Prognostic value from integrative analysis of transcription factors c-Jun and Fra-1 in oral squamous cell carcinoma: a multicenter cohort study

Hao Xu^{1,2,3#}, Xin Jin^{4,2#}, Yao Yuan², Peng Deng², Lu Jiang², Xin Zeng², Xiao-Song Li¹, Zhi-Yong Wang^{2*}, Qian-Ming Chen^{1,2*}.

These authors contributed equally to this work

* Corresponding author:

Qian-Ming Chen, Department of epidemiology and health statistics, West China School of Public Health, Sichuan University, 16 South Renmin Road, Chengdu 610041, China; Fax & Phone: +86 28 85405251; E-mail: qmchen@scu.edu.cn.

Zhi-Yong Wang, Department of Oral Biology and Medicine, State Key Laboratory of Oral Diseases, West China School of Stomatology, Sichuan University, 14 South Renmin Road, Chengdu 610041, China; Phone: +1 3019066811; E-mail: zhiyong.wang@scu.edu.cn.

¹ Department of epidemiology and health statistics, West China School of Public Health, Sichuan University, Chengdu 610041, China;

² Department of Oral Biology and Medicine, State Key Laboratory of Oral Diseases, West China School of Stomatology, Sichuan University, Chengdu 610041, China;

³ School of Mathematics, Sichuan University, Chengdu 610041, China;

⁴ Chongqing Key Laboratory of Oral Diseases and Biomedical Sciences, College of Stomatology, Chongqing Medical University, Chongqing 400016, China.

Titles and legends for Supplementary Figures

Supplementary Figure S1. The original immunohistochemical staining of patients' tissue from the West China Hospital of Stomatology (Chengdu, China)

- A. The immunohistochemical staining of c-Jun.
- B. The immunohistochemical staining of Fra-1

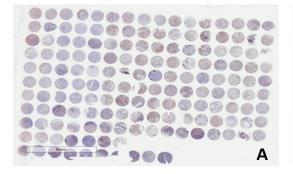
Supplementary Figure S2. The survival curves of OSCC patients with different expressions of c-Jun and Fra-1 in different tumor clinical TNM stages

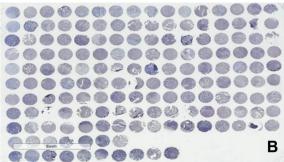
The four images above were from c-Jun's (A, B, C, D) and the below were from Fra-1 (E, F, G, H). From left to right, they were stage 1 (A, E), stage 2 (B, F), stage 3 (C, G) and stage 4 (D, H), separately. The *P* values were from the log-rank tests for the overall survival.

Supplementary Figure S3. Interaction effects between c-Jun and Fra-1 during each clinical TNM stage

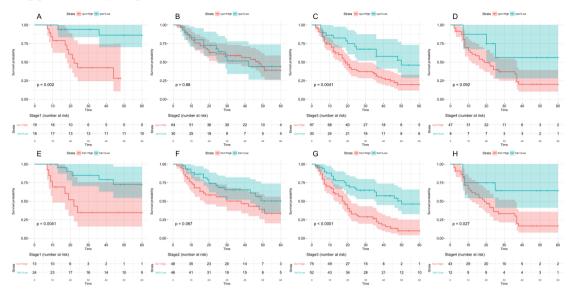
The points are the adjusted Hazzard Ratios (HRs), and the error bars are the 95% CI. The HR were from the interaction factors of c-Jun and Fra-1 in the multiple Cox models. The adjusted HRs (95%CIs; P values) are as followed: stage 1:172037(0, Inf.; P:0.9991); stage 2:0.1098 (0.0251, 0.4810; P:0.0034), stage 3:0.4056 (0.1164, 1.4140; P:0.1567), stage 4:1.1467 (0.0477, 27.5850; P:0.9328).

Supplementary Figure S1.





Supplementary Figure S2.



Supplementary Figure S3.

