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## ACCEPTED MANUSCRIPT

# **Detection of** *Tannerella forsythia bspA* and *prtH* genotypes among periodontitis patients and healthy subjects – a case - control study.

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#### Highlights

- The high odds ratio for *T.forsythia 16S rRNA* among periodontitis strongly suggests its role in periodontitis among South Indian population as well.
- A high prevalence of *T. forsythia bspA* genotype in Chronic Periodontitis signifies it as a useful marker for chronic periodontitis.
- A very low prevalence of *T.forsythia 16S rRNA & T. forsythia bspA* in healthy subjects further strongly validates its role in periodontitis.

#### Abstract:

**Background:** *T. forsythia* a gram negative, anaerobe inhabits the mature biofilm present at sites expressing progressive periodontitis. It is a part of "red complex" group which contributes to the pathogenesis of periodontitis. The BspA protein and *prtH* gene encoded cysteine protease play a vital role in the virulence of *T. forsythia*. The present study aims to detect the two genotypes (*bspA* and *prtH*) in periodontitis and healthy subjects. **Materials & Method:** Subgingival plaque samples were collected from periodontitis patients and healthy subjects (Chronic Periodontitis

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