

CONTENTS

March-April, 1960. Vol. 39, No. 2

- 203 Editorial Views and News
- 204 International Association for Dental Research Announcement of 1961 General Meeting
- 205 The Localization of Microorganisms in Inflamed Dental Pulps of Rats Following Bacteremia—GEORGE W. BURKE, JR., and HOLMES T. KNIGHTON
- 215 Periodontal Disease in Six Strains of Inbred Mice—PAUL N. BAER and JACOB E. LIEBERMAN
- 226 Cytotoxic Effect of Dental Local Anesthetics on Tissue Culture—DORAN D. ZINNER, JAMES M. JABLON, MURRAY SANDERS, and MILTON S. SASLAW
- 233 Microradiographic and Polarized-Light Studies of Artificially Produced Lesions—NARENDAR NATH SONI and FINN BRUDEVOLD
- 241 Studies of *Corynebacterium* Isolated from Non-exposed Human Pulp Canals—LUCILE S. SMITH, PAUL R. THOMASSEN, and JOHN K. YOUNG
- 253 Influence of Artificial Tooth Forms on Bone Deformation beneath Complete Dentures—JOHN J. SHARRY, HAROLD C. ASKEW, and HEINZ HOYER
- 267 Endotoxic Properties of Oral Bacteria as Revealed by the Local Shwartzman Reaction—STEPHAN E. MERGENHAGEN
- 273 Marginal Penetration of Dental Restorations by Different Radioactive Isotopes—ROBERT E. GOING, MAURY MASSLER, and HAROLD L. DUTE
- 285 The Correlation of *Lactobacillus* Count and Gamma Globulin Level of Human Saliva—P. D. TOTO, T. GRISAMORE, G. W. RAPP, R. DELO, and H. HAMMOND
- 289 A Geometrical Evaluation of Image Size in Dental Radiography—POUL GRØN
- 302 Periodontal Disease in India: Report of an Epidemiological Study—JOHN C. GREENE
- 313 Selective Colorimetric Determination of Local Anesthetics Containing a Tertiary Amine—EDWARD G. FELDMANN and HENRY M. KOEHLER
- 320 Acid Production in Sucrose by Oral Bacteria as Means of Estimating Caries Activity (Rickles Test)—MARJORIE K. GARDNER and MARSHALL L. SNYDER
- 332 Induction of Dental Caries and Pathological Changes in Periodontium of Rat with Hydrogen Peroxide and Other Oxidizing Agents—MAX SHAPIRO, VED BRAT, and BENJAMIN H. ERSHOFF

- 344 Studies in the Design and Analysis of Dental Experiments. II. A Four-Way Analysis of Variance—NEAL W. CHILTON
- 361 Mesial Margin Ridging of Incisor Labial Surfaces—RICHARD G. SNYDER
- 365 The Oral Yeast-Lactobacillus Relationship. III. Growth Enhancement of *Lactobacillus casei* by *Candida albicans* and Saliva—THOMAS E. WILSON and PAUL W. GOAZ
- 372 Pyrophosphate: A Factor in Tooth Erosion—G. W. RAPP, ALDONA PRAPUOLENIS, and JOHN MADONIA
- 377 Partial Substitution of Hexitols for Sucrose and Dextrin in Caries-producing Diets—JAMES H. SHAW and DERRICK GRIFFITHS
- 385 Cementum of Periodontally Diseased Teeth from India—GERD MÜLLER and H. A. ZANDER
- 391 Physical Properties of Elastic Duplicating Materials—R. G. CRAIG and F. A. PEYTON
- 405 Errors and Discrepancies in Measurement of Tooth Size—W. STUART HUNTER and WILLIAM R. PRIEST
- 415 The Effect of Diet and Parotid Gland Secretions on Dental Caries in Rats—S. ROSEN, C. A. HOPPERS, and H. R. HUNT

RESEARCH ANNOTATIONS

- 420 The Effects of Citric and Phosphoric Acids on the Teeth—L. M. DALDERUP

INTERNATIONAL ASSOCIATION FOR DENTAL RESEARCH

- 422 Sections and Officers
- 423 Supporting Associates 1960