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From Surgical Department II
Ullevål Hospital, University of Oslo, Norway
Head: Professor Dr.med. Snorre Aune

Intragastric Pressure/Volume Relationship

A clinical and experimental study

by

Jan O. Stadaas

Oslo 1974

FROM DEPARTMENT OF SURGERY, STATE UNIVERSITY OF NEW YORK
AT BUFFALO, AND THE SURGICAL RESEARCH LABORATORIES,
EDWARD J. MEYER MEMORIAL INSTITUTE, BUFFALO, N.Y. (HEAD: W. G. SCHENK JR.)
AND
FROM THE INSTITUTE OF SURGICAL RESEARCH, RIKSHOSPITALET,
UNIVERSITY OF OSLO, OSLO. (HEAD: E. AMUNDSEN)

Hemodynamic Changes in Acute Thrombin-induced Intravascular Coagulation

An Experimental Study in Dogs

By
JOHAN HØIE

OSLO 1974

Laboratory of Histochemistry, Institute of Pathology
Rikshospitalet, Oslo, Norway

ANDROGEN TRANSPORT AND RECEPTOR MECHANISMS IN TESTIS AND EPIDIDYMISS

By
Vidar Hansson

Oslo 1974

OSLO

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27 East 102nd Street
New York, N. Y. 10029

1974

?

Regulation of Glyceride Biosynthesis

*A study on
glycerol 3-phosphate
acylating enzymes in animals*

by

Ludvig N.W. Daac

Fellow of the Norwegian Research Council for
Science and the Humanities

Oslo 1974

Institute for Surgical Research, Rikshospitalet,
Institute of Pathology, Rikshospitalet, and
Sophies Minde, Orthopaedic Hospital,
University of Oslo, Norway

Autogenous Transplantation of Apophyseal Cartilage to Osteochondral Defects of Joints

*An experimental study
in dogs*

By
PAL BENUM

ERRATA

Acta Orthop. Scand. Suppl. 156 by P. Benum

- p. 19, line 31: 'part og each' should be 'part of each'
- p. 34, line 7: 'd60cussion' should be 'discussion'
- p. 34, line 20: 'had became necrotic (Figure 27, B and C)' should be
'had become necrotic (Figure 27 B)'
- p. 50, line 20: 'harly' should be 'hardly'
- p. 72, last line: 'Glenkankylosen' should be 'Gelenkankylosen'
- in legend to Figure 21 A, line 20: 'fribrocartilage' should be 'fibrocartilage'
- >— Figure 25 C, line 5: 'fibrorcartilage' should be 'fibrocartilage'
- >— Figure 34 D, line 4: 'and lined' should be 'and are lined'

Changes in
Microvascular Permeability
Characteristics During
Experimental Thrombocytopenia

*With special reference to blood platelet production,
blood platelet level and
erythrocyte leakage from microvessels.*

By
IVAR AURSNES

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1974
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Secretory Proteins from Primate Parotid Glands

A Biochemical Study with Special Reference to
the Basic Proline-rich Glycoprotein Fraction
and Its Biosynthesis

By

Pål Arneberg

A Thesis

University of Oslo

1974

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New York, N. Y. 10029

1974

?

**Institute for Surgical Research,
Rikshospitalet, Oslo
and Martina Hansens Hospital, Sandvika**

**EFFECTS OF OESTRADIOL
ON BONE COLLAGEN METABOLISM**

An experimental study in female rats

By

Norvald | Langeland

1974

ACKNOWLEDGEMENTS

The present study was performed during the years 1970 - 1973. It was started in October 1970 when I was an assistant surgeon at Martina Hansens Hospital. From February 1971 to November 1973 I held a research fellowship from the Norwegian Research Council for Science and the Humanities. To these institutions I express my gratitude.

I am greatly indebted to my former chief, Dr. Bernhard Paus, Head of the Martina Hansens Hospital, who encouraged me to start this study, and later never failed in supporting and stimulating my work.

All experiments were carried out at the Institute for Surgical Research. I am very grateful to the Head of the Institute, Professor Egil Amundsen, for excellent working facilities, and especially for his skilled advice and constructive criticism.

From September 1971 I had excellent and skilful technical assistance from Miss Vigdis Teig. I am most grateful to her. Without her help this investigation would not have come to an end.

I thank Docent Lars Walløe and Cand. real. Sven-Oivind Wille for statistical advice, and the staff of the animal department for taking care of the laboratory animals. I also thank Miss Gerd Brøten at the Medical Library for valuable assistance, and Mrs. Liv Støttum for typing the manuscript.

To all my colleagues and friends at the Institute for Surgical Research I express my sincere thanks for fruitful discussions and kind advice.

Finally I wish to express my gratitude to my wife, Eldbjørg, for her support and to our children for their patience.

The study has been financially supported by grants from the Norwegian Council for Science and the Humanities, and from Dr. Alexander Malthe's Fund.

Oslo, November 1974

Norvald Langeland

FROM:
INSTITUTT FOR PATOLOGI, SEKSJON B
UNIVERSITETET I OSLO

HEAD:
PROFESSOR OLAV HILMAR IVERSEN

Tissue Specificity of the Epidermal Chalones

by
Ole Nome

OSLO 1974

STUDIES ON PENETRATION OF CHLORHEXIDINE
THROUGH THE ORAL MUCOSA IN GUINEA PIGS

by

Ellen Haugen

A THESIS

University of Oslo

1974

Institute of Neurophysiology
University of Oslo, Oslo, Norway

The Orienting Response Elicited by
Electrical Stimulation of the
Thalamus and the Brain Stem in Cats

*An Analysis of
Habituation Characteristics*

By
Knut Wester

Oslo 1974

**Studies on the Effect and Mode
of Action of Chlorhexidine
in Dental Plaque Inhibition**

by
Per Gjermo

A THESIS
UNIVERSITY OF OSLO
1974

Irradiated Guinea-Pig Gastric Mucosa

*Morphological and functional aspects
connected with the gastritis-cancer
problem*

BY
RENATO CAPOFERRO

Sponsored by
The Norwegian Cancer Society
(Landsforeningen mot Kreft, Oslo)

OSLO 1974

Institute of Pharmacology
University of Oslo

Adrenergic Receptors in the Rabbit Uterus

By

Britt-Ingjerd Nesheim

Oslo 1974

**Experimentally Induced Periapical
Inflammation in Permanent
and Primary Teeth of Monkeys**

by

Jakob Valderhaug

A THESIS
UNIVERSITY OF OSLO
1974

INSTITUTE OF PHARMACOLOGY,
UNIVERSITY OF OSLO

Effects of Some Drugs on Glucuronidation and Certain Cellular Transport Mechanisms

*With special reference
to the actions of
so-called membrane stabilizers*

By
ERIK DYBING

OSLO 1974

Department of Microbiology, Dental Faculty
University of Oslo

Repair of Mitomycin C Induced Damage in Mouse P-388 Cells

by
Jon Ørstavik

Oslo, 1974

INSTITUTE OF IMMUNOLOGY AND RHEUMATOLOGY, RIKSHOSPITALET
AND OSLO SANITETSFORENING UNIVERSITY HOSPITALS, OSLO, NORWAY

Studies on Human Amyloid Fibrils and Structurally Related Serum Proteins

By
GUNNAR HUSBY

OSLO 1974

FROM THE NORSK HYDRO'S INSTITUTE FOR CANCER RESEARCH,
THE NORWEGIAN RADIUM HOSPITAL, NORWAY.

^{131}I -Toluidine Blue: Use in Scintigraphic Localization of Enlarged Parathyroids

An Experimental and Clinical Study

By
ELDAR NORMANN

OSLO 1974

The Middle Ear Mucosa in the Guinea Pig

Barriers
Permeability to horseradish peroxidase

BY
ROLF HAYE

OSLO 1974

INSTITUTE OF PHARMACOLOGY,
UNIVERSITY OF OSLO

Effects of Ethanol on Rat Liver Metabolism with Special Reference to Protein Synthesis

By
JØRG MØRLAND

Oslo 1974

ACYL GROUP SPECIFICITY OF
CARNITINE ACYLTRANSFERASES

Identification of carnitine
medium-chain acyltransferase

By

HELGE ERIK SOLBERG

Oslo 1974

Institute of Clinical Biochemistry
University of Oslo
Rikshospitalet
Oslo 1, Norway

(head: professor Lorentz Eldjarn, M.D.)

DENTAL INSTITUTE OF EXPERIMENTAL RESEARCH
UNIVERSITY OF OSLO

**A Socio-Dental Study in
a Disadvantaged, Rural Population**

by
Leif Arne Heløe

A THESIS
UNIVERSITY OF OSLO
1974

Biologic Effects of Dental Restorative Materials

An *In Vitro* Study on
the Mechanism of Cytotoxicity of
Dental Amalgams and Silicate Cement

By
JAKOB LEIRSKAR

A Thesis
University of Oslo
1974

Studies on Human Immunoglobulin G Antigens and Anti-Immunoglobulin G Activities

BY
PER IVAR GAARDER

OSLO 1974

From: Medical Department B, Rikshospitalet, University Hospital, Oslo, Norway.

Evaluation of Vectorcardiographic Criteria in Different Kinds of Right Ventricular Overload

by
Knut Rasmussen

OSLO 1975

CSLU
1975
THE MEDICAL LIBRARY CENTER OF NEW YORK
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TUBULAR HYDRODYNAMICS AND RENAL AUTOREGULATION

by

PER LOMVIK AND MORTEN RÆDER

*Institute for Experimental Medical Research, University of Oslo,
Ullevål Hospital, Oslo.*

1975

The Role of Muscular Activity in the Regulation of some Muscular Properties

By

Rolf H. Westgaard

Oslo 1975

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Inclination of the Alveolar Processes in the Dog

*A Comparative
Morphological Study*

By
OLAF KROGSTAD

A THESIS
UNIVERSITY OF OSLO
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A Lymphographic Study of Patients with Carcinoma of the Uterine Cervix Stages I and II

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Alf Kolbenstvedt

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Oslo 1975

THE CAPILLARY PERMEABILITY OF THE RETE MIRABILE OF THE COMMON EEL

A study of the structure
and function of the vessels
of the rete with special reference
to its permeability properties
as compared
to those of the gill membrane.

By Sverre Stray-Pedersen
Institute of Physiology
University of Oslo
Karl Johans gate 47
Oslo 1, Norway

AS BRYNES FORLAG

OSLO

1975

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Tooth Surfaces in Pathologic Pockets

*A Stereomicroscopic and
Scanning Electron Microscopic Study*

By
Reinaldo Saglie

A Thesis
1975

Studies on Lipoprotein-X, the Abnormal Lipoprotein of Cholestasis

By
STÅLE RITLAND

OSLO 1975

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Intracranial Epidural Pressure Recording in Clinical Neurosurgery

By
HELGE NORNES

Oslo 1975

**Studies on
Human Lymphocyte Cytotoxicity
IN VITRO**

By
FINN WISLÖFF

*Medical Library Center
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**The Use of
Dynamic Models in the
Epidemiology of Tuberculosis**

by
Hans Th. Waaler

Oslo November 1975

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UNC Chapel Hill
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COPENHAGEN AND CHILDREN'S HOSPITAL, FUGLEBAKKEN, COPENHAGEN, DENMARK

Urinary Growth Hormone

*Determination and relationship to plasma growth hormone in insulin
treated diabetes mellitus, acromegaly and growth
retardation in children.*

By
KRISTIAN F. HANSSEN

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Et studium over faktorer som influerer
implantasjon, vekst og cellekinetikk i Walker 256
tumor på rotte og tumors innvirkning
på omliggende vev

av
Terje Brøyn

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Oslo 1975

Department of Microbiology, Dental Faculty
University of Oslo

STUDIES ON CELL ADHESION

by

Audun Attramadal

Oslo 1975

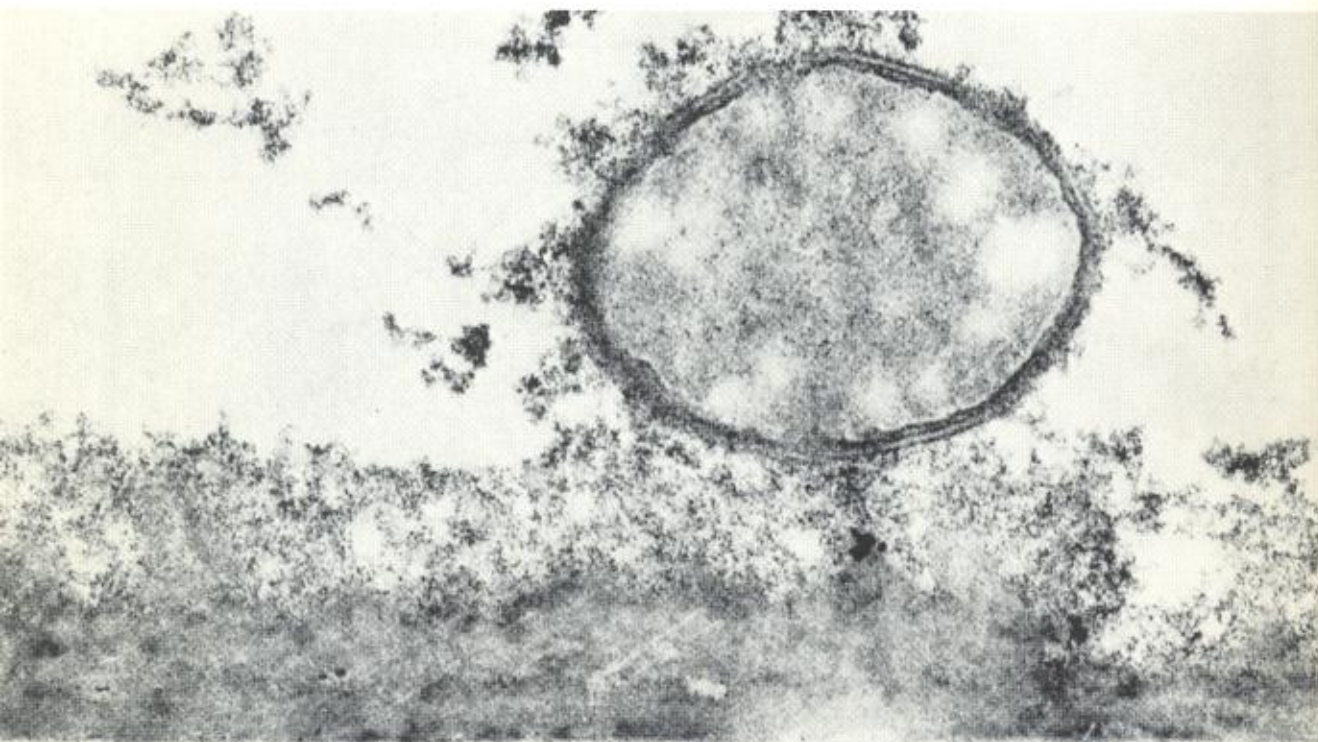
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Investigations of Some Salivary Glycoproteins and Their Possible Role in Pellicle Formation

THE MEDICAL LIBRARY CENTER OF NEW YORK
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by
Torleif Sønju



A THESIS
UNIVERSITY OF OSLO
1975

Institute of Medical Genetics, University of Oslo
Oslo, Norway

Genetic and Clinical Studies of Hyperlipoproteinaemia in Xanthomatosis Kindreds

By
Arvid Heiberg

Oslo 1975

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New York, N. Y. 10029

ASPECTS OF BILIRUBIN
METABOLISM
IN NORMAL AND
CHOLESTATIC DOGS

A. BERGAN

Institute for surgical research,
Rikshospitalet, Oslo

OSLO 1975

Laboratory of Molecular Anatomy, Anatomical Institute
University of Oslo, Oslo, Norway

Studies on Immunoglobulin M (IgM) on Lymphoid Cells and in Serum

By
TROND ESKELAND

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From the Institute of Neurophysiology, University of Oslo
and the Department of Oto-rhino-laryngology,
Ullevål hospital, Oslo, Norway

Excitation and inhibition in the upper part of the auditory nervous system

By

Björn Etholm

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The Complete Primary Structure of Allergen M from Cod

By
Said Elsayed

Oslo 1975

INSTITUTE OF PHARMACOLOGY,
UNIVERSITY OF OSLO

Cyclic AMP Metabolism in Rat Liver During Normal and Neoplastic Development

By
Thoralf Christoffersen

OSLO 1975

MEDICAL DEPARTMENT A, UNIVERSITY HOSPITAL,
RIKSHOSPITALET, OSLO, NORWAY

Plasma Cholesterol Esterification in Liver Disease

By
JAN PETTER BLOMHOFF

OSLO 1975

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Plasma Kallikrein, Coagulation, and Fibrinolysis

ASPECTS OF THE IN VITRO FUNCTIONAL INTERRELATIONSHIP
BETWEEN THE KALLIKREIN-KININ SYSTEM, THE FIBRINOLYTIC
SYSTEM, AND THE COAGULATION SYSTEM OF HUMAN PLASMA

By

KNUT LAAKE

Oslo 1975

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1975

Departments of Periodontics and Microbiology
Dental Faculty, University of Oslo

Permeability of Oral Mucosa to Macromolecules

In vivo and *in vitro* Penetration
of Dextran and Human Albumin

By
Kåre Tolo

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A Thesis
University of Oslo
1975

DEPARTMENT OF SURGERY, AKER HOSPITAL,
UNIVERSITY OF OSLO

Proximal Gastric Vagotomy

*Secretary and
histological studies*

By
MAGNE ROLAND

OSLO 1975

DEPARTMENT OF ANATOMY, DENTAL FACULTY,
UNIVERSITY OF OSLO

**Certain aspects of
CALCIUM METABOLISM
studied with morphological
and biochemical techniques**

by

Per Rasmussen

A THESIS
UNIVERSITY OF OSLO
1975

From The Institute of Neurophysiology
University of Oslo, Norway

Morphology and Physiology of Hagfish Muscle Fibres

By

Kåre Nicolaysen

Oslo 1975

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Studies on Fibrinogen and its Derivatives

*With Special Reference to
Complex Formation*

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BERNT LY

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PRE-YIELD DISLOCATION
BEHAVIOUR IN PURE ALUMINIUM

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BY

OTTO LOHNE

1975

the Solid State Group for advice and helpful discussions. Especially the hearty care and encouragement of B. Nøst has been of great help to me throughout these years. Financially the University of Oslo, SINTEF (The Foundation of Scientific and Industrial Research at the University of Trondheim) and NTNF (Royal Norwegian Council for Scientific and Industrial Research) are acknowledged.

Trondheim, August 1975.

Otto Lohne

ODONTOLOGISK INSTITUTT FOR EKSPERIMENTELL FORSKNING
OG KLINIKK FOR PERIODONTI
UNIVERSITETET I OSLO

Plaque og gingivitt hos skolebarn

av

Lars Jorkjend

UNIVERSITETET I OSLO
1975

Amipaque (Metrizamide)
A new Non-Ionic Water-Soluble
Contrast Medium for
the Subarachnoid Space

An Experimental Investigation in Animals

By

Sven-Inge Oftedal

Oslo 1975

ARMAUER HANSEN RESEARCH INSTITUTE (AHRJ)
ADDIS ABABA, ETHIOPIA
INSTITUTE FOR EXPERIMENTAL MEDICAL RESEARCH
UNIVERSITY OF OSLO, ULLEVAL HOSPITAL
OSLO, NORWAY

IMMUNE RESPONSES TO
MYCOBACTERIUM LEPRAE
IN MAN

BY
BJØRN MYRVANG

OSLO 1975

THE DEPARTMENT OF SURGERY, AKER HOSPITAL
AND THE INSTITUTE OF ZOOPHYSIOLOGY,
UNIVERSITY OF OSLO

Reactive Hyperaemia of the Lower Limb

Experimental and Clinical Studies

By
HANS O. MYHRE

OSLO 1975

INSTITUTE OF IMMUNOLOGY AND RHEUMATOLOGY,
RIKSHOSPITALET UNIVERSITY HOSPITAL, OSLO, NORWAY

Structural and Antigenic Studies on the Different Subclasses of Human Immunoglobulin G

By
TERJE EINAR MICHAELSEN

OSLO 1975

FROM THE NORSK HYDRO'S INSTITUTE FOR CANCER RESEARCH,
THE NORWEGIAN RADIUM HOSPITAL, OSLO, NORWAY

Macrophage-mediated Erythrocyte Lysis Studied in Vitro

By
HAAKON MELSOM

Oslo 1975

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Erythrophagocytosis in the Bone Marrow

A Morphologic Study

By

PER FREDERIK MARTON

OSLO 1975

From the Institute of Forensic Medicine
University of Oslo
Oslo, Norway

Genetic Studies on the GPT System of Human Red Cells

By

Bjørnar Olaisen

Oslo 1975

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Studies on Human Lymphocyte Activating Transplantation Antigens in Vitro

By

Henry Hirschberg

Oslo 1975

DICARBOXYLIC ACIDS IN DIABETIC AND STARVATION KETOSIS

by

JON ELLING PETERSEN

Oslo 1975

Institute of Clinical Biochemistry,
University of Oslo,
Rikshospitalet,
Oslo 1, Norway

(Head: Professor dr. med. Lorentz Eldjarn)

FROM: INSTITUTE FOR THROMBOSIS RESEARCH, UNIVERSITY OF OSLO,
SURGICAL DEPARTMENT B, UNIVERSITY HOSPITAL, RIKSHOSPITALET,
OSLO, AND INSTITUTE FOR SURGICAL RESEARCH, UNIVERSITY OF
OSLO, NORWAY

Blood Changes in Thromboembolic States and During Antithrombotic Treatment

By
JOHANNES STENGEL RØ

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**The Use of the HAR-600
Gingival Crevice Fluid Meter
in Clinical Research**

By

Nophadol Suppipat

A Thesis

University of Oslo

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Studies on the Determinants of Surface Enamel Fluoride and its Relationship to Dental Caries

by
Reidun Aasenden

A THESIS
UNIVERSITY OF OSLO
1976

Serum Gastrin Concentrations and Gastric Acid Secretion

*Studies on the Relation between
Fasting and Food-stimulated Serum
Gastrin Concentrations and
Pentagastrin-stimulated
Gastric Acid Secretion in Humans*

By
DAGFINN GEDDE-DAHL

Institute of Physiology
University of Oslo, Norway

ACTIVATION AND PROLIFERATION OF MURINE MACROPHAGES

BY
ÅSMUND REIKVAM

Oslo 1976