6
rs601734	A	C	0.194	0.017	130.8	3.95E-30	No	0.005	0.008
rs693340	T	C	0.149	0.019	62.5	2.69E-15	No	-0.006	0.007
rs752333	G	A	-0.139	0.021	43.7	3.42E-11	No	-0.004	0.007
rs755451	C	A	-0.145	0.018	66.2	4.27E-16	No	-0.008	0.006
rs791111	T	G	-0.134	0.024	31.5	1.84E-08	No	-0.005	0.008
rs926779	G	C	0.249	0.028	78.8	6.54E-19	Yes	-0.005	0.011
rs961113	T	C	-0.149	0.023	43.3	5.11E-11	No	0.008	0.008
rs989960	C	T	-0.121	0.016	57.6	3.29E-14	No	0.010	0.006

CD

SNP	A1	A2	beta	se	stat	P	flag	col9	col10
rs10114470	T	C	0.169	0.018	90.8	1.76E-21	No	0.002	0.006
rs10884966	G	A	0.113	0.017	43.7	4.13E-11	No	0.004	0.006
rs11683692	T	C	-0.214	0.038	31.8	1.75E-08	No	-0.045	0.013
rs13107325	C	T	0.201	0.028	49.9	1.67E-12	No	0.030	0.011
rs1321859	C	T	-0.105	0.017	37.2	1.18E-09	No	-0.006	0.006
rs137390	A	G	0.14	0.01	55.7	9.11E-1	No	-0.0	0.00

4			1	9		4		03	6
rs181826	C	A	0.116	0.017	48.4	3.25E-12	No	0.001	0.006
rs207675	A	G	0.385	0.017	489.6	1.80E-108	No	0.005	0.006
rs211073	A	G	-0.137	0.019	55.0	1.20E-13	No	-0.006	0.007
rs214317	T	C	-0.209	0.022	87.6	6.84E-21	No	0.010	0.008
rs218896	C	T	0.200	0.016	156.9	5.59E-36	No	-0.004	0.006
rs228455	A	G	0.128	0.017	59.9	1.14E-14	No	-0.007	0.006
rs247660	A	G	0.231	0.029	65.3	6.44E-16	No	-0.009	0.009
rs258182	C	G	-0.094	0.016	33.7	6.46E-09	Yes	-0.018	0.006
rs283851	T	C	-0.146	0.016	80.8	2.03E-19	No	0.000	0.005
rs285765	G	C	-0.158	0.018	75.0	4.22E-18	Yes	-0.005	0.006
rs294854	A	G	0.102	0.016	38.9	5.15E-10	No	0.000	0.006
rs385037	T	C	0.199	0.027	55.5	8.31E-14	No	-0.009	0.009
rs407751	C	T	0.185	0.016	130.1	3.15E-30	No	0.007	0.006
rs438095	G	A	0.132	0.017	64.0	1.15E-15	No	0.007	0.006

rs492602	A	G	0.108	0.016	44.8	2.33E-1	No	-0.001	0.006
rs575410	T	C	0.169	0.021	67.1	3.02E-1	No	-0.011	0.007
rs645149	T	C	0.261	0.017	246.3	8.26E-5	No	-0.007	0.006
rs657980	C	T	0.199	0.024	66.7	3.44E-1	No	0.025	0.010
rs674084	A	G	-0.104	0.016	41.7	9.72E-1	No	0.009	0.006
rs680893	A	G	0.090	0.016	31.5	1.93E-08	No	-0.007	0.005
rs744166	A	G	-0.114	0.016	49.7	1.80E-1	No	-0.003	0.005
rs751784	T	G	-0.345	0.017	436.4	5.84E-9	No	-0.004	0.005
rs948277	T	C	0.090	0.016	37.1	1.01E-09	No	-0.001	0.006

Supplementary Table 5 Effect estimates of the genetics instrumental variables for IBD and risk of urate levels

	IVW		Weighted Median	MR-Egger		MR-PRESSO (outlier-corrected)		
	OR (95% CI)	Q (*P* value)	OR (95% CI)	OR (95% CI)	Intercept (p value)	outlier	OR (95% CI)	*P* for global test
IBD								
Liu JZ	0.97 (0.94, 0.99)	94.8 (1.4E -05)	0.96 (0.93, 0.99)	1.01 (0.92, 1.12)	-0.001 (0.34)	7	0.97 (0.95, 1.00)	0.02
UC								
Liu JZ	0.99 (0.97, 1.01)	33.4 (0.1)	0.99 (0.97, 1.01)	0.98 (0.93, 1.03)	0.002 (0.57)	0	NA	0.076
CD								
Liu JZ	1.01 (0.99, 1.02)	56.2 (0.001)	1.09 (0.83, 1.44)	0.97 (0.97, 1.06)	-0.002 (0.61)	0*	NA	0.006

[1]There were 2 insignificant outliers for CD and risk of urate levels in MR-PRESSO analysis (*P* value = 0.054 and 0.081), as a result, effect estimate did not be performed by excluding the two insignificant outliers.

Footnote: Results of meta-analyses were from fixed-effect model given no heterogeneity detected between outcome datasets. Otherwise, the random-effect model was performed to provide effect estimates. IVW: Inverse variance weighted; OR: Odds Ratio; CI: Confidence Interval; Q: Cochran's Q statistics; MR-PRESSO: MR Pleiotropy Residual Sum and Outlier; NA: Not available; IBD: Inflammatory Bowel Disease; UC: Ulcerative Colitis; CD: Crohn's Disease.