**Supplementary Table 1：Specific bacteria primer sequences for qPCR**

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| Bacteria | Forward primer (5′–3′) | Reverse primer (5′–3′) |
| *P.intermedia* | CGGCCTAATACCCGATGTTG | CCCATCCTCCACCGATGA |
| *F. nucleatum* | AAGCGCGTCTAGGTGGTTATGT | TGTAGTTCCGCTTACCTCTCCAG |
| *P.gingivalis* | TAGCTTGCTAAGGTCGATGG | CAAGTGTATGCGGTTTTAGT |
| *P. endodontalis* | TATTGACAAGGCTGTGGCTACC | TTCTTCGTCCCCATTAGCCGA  |