

Figure S1 The scatter plot of bidirectional MR between BT and TT with CRC. (A) Scatter plots from genetically predicted BT on CRC. (B) Scatter plots from genetically predicted TT on CRC. (C) Scatter plots from genetically predicted CRC on BT. (D) Scatter plots from genetically predicted CRC on TT. MR, Mendelian randomization; CRC, colorectal cancer; SNP, single nucleotide polymorphism; TT, total testosterone; BT, bioavailable testosterone.

rs114678455			•	
rs590097			•	
rs9543012			•	
re113017476				
13110011470			•	
rs2250010			•	
rs35906730			•	
rs1897999			•	
re9638084			•	
13000004			•	
rs1980091			•	
rs57615517			•	
rs9913470			•	
re1837005			•	
131057055			•	
rs11624408			•	
rs2306847			•	
rs1835542			•	
rs36182456			•	
			_	
152241300			•	
rs11191801			•	
rs10184382			•	
rs78248023			•	
rs56271032				
1000271002				
rs35222808			•	
rs117007168			•	
rs4775935				
rs2011425				
1011034000				
1811031005				
rs3767844	-	•		
rs2035838				
rs2571001				
re100001110				
rs10202148		•		
rs73075656		•		
rs12185851				
rs3790604				
m14007400				
1811937496		•		
rs4678408		•		
rs112694713		•		
rs4453027				
750020				
rs759068		•		
rs78744936		•		
rs61823391		•		
rs4632729				
**10650470				
1512000172				
rs4725944		•		
rs6471583		•		
rs2256191				
re17326200				
1517320205				
rs56117787		•		
rs6462989		•		
rs28421540		•		
rs10817260				
1835783704		•		
rs12925980		•		
rs17270243		•		
rs5763599				
re12426705				
1512430700		•		
rs5752773		•		
rs116646027		•		
rs3105363				
ns6030004				
130939001				
rs2583949		•		
rs57108174		•		
rs58839393				
rs2004511				
re4040977				
134012377				
rs698270		•		
rs34632394		•		
rs62394296				
105065370				
10000013		•		
rs13153019		•		
rs56028970		•		
rs72660136				
107040000				
1010303				
rs11830764		•		
rs13152154		•		
rs12702516				
re60004047				
1902231815		•		
rs77017252		•		
rs12416196		•		
rs10851922		•		
189500947				
139509847				
rs114945598		•		
rs941446		•		
rs6847587		•		
m2201002				
182201003				
rs28495625		•		
rs55707502		•		
rs6130613		•		
rs2359776				
107674500				
iaror45∠6				
rs4961485		•		
1024055524				



Figure S2 Leave-one-out analysis for the impact of individual SNPs on the causal effect of TT on CRC. MR, Mendelian randomization; CRC, colorectal cancer; OR, odds ratio; SNP, single nucleotide polymorphism; TT, total testosterone.

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rs7006793			 		•	 		
rs9986829					•	 		_
rs71529289					•	 	 	
rs7254216			 		•	 		
rs794614		_			•	 		
rs7679843					•	 		
rs7780066					•		 	
rs62260729					•		_	
rs73597479					•			
15/928369							_	
rs73969326					•		_	
rs9321953							-	
rs7610095					•			
rs8078625					•			
rs6473232								
rs7248104								
rs9495551	-			•		 		
rs7395670	_							
rs6854749	_			•				
rs76006132	_			•				
rs967514	_							



Figure S3 Leave-one-out analysis for the impact of individual SNPs on the causal effect of BT on CRC. MR, Mendelian randomization; CRC, colorectal cancer; OR, odds ratio; SNP, single nucleotide polymorphism; BT, bioavailable testosterone.

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Figure S4 Leave-one-out analysis for the impact of individual SNPs on the causal effect of CRC on TT. MR, Mendelian randomization; CRC, colorectal cancer; OR, odds ratio; SNP, single nucleotide polymorphism; TT, total testosterone.



Figure S5 Leave-one-out analysis for the impact of individual SNPs on the causal effect of CRC on BT. MR, Mendelian randomization; CRC, colorectal cancer; OR, odds ratio; SNP, single nucleotide polymorphism; BT, bioavailable testosterone.