

# **Cellular and biochemical aspects of the human periodontal diseases**

University of Birmingham - The association between rheumatoid arthritis and periodontal disease

Description: -

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## Matrix metalloproteinases (MMPs) and their role in periodontal diseases: space nebulus to

Inflammation can also be caused by allergic reactions to materials used in dental restorations, specific toothpastes, mouthwashes, and even some foods. Causation and pathogenesis of periodontal disease. MMP-3 MMP-3, also known as stromelysin-1 and transin-1, cleaves a number of substrates including cartilage proteoglycan, collagen Type ..... .

CAB Direct

Gingival Enlargement Gingival enlargement is the overgrowth of the gingiva characterized by an expansion and accumulation of the connective tissue with occasional presence of increased number of cells. Journal of Periodontology, 69, 120-128. Prevalence of periodontitis and suspected periodontal pathogens in families of adult periodontitis patients.

## **Interactions between periodontal bacteria and human oral epithelial cells: *Fusobacterium nucleatum* adheres to and invades epithelial cells**

Separate meta-analyses were performed for the associations with salivary IL-8 2 studies and gingival crevicular fluid IL-8 7 studies , finding mixed results for salivary IL-8 and lower concentrations of IL-8 in gingival crevicular fluid of patients with chronic periodontitis

## Genetic characteristics and pathogenic mechanisms of periodontal pathogens

Moreover, research on the etiopathogenesis of periodontal diseases has suggested the role of environmental 5, behavioral 6, 7, and genetic 8 risk factors in periodontal disease progression, but most, if not all forms of periodontitis, should be viewed primarily as infectious diseases.

## Periodontal diseases

This initiative is a collaboration between several academic institutions across the world and is funded by the National Institutes of Health. No acute or chronic toxicity reactions have ever been reported in the long history of use of Echinacea.

### **Biology/Oral Biology**

Bioperine® has been shown to be devoid of any toxic effects.

### **Periodontal Nutritional Summary**

#### **Microbiology of periodontal diseases**

Contents available in the book..... Contents available in the book..... International Users: Conclusion Micro-organisms are the primary etiology of periodontal diseases.

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