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G Kaarthikeyan

Saveetha Dental College and Hospitals, India

Association of 3'UTR gene polymorphisms of TLR4, NLRP3, miRNA and periodontitis in South Indian ethnicity

Periodontitis is a chronic inflammatory disease of multifactorial etiology. Although Gram negative anaerobes are essential in initiating the disease, many other factors determine the course and progression of the periodontal destruction. Among the various risk factors, the genetic component of the host plays a major role in periodontal destruction. The microbial agents are first screened by the pattern like receptors – Toll like Receptors (TLR) and the signals are processed intracellularly by Nod like receptors - NLRP3. Thus the aim of my study was to analyze the association of 3'UTR polymorphisms of *TLR4*, *NLRP3* gene and the micro RNAs regulating these regions. The subjects were stratified into three groups - Chronic periodontitis, aggressive periodontitis and controls. The sample size was 240. DNA extraction from blood samples done and the polymorphisms were analyzed using real time PCR. The *TLR4* (rs11536889), *NLRP3* (rs10802501), *miR-146a* (rs2910164) were analyzed in this study.

Biography

G Kaarthikeyan did his Post-graduation in Periodontics and Implantology from Saveetha Dental College in 2007. He is working at Saveetha University as faculty since 2007. He is currently working as Professor and Clinic Head at Saveetha Dental College. He has more than 30 publications in various national and international journals. He has presented papers and posters at various international conferences. He has delivered many guest lectures as well as invited speeches for many conferences. His area of research involves the role of genetics in inflammatory disease and regenerative periodontics. He is the Editor of the upcoming journal - *International Journal of Periodontal Rehabilitation*. He is a Reviewer of many indexed journals and Editorial Board Member of few journals.

drkarthik79@yahoo.co.in

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