**Population structure of *Streptococcus oralis***

Thuy Do, Keith A. Jolley, Martin C. J. Maiden, Steven C. Gilbert, Douglas Clark, William G. Wade and David Beighton

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**Supplementary Table S1.** List of strains used in this study: subject number, year of isolation, source, ST and allelic profile. Allele sequences can be found at [http://pubmlst.org/soralis/](http://pubmlst.org/soralis/)

| Strain | Subject number | Year isolated | Source | ST | aroE | ddl | gdh | gki | hexB | recP | xpt |
|--------|----------------|---------------|--------|----|------|-----|-----|-----|------|------|-----|
| 10B1   | 1              | 2001          | Carious dentine, root caries | 22 | 7    | 8   | 6   | 8   | 6    | 6    | 8   |
| 10B3   | 1              | 2001          | Carious dentine, root caries | 22 | 7    | 8   | 6   | 8   | 6    | 6    | 8   |
| 10B4   | 1              | 2001          | Carious dentine, root caries | 41 | 19   | 8   | 6   | 8   | 6    | 6    | 8   |
| 11A10  | 2              | 2001          | Carious dentine, root caries | 11 | 5    | 6   | 5   | 6   | 5    | 5    | 5   |
| 11A11  | 2              | 2001          | Carious dentine, root caries | 11 | 5    | 6   | 5   | 6   | 5    | 5    | 5   |
| 11A12  | 2              | 2001          | Carious dentine, root caries | 11 | 5    | 6   | 5   | 6   | 5    | 5    | 5   |
| 11A13  | 2              | 2001          | Carious dentine, root caries | 11 | 5    | 6   | 5   | 6   | 5    | 5    | 5   |
| 11A14  | 2              | 2001          | Carious dentine, root caries | 11 | 5    | 6   | 5   | 6   | 5    | 5    | 5   |
| 12D1   | 3              | 2001          | Carious dentine, root caries | 45 | 23   | 5   | 10  | 2   | 10   | 8    | 12  |
| 12D3   | 3              | 2001          | Carious dentine, root caries | 33 | 12   | 5   | 10  | 2   | 10   | 8    | 12  |
| ID   | Year | Code | Caries Details                                                                 |
|------|------|------|--------------------------------------------------------------------------------|
| 13C2 | 4    | 2001 | Carious dentine, root caries                                                  |
| 16A2 | 5    | 2001 | Carious dentine, root caries                                                  |
| 16B1 | 5    | 2001 | Carious dentine, root caries                                                  |
| 16b2 | 5    | 2001 | Carious dentine, root caries                                                  |
| 16B3 | 5    | 2001 | Carious dentine, root caries                                                  |
| 16B4 | 5    | 2001 | Carious dentine, root caries                                                  |
| 16B5 | 5    | 2001 | Carious dentine, root caries                                                  |
| 179TC 1 | 6 | 2005 | Carious dentine, root caries                                                  |
| 179TC 2 | 6 | 2005 | Carious dentine, root caries                                                  |
| 18A2 | 7    | 2001 | Carious dentine, root caries                                                  |
| 18B2 | 7    | 2001 | Carious dentine, root caries                                                  |
| 19b5 | 8    | 2001 | Carious dentine, root caries                                                  |
| 1B1  | 9    | 2001 | Carious                                                                       |
| Code | Year | Date | Description                                      | Values |
|------|------|------|--------------------------------------------------|--------|
| 1B2  | 9    | 2001 | dentine, root caries Carious dentine, root caries | 5 3 3 3 3 3 3 3 3 |
| 2228 | 10   | 1993 | dentoalveolar abscess dentoalveolar abscess     | 1 1 1 1 1 1 1 1 1 |
| 2239 | 10   | 1993 | dentoalveolar abscess Dentoalveolar abscess     | 35 14 11 12 11 11 13 |
| 2248 | 10   | 1993 | Carious dentine, root caries Carious dentine, root caries | 50 28 23 1 1 24 1 1 |
| 23B3 | 11   | 2001 | Carious dentine, root caries Carious dentine, root caries | 21 6 2 5 6 5 5 5 |
| 23b6 | 11   | 2001 | Carious dentine, root caries Carious dentine, root caries | 4 2 2 10 20 2 19 2 |
| 2B10 | 12   | 2001 | Carious dentine, root caries Carious dentine, root caries | 10 5 5 5 5 5 5 5 6 |
| 2D1  | 12   | 2001 | Carious dentine, root caries Carious dentine, root caries | 10 5 5 5 5 5 5 5 6 |
| 2i1  | 12   | 2001 | Carious dentine, root caries Carious dentine, root caries | 16 5 5 5 21 23 5 6 |
| 2i2  | 12   | 2001 | Carious dentine, root caries Carious dentine, root caries | 10 5 5 5 5 5 5 5 6 |
| 3A1  | 13   | 2001 | Carious dentine, root caries Carious dentine, root caries | 48 26 9 7 22 7 7 9 |
| 3A13 | 13   | 2001 | Carious dentine, root caries Carious dentine, root caries | 34 13 9 7 9 7 7 9 |
| 3A14 | 13   | 2001 | Carious dentine, root caries Carious dentine, root caries | 23 8 9 7 9 7 7 9 |
| Code  | Tooth | Year | Description                                                                 |
|-------|-------|------|-----------------------------------------------------------------------------|
| 3C13  | 13    | 2001 | Root caries, Carious dentine, root caries                                    |
| 3C6   | 13    | 2001 | Root caries, Carious dentine, root caries, Subgingival plaque, deep periodontal pocket, periodontitis |
| 408   | 14    | 1985 | Subgingival plaque, deep periodontal pocket, periodontitis                  |
| 5B2   | 15    | 2001 | Root caries, Carious dentine, root caries                                    |
| 6B2   | 16    | 2001 | Root caries, Carious dentine, root caries                                    |
| 6BC13 | 16    | 2001 | Root caries, Carious dentine, root caries                                    |
| 6BC7  | 16    | 2001 | Root caries, Carious dentine, root caries                                    |
| 6C12  | 16    | 2001 | Root caries, Carious dentine, root caries                                    |
| 6C3   | 16    | 2001 | Root caries, Carious dentine, root caries                                    |
| 7BE17 | 17    | 2001 | Root caries, Carious dentine, root caries                                    |
| 9A1   | 18    | 2001 | Root caries, Carious dentine, root caries                                    |
| Code   | Year | Date   | Description                  | Measurements   |
|--------|------|--------|------------------------------|----------------|
| 9A10   | 18   | 2001   | Carious dentine, root caries  | 24 8 12 12 13 20 12 15 |
| 9A19   | 18   | 2001   | Carious dentine, root caries  | 31 10 12 12 13 20 12 15 |
| 9A2    | 18   | 2001   | Carious dentine, root caries  | 13 5 2 5 5 17 5 20 |
| 9B1    | 18   | 2001   | Carious dentine, root caries  | 9 5 2 5 5 5 5 5  |
| 9B2    | 18   | 2001   | Carious dentine, root caries  | 9 5 2 5 5 5 5 5 5 |
| 9B3    | 18   | 2001   | Carious dentine, root caries  | 9 5 2 5 5 5 5 5 5 |
| 9B4    | 18   | 2001   | Carious dentine, root caries  | 17 5 2 5 5 26 5 5 5 |
| E10-38 | 19   | 2005   | Interproximal plaque, caries free | 15 5 2 5 6 5 5 5 5 |
| E11-38 | 20   | 2005   | Interproximal plaque, caries free | 18 5 24 5 6 5 5 6  |
| E1-22  | 21   | 2005   | Interproximal plaque, caries free | 29 9 16 5 2 7 10 10  |
| E12-3  | 22   | 2005   | Interproximal plaque, caries free | 53 31 5 17 11 27 8 22  |
| E13-40 | 23   | 2005   | Interproximal plaque, caries free | 55 32 25 22 23 7 12 25  |
| Code   | Year | Interproximal plaque, caries free | Year | Interproximal plaque, caries free | Year | Interproximal plaque, caries free | Year | Interproximal plaque, caries free | Year | Interproximal plaque, caries free |
|--------|------|----------------------------------|------|----------------------------------|------|----------------------------------|------|----------------------------------|------|----------------------------------|
| E2-29  | 2005 | 56 33 2 5 24 5 5 5                | E3-27| 2005 | 57 34 24 7 25 28 18 15           | E5-22| 2005 | 59 35 26 23 26 36 21 23           | E6-13| 2005 | 58 34 16 24 2 7 8 10             |
| E7-16  | 2005 | 73 48 7 12 2 7 22 15              | E8-2 | 2005 | 19 5 10 5 5 5 18 24              | E9-1 | 2005 | 20 5 5 2 6 5 5 5 6               | F23B6| 2005 | 54 31 2 10 20 2 19 2             |
| F26B1  | 2005 | 60 36 27 25 27 5 8 25             | P2D2 | 2002 | 6 4 4 4 4 4 4 4 4               |      |                                  |      |                                  |      |                                  |
| Sample ID | ID  | Year | Description                                      | Scores |
|-----------|-----|------|--------------------------------------------------|--------|
| P2D2_2   | 33  | 2002 | Carious dentine, occlusal caries                  | 6 4 4 4 4 4 4 4 |
| P2D2_3   | 33  | 2002 | Carious dentine, occlusal caries                  | 6 4 4 4 4 4 4 4 |
| P2D2_5   | 33  | 2002 | Carious dentine, occlusal caries                  | 6 4 4 4 4 4 4 4 |
| P2D2_6   | 33  | 2002 | Carious dentine, occlusal caries                  | 6 4 4 4 4 4 4 4 |
| P2D2_7   | 33  | 2002 | Carious dentine, occlusal caries                  | 6 4 4 4 4 4 4 4 |
| P2D2_8   | 33  | 2002 | Carious dentine, occlusal caries                  | 6 4 4 4 4 4 4 4 |
| SB10B    | 34  | 2006 | Supra-gingival plaque, caries free                | 21 6 2 5 6 5 5 5 |
| SB11A    | 35  | 2006 | Supra-gingival plaque, caries free                | 15 5 2 5 6 5 5 5 |
| SB14A    | 36  | 2006 | Supra-gingival plaque, caries free                | 68 41 5 2 2 7 2 14 |
| SB15A    | 37  | 2006 | Supra-gingival plaque, caries free                | 74 49 28 26 28 38 23 26 |
| SB16A    | 38  | 2006 | Supra-gingival plaque, caries free                | 61 36 2 2 2 7 2 14 |
| SB17F    | 39  | 2006 | Supra-gingival plaque, caries free                | 62 37 29 27 29 29 24 27 |
| Code   | Year | Year | gingival plaque, caries free supragingival plaque, caries free |
|--------|------|------|-------------------------------------------------------------|
| SB18B  | 40   | 2006 | 71 45 39 37 2 5 8 31                                       |
| SB19A  | 41   | 2006 | 63 38 30 28 30 30 10 14                                     |
| SB1A   | 42   | 2006 | 67 40 5 17 11 27 8 22                                      |
| SB20A  | 43   | 2006 | 8 4 31 29 5 31 25 24                                       |
| SB2C   | 44   | 2006 | 64 1 32 30 25 5 18 24                                      |
| SB3A   | 45   | 2006 | 65 39 33 19 2 37 8 12                                      |
| SB4D   | 46   | 2006 | 72 46 35 38 25 32 8 32                                      |
| SB5G   | 47   | 2006 | 69 42 40 32 32 39 27 28                                     |
| SB6C   | 48   | 2006 | 66 40 34 31 31 34 26 14                                     |
| SB7A   | 49   | 2006 | 21 6 2 5 6 5 5 5                                           |
| Sample | Year | Gingival Plaque | Caries Free | Carious Dentine | Root Caries |
|--------|------|----------------|-------------|----------------|-------------|
| U10B1 6 | 1998 | 12 5 7 5 7 5 5 7 | Carious | Carious | Dentine, Root Caries |
| U10B2 50 | 1998 | 3 2 19 17 19 18 8 5 | Carious | Carious | Dentine, Root Caries |
| U14B1 3 | 1998 | 40 18 21 18 16 19 13 10 | Carious | Carious | Dentine, Root Caries |
| U14B5 51 | 1998 | 46 24 21 18 16 22 13 10 | Carious | Carious | Dentine, Root Caries |
| U1B29 52 | 1998 | 2 2 2 2 2 2 2 2 | Carious | Carious | Dentine, Root Caries |
| U1B8 52 | 1998 | 2 2 2 2 2 2 2 2 | Carious | Carious | Dentine, Root Caries |
| U1B39 52 | 1998 | 2 2 2 2 2 2 2 2 | Carious | Carious | Dentine, Root Caries |
| U1B41 52 | 1998 | 2 2 2 2 2 2 2 2 | Carious | Carious | Dentine, Root Caries |
| U1B43 52 | 1998 | 2 2 2 2 2 2 2 2 | Carious | Carious | Dentine, Root Caries |
| U1B5 52 | 1998 | 2 2 2 2 2 2 2 2 | Carious | Carious | Dentine, Root Caries |
| U3B26 53 | 1998 | 42 2 2 2 2 2 2 2 | Carious | Carious | Dentine, Root Caries |
| U4B4 54 | 1998 | 38 20 17 15 17 15 16 18 | Carious | Carious | Dentine, Root Caries |
| Code   | Age | Year |
|--------|-----|------|
| U4B9   | 54  | 1998 |
| U6B15  | 55  | 1998 |
| U7B10  | 56  | 1998 |
| U7B3   | 56  | 1998 |
| U7B4   | 56  | 1998 |
| U7B6   | 56  | 1998 |
| U7B8   | 56  | 1998 |
| U7B9   | 56  | 1998 |
| U8A13  | 57  | 1998 |
| U8A5   | 57  | 1998 |

| Caries Dentine, Root Caries | Year |
|-----------------------------|------|
| U4B9 54 1998                | 39 17 14 5 15 14 14 17 |
| U6B15 55 1998               | 26 18 15 14 16 2 15 10 |
| U7B10 56 1998               | 52 9 16 5 2 7 8 10 |
| U7B3 56 1998                | 32 30 5 9 11 9 10 5 |
| U7B4 56 1998                | 32 11 5 9 11 9 10 5 |
| U7B6 56 1998                | 32 11 5 9 11 9 10 5 |
| U7B8 56 1998                | 32 11 5 9 11 9 10 5 |
| U7B9 56 1998                | 32 11 5 9 11 9 10 5 |
| U8A13 57 1998               | 25 11 5 9 11 9 10 5 |
| U8A5 57 1998                | 25 9 10 5 2 7 8 10 |