Cancer Immunology, Immunotherapy (submitted in 2018) – Yi-hui Wen et al.

Characteristic		Total
Gender	Male	64
	Female	4
Age	<60	32
	≥60	36
Tumor Differentiation	Well	26
	Moderate	22
	Poor	20
Tumor Grade	T1-2	49
	Т3-4	19
Lymph Node Metastasis	No	57
	Yes	11
AJCC TNM Stage	I-II	47
	III-IV	21

supplementary Table 1. Clinical characteristics of HNSCC patients.

IL-33 expression



supplementary Figure 1. Parenchymal IL-33⁺ cells infiltration was associated with favorable prognosis in HNSCC.

(a-d) Representative figures of IL-33⁺ cells in tumor from clinical stage I to IV. (e-f) IL-33 expression is lower in both advanced T stage and clinical stage (e: 3.78 ± 0.30 and 2.032 ± 0.42 ; f: 3.77 ± 0.32 and 2.2 ± 0.39). g Parenchymal IL-33⁺ cells were significantly reduced in poorly differentiated HNSCC. **p<0.01, ***p<0.001.





supplementary Figure 2. IL-33 mediated Treg cells activation is dose-dependent.

a The suppression of the proliferation of responder T cells under different ratio, representative figures are shown. **b** IL-33 boosts the proliferation of responder T cells alone, but also increase the immunosuppressive ability of Treg cells in a dose-dependent manner, representative figures are shown. **c** IL-33 increased the proliferation of T cells without Tregs, whereas decreased the proliferation of T cells with the presence of Tregs. Data are mean \pm SEM and are representative of three independent experiments.