

II INTERNATIONAL SYMPOSIUM ON SCIENCE AND BIOTECHNOLOGY ENTREPRENEURSHIP AND INNOVATION

MOLECULAR MARKERS IN THE DIAGNOSIS OF PERIODONTAL DISEASE

1Queila Da Luz Samistraro; 2César Milton Baratto; 3Acir José Dirschnabel; 4Claudiana Locatelli

1. Mestranda do Programa de Pós Graduação em Ciência e Biotecnologia da Universidade do Oeste de Santa Catarina - Videira, SC *Corresponding Author.

2. Doutor Professor do Programa de Pós Graduação em Ciência e Biotecnologia.
cesar.baratto@unoesc.edu.br

3. Doutor Professor do Curso de Odontologia da Universidade do Oeste de Santa Catarina - Joaçaba - acir.dirschnabel@unoesc.edu.br

4. Doutora Professora do Programa de Pós Graduação em Ciência e Biotecnologia.
claudiana.locatelli@unoesc.edu.br

Abstract

Periodontal diseases are highly complex and have etiology multifactorial, with the participation of numerous biological mechanisms. This work aims to discuss some scientific research that uses molecular biology methods to evaluate periodontal disease. Several studies in the literature show that these tools can understanding the mechanisms involved in pathogenesis and the identification of new biomarkers of periodontal diseases, which can be used future diagnoses to detect the presence of active disease, to predict progression and evaluate the response to periodontal therapy. Several markers of lipid peroxidation, protein oxidation and DNA damage induced by reactive oxygen species can be measured in saliva or oral mucosa. Clinical studies have shown an association with oral pathologies at least for some of the established salivary markers of oxidative stress. The results showed an important correlation between oxidative stress biomarkers and periodontal disease.

**Programa de Mestrado Acadêmico
em Ciência e Biotecnologia**

6 a 10 de novembro de 2017
Unoesc Videira

II INTERNATIONAL SYMPOSIUM ON SCIENCE AND BIOTECHNOLOGY ENTREPRENEURSHIP AND INNOVATION

Keywords: Biological markers. Oxidative stress. Periodontal disease

E-mail: queilaluz@hotmail.com

6 a 10 de novembro de 2017

Unesc Videira

**Programa de Mestrado Acadêmico
em Ciência e Biotecnologia**