

**Supplementary Table S1.** Cohen Kappa analysis

	<b>B.Y Include</b>	<b>B.Y Exclude</b>	<b>S.X Include</b>	<b>S.X Exclude</b>	<b>J.Y Include</b>	<b>J.Y Exclude</b>
L.W include	38	8	28	1	33	2
L.W exclude	0	15	1	30	2	10
Cohen's k	0.7002		0.933		0.776	

**Supplementary Table S2.** Difference in average TRH methylation levels between different groups in the THR gene sequence

<b>Author (Year)</b>	<b>Cohort</b>	<b>Group (Sample): %TRH Methylation Average <math>\pm</math> SD</b>	<b><i>p</i>-Value</b>
Puttipanyalears et al. (2018)	Not applicable: validation study	OSCC: 52.96 $\pm$ 5.36 Control: 5.7 $\pm$ 0.85	<0.001*
	Cohort 1	OSCC (oral rinse): 3.77 $\pm$ 0.60 Control (oral rinse): 2.66 $\pm$ 0.76	<0.001*
		OSCC (oral swab): 4.17 $\pm$ 0.58 OSCC (oral rinse): 3.77 $\pm$ 0.60	0.0012*
	Cohort 2	OSCC (oral rinse): 3.78 $\pm$ 0.48 Control (oral rinse): 2.86 $\pm$ 0.64	<0.001*
		Oropharyngeal SCC (oral rinse): 3.54 $\pm$ 0.37 Control (oral rinse): 2.86 $\pm$ 0.64	<0.001*
		OSCC (oral rinse): 3.78 $\pm$ 0.48 Oropharyngeal SCC (oral rinse): 3.54 $\pm$ 0.37	NS

\* indicates statistically significant; NS indicates not statistically significant