

## **Supplementary Figure Legends**

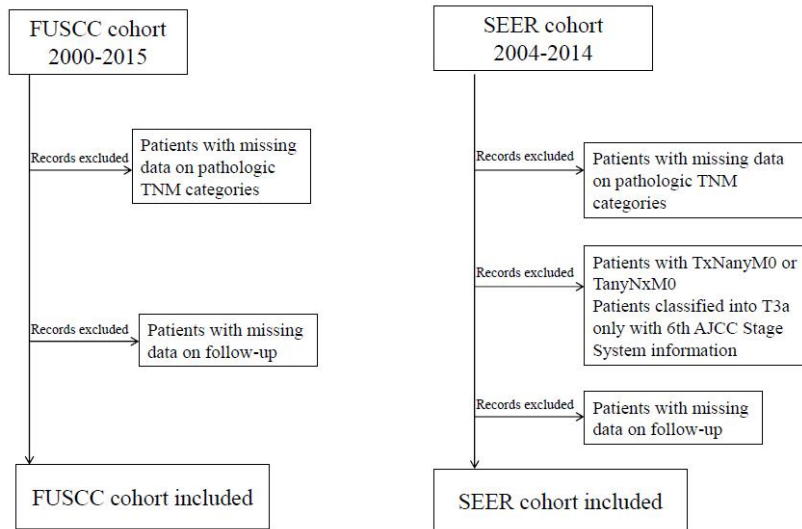
Supplementary Figure S1 Flow diagram of selection in FUSCC and SEER cohort

Supplementary Figure S2 Kaplan-Meier survival curves of the patients in each subgroup of TNM in the FUSCC cohort (A). Kaplan-Meier survival curves of the patients according to the race recode variables [White (B), Black (C), Other (D)] in SEER database.

Supplementary Figure S3 Kaplan-Meier survival curves of the patients according to histopathological types [ccRCC (C), other RCC (D), papillary RCC (E) and chromophobe carcinoma (F)] and years at diagnosis [(2004-2010 (A), after 2010 (B)] in SEER database.

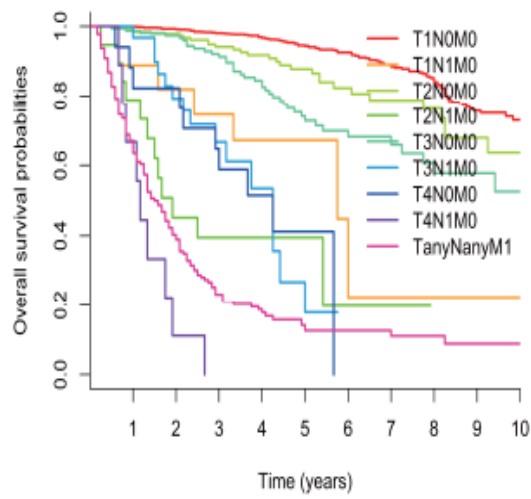
Supplementary Figure S4 Kaplan-Meier survival curves of the patients from the SEER cohort according to years at diagnosis [(2004-2010 (A,B), after 2010 (C,D)] in terms of 8th AJCC staging system or modified 8th staging system.

supplementary Figure S1

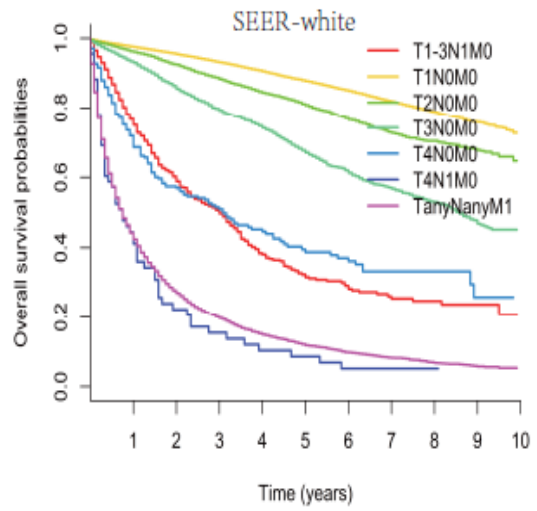


supplementary Figure S2

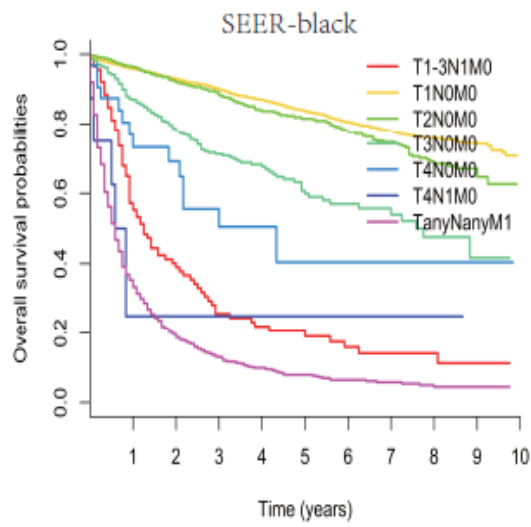
A



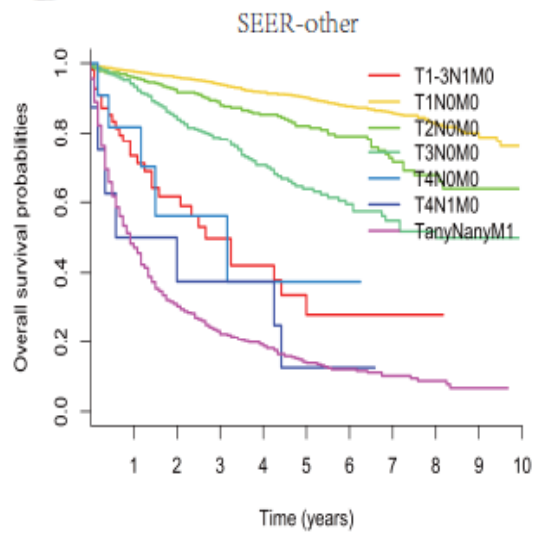
B



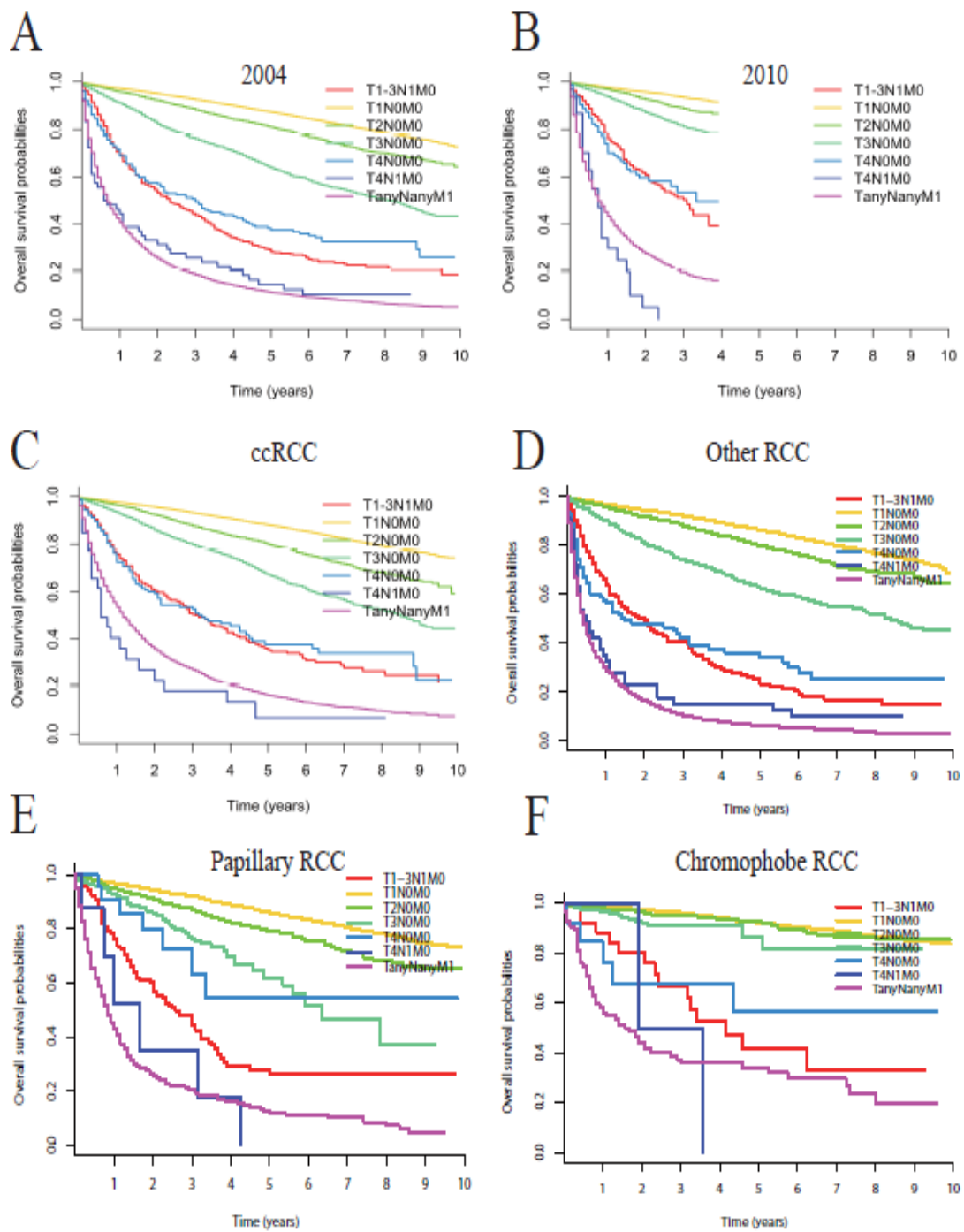
C



D



supplementary Figure S3



supplementary Figure S4

