

WHAT IS CLAIMED IS

1. A method of determining whether a patient is predisposed to having severe periodontal disease and/or having high risk of progression of periodontal disease, comprising the steps of:
 - (i) ~~taking a biological sample from said patient;~~
 - (ii)(i) genotyping said a biological sample obtained from the patient for genetic polymorphism pattern comprising IL 1B (rs16944), IL 1B (rs1143623) and IL 1B (rs4848306);
 - (iii)(ii) comparing said genetic polymorphism pattern to a reference composite genotype pattern, wherein the similarity of said genetic polymorphism pattern to said reference pattern indicate said patient's predisposition to having severe periodontal disease and/or having high risk of progression of periodontal disease.
2. The method of claim 1, wherein said biological sample is saliva, buccal cells, blood, tissue samples or urine.
3. The method of claim 1, wherein said genetic polymorphism pattern further comprises IL 1B (rs1143633).
4. The method of claim 1 for determining whether said patient is predisposed to having severe periodontal disease.
5. The method of claim 1 for determining said patient's risk of progression of periodontal disease.
6. The method of claim 1, wherein said patient is Caucasian, African, Chinese or other ethnicities.
7. A testing kit for determining whether a patient is predisposed to having severe periodontal disease and/or having high risk of progression of periodontal disease, comprising:
 - (i) biological sample collection means;
 - (ii) a means for determining genetic polymorphism pattern comprising IL 1B (rs16944), IL 1B (rs1143623) and IL 1B (rs4848306); and
 - (iii) a control sample as a reference.
8. The test kit of claim 7, wherein said genetic polymorphism pattern further comprises IL 1B (rs1143633).