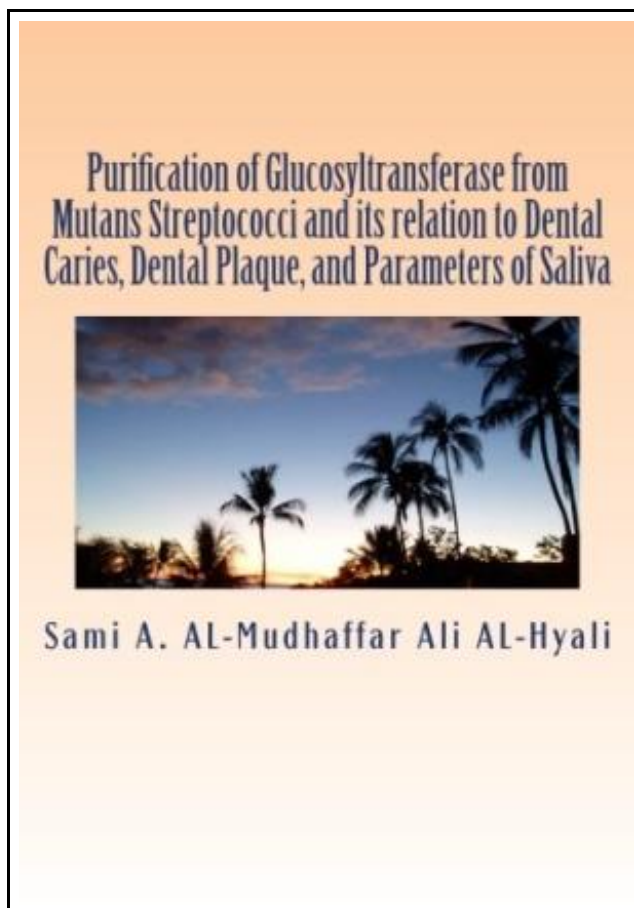


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Createspace, 2015. Paperback. Book Condition: New. 244 x 170 mm. Language: English . Brand New Book ***** Print on Demand *****.In the present study, mutans streptococci were isolated from saliva and dental plaque of twenty one dental students, in order to study the relation between the number of these bacteria and caries experience. Clinical examination was performed in the dental clinic. Dental plaque was measured using plaque index. Plaque samples were removed from the buccal surfaces of lower first and second permanent molars, while stimulated salivary samples were collected under standardized condition. Plaque and salivary samples were analyzed following different microbiological and biochemical tests for identification of bacteria according to biotypes. Results showed that all subjects were affected by dental caries. A positive and highly significant correlation was recorded between plaque index and DMFS index. An inverse and strong correlation was recorded between plaque thickness and both salivary parameters (pH and flow rate). At the same time a negative and highly significant correlation coefficient were reported between DMFS and both salivary pH and flow rate. In this study, three biotypes of mutans streptococci were identified from both plaque and salivary samples, including biotype I, IV and V. A strong positive correlation was seen between dental plaque and counts of bacteria in both salivary and plaque samples. In relation to dental caries a positive and statistically highly significant correlation was seen between counts of bacteria and initial caries lesions while it was statistically not significant for frank cavitations. The activity of GTF purified from biotype I and IV of mutans streptococci was investigated in relation to dental caries. The activity of this enzyme was assessed by measuring the total carbohydrate and glucose. Results showed a positive and highly significant correlation between DMFS and enzyme activity of both biotypes (I and IV) of...



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