

Supplementary Table 1. Clinical characteristics of patients with OSCC that were subjected to whole exome sequencing

| Sr. No.          | Sample ID | Tobacco-habit | Age | Sex | Tumor location | TNM Staging | Duration of tobacco usage  |
|------------------|-----------|---------------|-----|-----|----------------|-------------|----------------------------|
| 1                | IOB_03    | Chewer        | 44  | M   | Tongue         | T2N1MX      | Tobacco chewing for 19 yrs |
| 2                | IOB_04    | Chewer        | 60  | M   | Tongue         | T3N0MX      | Tobacco chewing for 30 yrs |
| 3                | IOB_06    | Chewer        | 56  | F   | Alveolus       | T4aN1MX     | Tobacco chewing for 46 yrs |
| 4                | IOB_07    | Chewer        | 35  | F   | Lip            | T4aN0MX     | Tobacco chewing for 20 yrs |
| 5                | IOB_08    | Chewer        | 35  | F   | Cheek          | T4aN1MX     | Tobacco chewing for 37 yrs |
| 6                | IOB_09    | Chewer        | 47  | F   | Buccal mucosa  | T2N1M0      | Tobacco chewing for 37 yrs |
| 7                | IOB_10    | Chewer        | 66  | M   | Buccal mucosa  | T4aN1MX     | Tobacco chewing for 46 yrs |
| 8                | IOB_31    | Chewer        | 70  | F   | Buccal mucosa  | T2N1M0      | Tobacco chewing for 52 yrs |
| 9                | IOB_32    | Chewer        | 45  | F   | Buccal mucosa  | T2N1M0      | Not reported               |
| 10               | IOB_33    | Chewer        | 52  | M   | Buccal mucosa  | T3N2aMX     | Tobacco chewing for 5 yrs  |
| 11               | IOB_11    | Smoker        | 55  | M   | Alveolus       | T4aN0MX     | Smoking for 35 yrs         |
| 12               | IOB_12    | Smoker        | 34  | M   | Buccal mucosa  | T4aN1MX     | Smoking for 16 yrs         |
| 13               | IOB_13    | Smoker        | 50  | M   | Buccal mucosa  | T4aN1MX     | Smoking for 30 yrs         |
| 14               | IOB_14    | Smoker        | 55  | M   | Buccal mucosa  | T4aN1MX     | Smoking for 37 yrs         |
| 15               | IOB_15    | Smoker        | 61  | M   | Lip            | NA          | Smoking for 31 yrs         |
| 16               | IOB_16    | Smoker        | 50  | M   | Lip            | T4aN2bM1    | Not reported               |
| 17               | IOB_17    | Smoker        | 44  | M   | Maxilla        | T4aN2bM0    | Not reported               |
| 18               | IOB_18    | Smoker        | 53  | M   | Tongue         | T2N1MX      | Smoking for 35 yrs         |
| 19               | IOB_19    | Smoker        | 48  | M   | Alveolus       | T4aN3MX     | Smoking for 13 yrs         |
| 20               | IOB_35    | Smoker        | 60  | M   | Tongue         | T2N0M0      | Not reported               |
| 21               | IOB_21    | Non-user      | 60  | M   | Lingual mucosa | T2N2MX      | Not applicable             |
| 22               | IOB_22    | Non-user      | 37  | F   | Hard palate    | T2N1M1      | Not applicable             |
| 23               | IOB_23    | Non-user      | 52  | F   | Tongue         | T2N1M0      | Not applicable             |
| 24               | IOB_24    | Non-user      | 75  | M   | Buccal mucosa  | T4aN2cM0    | Not applicable             |
| 25               | IOB_25    | Non-user      | 60  | M   | Buccal mucosa  | NA          | Not applicable             |
| 26               | IOB_26    | Non-user      | 62  | F   | Tongue         | NA          | Not applicable             |
| 27               | IOB_27    | Non-user      | 42  | F   | Soft palate    | NA          | Not applicable             |
| 28               | IOB_28    | Non-user      | 56  | F   | Tongue         | T3N0MX      | Not applicable             |
| 29               | IOB_29    | Non-user      | 31  | M   | Tongue         | T4aN1M0     | Not applicable             |
| 30               | IOB_30    | Non-user      | 65  | F   | Buccal mucosa  | T2N1MX      | Not applicable             |
| NA=Not available |           |               |     |     |                |             |                            |