GSTT1 Null Genotype Significantly Increases the Susceptibility of Urinary System Cancer: Evidences from 63876 Subjects-a Meta Analysis

Ying Wang^{1#}, Jing He^{2,3#}, Han Shen¹, Feng Li⁴, Wei Lei¹, Zhen-Ya Shen^{1*}

¹ Department of Cardiovascular Surgery of the First Affiliated Hospital& Institute for
Cardiovascular Science, Soochow University, Suzhou, Jiangsu, China
² Sun Yat-Sen University Cancer Center, State Key Laboratory of Oncology in South China,
Department of Experimental Research, Collaborative Innovation Center for Cancer Medicine,
Guangzhou 510060, Guangdong, China.

³ Department of Pediatric Surgery, Guangzhou Women and Children's Medical Center, Guangzhou Medical University, Guangzhou 510623, Guangdong, China

⁴ Department of Urinary Surgery, First Affiliated Hospital of Soochow University, Suzhou, Jiangsu, China

#Ying Wang and Jing He contributed equally.

*Correspondence to: Zhen-ya Shen, Department of Cardiovascular Surgery & Institute of Cardiovascular Science, First Affiliated Hospital of Soochow University, Suzhou, Jiangsu, China, email: <u>uuzyshen@aliyun.com</u>. Tel./Fax: (+86-0512)-67780100

Criteria	Score
Representativeness of case	
Selected from population cancer registry	2
Selected from hospital	1
No method of selection described	0
Representativeness of control	
Population-based	3
Blood donors	2
Hospital-based	1
Not described	0
Ascertainment of urinary system cancer case	
Histopathologic confirmation	2
by patient medical record	1
Not described	0
Control selection	
Controls matched with cases by age and sex	2
Controls matched with cases only by age or by sex	1
Not matched or not descried	0
Genotyping examination	
Genotyping done blindly and quality control	2
Only genotyping done blindly or quality control	1
Unblinded and without quality control	0
HWE	
HWE in the control group	1
HWD in the control group or not mentioned	0
Total sample size	
> 1000	3
501 - 1000	2
201 - 500	1
≤ 200	0

Table S1. Score of quality assessment