

# Contents

March 1981, Vol. 60, No. 3

## CLINICAL SCIENCE

- 674 The Relationship Between Inflammation and cAMP Level in Human Gingiva—T. M. A. ELATTAR and H. S. LIN
- 677 Traumatized Anterior Teeth in Iraqi and Sudanese Children—A Comparative Study—V. S. BAGHDADY, L. J. GHOSE, and H. ENKE
- 681 Failure at the Margin of Amalgams as Affected by Cavity Width, Tooth Position, and Alloy Selection—J. W. OSBORNE and E. N. GALE
- 686 The Effects of Desensitizing Agents on the Hydraulic Conductance of Human Dentin *in vitro*—J. D. GREENHILL and D. H. PASHLEY
- 699 Masticatory Muscle Silent Periods in Patients with MPD Syndrome Before and After Treatment—T. J. SKIBA and D. M. LASKIN

## MATERIALS SCIENCE

- 707 *In vitro* Corrosion and Tarnish Analysis of the Ag-Pd Binary System—T. K. VAIDYANATHAN and A. PRASAD
- 716 Effect of Moisture Contamination on High-Copper Amalgam—T. YAMADA and T. FUSAYAMA

## ANNOTATIONS

- 724 Continuous Measurement of Plaque pH *in vitro*—J. P. BROWN, C. T. HUANG, M. D. OLDERSHAW, and B. G. BIBBY
- 725 The Crosslinking Agent Ethylene Glycol Dimethacrylate Content of the Currently Available Acrylic Denture Base Resins—R. G. HILL
- 727 *In vitro* Metabolism of 4-androstene-3,17-dione by Rhesus Monkey Submandibular Gland Homogenates—J. C. COFFEY and R. E. JOHNSONBAUGH
- 729 Impaired Neutrophil Chemotaxis in Diabetic Patients with Severe Periodontitis—M. MANOUCHEHR-POUR, P. J. SPAGNUOLO, H. M. RODMAN, and N. F. BISSADA
- 731 Comparative Sliding-wear Behavior of a Dental Amalgam and a Composite Restorative as a Function of Contact Stress—WILLIAM F. BAILEY and STEPHEN L. RICE

## BASIC BIOLOGICAL SCIENCES

- 733 Secretion of Monovalent Ions and Water in Ferret Salivary Glands: A Micropuncture Study—J. A. MANGOS, R. L. BOYD, G. M. LOUGHLIN, A. COCKRELL, and R. FUCCI
- 738 Age-related Changes in the Cellular Level of Amylase and Protein Synthesis in the Rat Parotid Gland—S.-K. KIM
- 748 Biosynthesis of Prostaglandin E<sub>2</sub> and F<sub>2α</sub> in Gingiva of Patients with Chronic Periodontitis—T. M. A. ELATTAR and H. S. LIN
- 751 The Laser-Raman Spectroscopic Studies on Human Enamel and Precipitated Carbonate-containing Apatites—M. NISHINO, S. YAMASHITA, T. AOBA, M. OKAZAKI, and Y. MORIWAKI
- 756 Rapid Quantitative Determination of the Effect of Antiplaque Agents and Antisera on the Growth, Acid Production, and Adherence of *Streptococcus mutans*—J. E. CIARDI, A. B. ROSENTHAL, and W. H. BOWEN
- 763 Comparison of *in vitro* and *in vivo* Dog Dentin Permeability—D. H. PASHLEY, T. KEHL, E. PASHLEY, and P. PALMER

Announcements, 680, 685, 706, 715, 723, 726, 728, 730, 732, 747, 762