

Appendix 1. Confusion matrices for gender detection tools (n=20,000 given names with only the second Chinese character if the gender could not be determined with the full two-character given name)

Gender detection tool	Classified as women n (%)	Classified as men n (%)	Not classified n (%)
Gender API			
Women	2947 (36.6)	5074 (63.1)	23 (0.3)
Men	2974 (24.9)	8935 (74.7)	47 (0.4)
NamSor			
Women	2278 (28.3)	5766 (71.7)	0
Men	2377 (19.9)	9579 (80.1)	0
Wiki-Gendersort			
Women	951 (11.8)	4302 (53.5)	2791 (34.7)
Men	1215 (10.1)	6989 (58.5)	3752 (31.4)