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CONTRACTIONS OF THE TYMPANIC MUSCLES IN MAN

An experimental study using observation
of changes in the acoustic impedance of an enclosed cavity
terminated by the tympanic membrane and
electromyography of the tympanic muscles

by

GISLE DJUPESLAND

UNIVERSITETSFORLAGET

OSLO
UNIVERSITETSFORLAGETS TRYKNINGSENTRAL

ARNE F. BAKKEN

BILIRUBINUTSKILLELSENS AKTIVERING HOS NYFØDTE

Barneklubnikken og Pediatrisk forskningsinstitut

Rikshospitalet

Universitetet i Oslo

og

Institut for medisinsk biokjemi

Universitetet i Oslo

FORORD

Dette arbeid er utført ved Barneklubben og Pediatrisk forskningsinstitutt, Rikshospitalet, i årene 1964-67. Vinteren 1966-67 ble de dyreeksperimentelle undersøkelser utført ved Institutt for medisinsk biokjemi, Universitetet i Oslo.

Spesiallege dr. med. Jørgen Fog har i denne tid vært min daglige inspirator. Hans stimulerende råd og veiledning har vært uvurderlig, både for min forståelse av biologi generelt og av bilirubinstoffskiftet spesielt.

Professor dr. med. Leif Salomonsen og dosent dr. med. Martin Seip takkes for at jeg fikk arbeidsplass ved Barneklubben og ved Pediatrisk forskningsinstitutt, og for gode råd. En takk rettes også til dosent dr. med. Sverre Halvorsen, spesiallege dr. med. Wilhelm Blystad og reservelege dr. med. Øystein Aagenæs for verdifull hjelp og veiledning.

Amanuensis Leif Skjelkvåle's omsorg med å skaffe nødvendige forbruksvarer gjorde arbeidet lettere, likeså den tekniske assistanse av fysiokjemikere Siri Bratlid og Gry Skår.

Professor dr. med. Otto Walaas takkes for gode råd og for at han stilte arbeidsplass til disposisjon ved Institutt for medisinsk biokjemi. Likeså takkes professor dr. med. Ernst Schjøtt-Rivers for stor imøtekommenhet.

De ansatte ved rutinelaboratoriet ved Barneklubben Rikshospitalet, ved legebiblioteket på Rikshospitalet og ved Universitetets fototekniske avdeling takkes alle for god hjelp.

Økonomisk støtte til undersøkelsene ble gitt av Norges almenvitenskapelige forskningsråd (stipend E 303-8), av Universitetet i Oslo og av dr. med. A. Malthes legat.

Aller viktigst var det at min kone, Grete, viste tålmodighet overfor bilirubinet, og at hun oppmuntret meg og bremsset meg i de rette øyeblikk.

Oslo, julen 1967.

Arne F. Bakken

From the Department of Microbiology, Dental Faculty, University of Oslo

IN VITRO CULTIVATION OF PAROTID TISSUE

with Special Reference to
the Production of Alpha-amylase

by

NILS JACOBSEN

Research Associate,
Department of Microbiology, Dental Faculty
University of Oslo

UNIVERSITETSFORLAGET

OSLO 1967

Oslo

1964-65

Thiaminundersøkelser

*Metoder til bestemmelse av thiamin,
utskillelsen i urinen og innholdet i blodet,
spesielt ved diabetes mellitus*

AV

H. N. HAUGEN

UNIVERSITETSFORLAGET

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Aas & Wahl, Oslo

*From the Pediatric Research Institute, Rikshospitalet, and the Neurophysiological Laboratory
at the Anatomical Institute, University of Oslo, Norway*

The Central Nervous System in Regulation of Erythropoiesis

BY
S. HALVORSEN

UNIVERSITETSFORLAGET

Preface

The first study in the present series of publications was the result of co-operation between Professor B. R. Kaada and Dr. P. Andersen, of the Neurophysiological Laboratory, and Dosent M. Seip and myself, of the Pediatric Research Institute, University of Oslo. The study was initiated by Dosent M. Seip, who for several years had been interested in the problem of erythropoiesis regulation. The subsequent studies have originated from questions raised during this and the following investigations, and are currently being continued.

The investigations have been carried out in 1958-65, during which time I have held an appointment partly at the Pediatric Department of the University Hospital, Oslo, and partly at the Pediatric Research Institute in the same hospital. Professor L. Salomonsen has provided me with facilities for carrying on with the studies during these years, and I am very grateful to him for this and for his stimulating interest in experimental and clinical research.

I am most grateful to Dosent M. Seip for his suggestions that I should start and continue studies in the field of erythropoiesis regulation, for his encouragement and criticism during the work, for his ad-

vice during the preparation of the manuscripts, and for his efforts and success in building up the Pediatric Research Institute.

Professor B. R. Kaada has given me excellent working facilities in the Neurophysiological Laboratory at the Anatomical Institute, and I am very grateful to him for this and for his very valuable criticism during preparation of the manuscripts. Drs. P. Andersen, J. Jansen, Y. Løyning, J. Setekleiv, and H. Ursin, at the Neurophysiological Laboratory, have further helped me with technical and theoretical problems, and I am most grateful to all of them. I am also indebted to Mrs. Melstrøm for valuable technical assistance.

Professor P. Owren at the Medical Department A, Rikshospitalet, and Professor S. Dick Henriksen at the Kaptein W. Wilhelmsen og Frues Institute of Bacteriology, Rikshospitalet, Oslo, provided me with laboratory facilities during the first years of the study, and I am most grateful for this help. I am also indebted to Dr. E. Myhre for his advice with the isotope techniques.

Technical assistant, Miss Helene Lassen, at the Pediatric Research Institute helped

From: Department of Physiology, Veterinary College of Norway, Oslo
Head until 1963: Professor H. Stormorken, M.D.
Present head: Docent K. Halse

Oslo University Institute of Pathological Anatomy
(Head: Professor O. Torgersen, M.D.)

Section for Electron Microscopy (Å. Kjørheim, M.D.) Rikshospitalet, Oslo, Norway

Platelet aggregation in vitro and in vivo

An Experimental Study
with Particular Reference to the Ultrastructural Aspects

BY
TORSTEIN HOVIC

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(*Factor VII*)

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HANS PRYDZ

1965

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

Radiation Chemical Studies
of *p*-Aminobenzoic Acid Derivatives
Radical Scavengers and Radioprotection

BY

KARL FORD NAKKEN

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1966

JAN 13 '67

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

Comparative effects of
cyclophosphamide and total body irradiation
on haemopoiesis in rats

BY
HERMAN HOST

UNIVERSITETSFORLAGET

Preface

The work reported was carried out at Norsk Hydro's Institute for Cancer Research, The Norwegian Radium Hospital, in the period 1961 to 1965.

I wish to express my gratitude to Director dr. med. R. Eker for the excellent working facilities made available to me at the Institute, and to my chief Professor dr. med. E. Poppe for permission to do the experimental work while I served at General Department.

I thank Actuary K. Magnus for his generous help with the statistical analysis and for discussion of the results.

My sincere thanks are due to Professor dr. med. A. Pihl who read the manuscripts and offered criticism and many valuable suggestions. I also wish to thank my friends dr. med. P. Kolstad and Docent S. Halvorsen for stimulating discussions and valuable advice during preparation of the manuscripts.

The help of cand. real. R. Jahren in performing the physical measurements and the technical assistance of Mrs. Ingrid Gulliksen are gratefully acknowledged.

It is a pleasure to acknowledge the financial support from The Norwegian Cancer Society and from the Norwegian Research Council for Science and the Humanities.

Finally, I want to express my deep gratitude to my wife for her great patience throughout these years, her never failing interest, and most valuable help during the work.

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Nervous Control of Urinary Bladder in Cats

BY
PER EDVARSEN

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FROM THE ANATOMICAL INSTITUTE, UNIVERSITY OF OSLO, NORWAY
HEAD: PROFESSOR FRED WALBERG, M.D.

Ultrastructure of Tropocollagen Macromolecules and Ordered Collagen Aggregates

BY
BJØRN REINO OLSEN

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Histamine Metabolism in Sheep

*An experimental study with
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to the fate of ingested histamine*

BY
Ø. V. SJAASTAD

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Dental Institute of Experimental Research, Dental Faculty
University of Oslo

IN VIVO
EXPERIMENTS ON HUMAN
DENTAL ENAMEL

by
Frithjof Ramm von der Fehr

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Aas & Wahl, Oslo, August 1967

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INSTITUTE OF PHYSIOLOGY, UNIVERSITY OF OSLO
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Inactivation of Plasma Kinins by Certain Microbes

With Special Reference to a Plasma
Kinin-inactivating Enzyme Produced
by *Pseudomonas Aeruginosa*

BY
HANS ERIK RUGSTAD

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From the Pediatric Research Institute, University Hospital, Oslo, Norway

STUDIES
ON ERYTHROPOIETIN

BY

PER HAAVARDSHOLM FINNE

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UNIVERSITY ENDOCRINOLOGICAL LABORATORY, MEDICAL DEPARTMENT B,
RIKSHOSPITALET, OSLO, NORWAY

PLASMA CORTICOSTEROIDS IN MICE

With special regard to the adrenal cortical
function in mice with spontaneous
adrenocortical lipid depletion

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JAN HEIBERG SOLEM

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*The Effect of Insulin and Puromycin
in the Rat Diaphragm*

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(Formerly Department of General Dental Research)
UNIVERSITY OF OSLO, NORWAY, AND
UNIVERSITY OF ALABAMA MEDICAL CENTER, U.S.A.

Studies of Normal and Experimentally Altered Human Coronal Dentine

Using Hardness Tests, Microradiography
and Various Staining Procedures

by
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A Calcium-binding Glycoprotein
from Human Saliva

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Studies on Plasma Kinin Formation

WITH SPECIAL REFERENCE TO THE PLASMA
SUBSTRATES FOR KININ-FORMING
ENZYMES

BY

STEN JACOBSEN

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AND THE UNIVERSITY INSTITUTE OF PATHOLOGICAL ANATOMY, RIKSHOSPITALET, OSLO,
NORWAY

RESECTION AND PARTIAL
BYPASS OF
THE SMALL INTESTINE

An experimental study in rats

BY
KNUT NYGAARD

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From the Department of Neurology (Head: S. Refsum, M. D.), University Hospital, Rikshospitalet, Oslo, and the Department of Physiology (Head: W. Velle, V. M. D., and Former Head: H. Stormorken, M. D., V. M. D.), Veterinary College of Norway, Oslo, Norway

Studies
on the Metabolism of Histamine
in Dystrophia Myotonica

By

OTTAR SJAASTAD

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Studies of Hypersensitivity to Fish

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KJELL AAS

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*From Kaptein W. Wilhelmsen og Frues Bakteriologiske Institutt
University of Oslo and Rikshospitalet, Oslo, Norway*

Auto-Immunity of the Thyroid

*On the Etiology and Effect of
Thyroglobulin Antibodies*

BY

TORE GODAL

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STUDIES ON PERIPHERAL
CIRCULATORY AND METABOLIC
CONSEQUENCES OF THYROTOXICOSIS

HARALD MARTIN MAARUD FREY

(INSTITUTE FOR EXPERIMENTAL MEDICAL RESEARCH, UNIVERSITY OF OSLO,
AND MEDICAL DEPARTMENT VII, ULLEVÅL HOSPITAL, OSLO, NORWAY)

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FROM THE INSTITUTE FOR THROMBOSIS RESEARCH, UNIVERSITY OF OSLO, OSLO, NORWAY,
THE DEPARTMENT OF MEDICAL CHEMISTRY, UNIVERSITY OF UMEÅ, UMEÅ, SWEDEN, AND
THE DEPARTMENT OF BIOCHEMISTRY, NOBEL MEDICAL INSTITUTE, STOCKHOLM, SWEDEN

Physico-chemical Studies on Mammalian Cytochrome c

*With special reference
to its peroxidatic activity and the occurrence of
multiple molecular forms (isocytochromes)*

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UNIVERSITY OF OSLO, OSLO, NORWAY (HEAD: PROFESSOR S. D. HENRIKSEN)

Moraxella and *Neisseria*.
Transformation, DNA Analysis
and Taxonomy

BY
KJELL BØVRE

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From Medical Department VIII, Ullevål Hospital, Oslo
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University of Oslo, Norway (Head: Professor Ragnar Nicolaysen)

The Effect of Plasma Cholesterol Lowering Diet in Male Survivors of Myocardial Infarction

A controlled clinical trial

BY

PAUL LEREN, M. D.



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WITH AN ENGLISH SUMMARY

AV ERIK ENGER



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Fra Ullevål sykehus, VII avdeling
Sjef: Professor dr. med. Einar M. Blegen.

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in the
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EINAR KRINGLEN M.D.

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(Head: Professor, Dr. Med. Kristen Arnesen) and from
Surgical Department II, Ullevål Hospital, Oslo
(Head: Professor, Dr. Med. Christian Bruusgaard)

Carcinoma of the Prostate

BY
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The Influence of Perfusate
Composition on Edema
Development in
Isolated Perfused Rabbit Lungs

*With special emphasis on the role
of the erythrocytes*

BY
PER KNUT M. LUNDE

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MEDICAL DEPARTMENT, COUNTY HOSPITAL, KRISTIANSUND, NORWAY
HEAD: PER R. GUNDERSEN

Coronary Heart Disease in Kristiansund 1959-61

Incidence, Prevalence, and
Mortality

*With a discussion of incidences indices
in coronary heart disease,
and a comparison with other investigations*

BY
PER R. GUNDERSEN

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Section: Medicine. E. 084-2, T.

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Fra: Histokjemisk laboratorium (S. D. Schultz-Haudt),
UNIVERSITETETS INSTITUTT FOR PATOLOGISK ANATOMI
(Sjef: Professor, dr. med. O. Torgersen)
Rikshospitalet, Oslo

STUDIER OVER INNVIRKNINGEN
AV ØSTRADIOL - 17 β
PÅ KONDROITINSULFAT B
I ROTTEHUD

AV
HÅKON NORDBØ

From: Histochemical laboratory,
Oslo University Institute of Pathological Anatomy,
Rikshospitalet,
Oslo, Norway.

OBSERVATIONS ON THE MAST CELLS
OF THE HUMAN GINGIVA
IN HEALTH AND INFLAMMATION

by

BJØRN U. ZACHRISSON

OSLO

1967

From Department of Microbiology, Dental Faculty,
University of Oslo.

CELL ADHESION

*The effect of some divalent cations on the adhesion
of P 388 cells to glass*

By

AUDUN ATTRAMADAL

JUN 6 '67

ACKNOWLEDGEMENTS

The studies presented in this thesis have been carried out at the Department of Microbiology, Dental Faculty, University of Oslo. I am greatly indebted to the head of the department, Professor Jon Jonsen, for his interest in my work, for his valuable advice and for his kindness in placing laboratory facilities at my disposal.

My genuine thanks are also due to the Committee for Post Gradual Education at the Dental Faculty, University of Oslo, for their guidance.

The presented studies emerge as a continuation of my work at the Histochemical laboratory, Institute of Pathological Anatomy, University of Oslo. I wish to express my sincere thanks to the head of the institute, Professor Olav Torgersen. Further, I am deeply grateful for the never-failing advice, suggestions and encouragement given by the head of the laboratory, Stig D. Schultz-Haudt, who also introduced me to the field of dental research.

Oslo, January 1967.

Audun Attramadal

OSLO

1967

From Department of Oral Surgery and Oral Medicine, and
Department of Anatomy, Dental Faculty, University of Oslo.

FIBROGENETIC FUNCTION OF SOME CELLS IN BLOOD CLOTS

An Experimental Study in Rats

by

Olav Hjortdal

Research Associate

Department of Oral Surgery and Oral Medicine,
Dental Faculty, University of Oslo.

ACKNOWLEDGEMENTS

The studies presented in this thesis have been carried out at the Department of Oral Surgery and Oral Medicine and at the Department of Anatomy, Dental Faculty, University of Oslo.

The experimental part of this work has been done in co-operation with Per Rasmussen. I am very grateful to him, his friendship, inventive mind, and good sense of humour have greatly facilitated the accomplishment of this work.

I wish to express my gratitude to Professor, Dr. Birger Nygaard-Østby, Head of the Dental Institute of Experimental Research, Oslo, for valuable suggestions and for formal and linguistic advice.

I am greatly indebted to Professor, Dr. Eigil Aas, Head of the Department of Oral Surgery and Oral Medicine, for encouraging discussions, and for giving me working opportunities that made this work possible.

I am further indebted to Associate Professor, Dr. Torvald Stokke, Head of the Department of Pathology, Dental Faculty, University of Oslo, for good advice, and for providing opportunity to get experimental animals from the Laboratory of the Norwegian Radium Hospital.

I am very grateful to Miss Åse-Brit Westvik and Mrs. Marthe Sand for skilful technical assistance.

The excellent and always kind assistance of the staff at the Dental Faculty Library is much appreciated.

Oslo, March 1967

Olav Hjortdal

From the Department of Periodontics
and Crown and Bridge, Dental Faculty,
University of Oslo, Norway.

HISTOCHEMICAL AND ELECTRON MICROSCOPIC STUDY OF
"EPITHELIAL RESTS OF MALASSEZ"

by

Jakob Valderhaug

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From the Department of Microbiology, Dental Faculty, University of Oslo

IN VITRO CULTIVATION OF PAROTID TISSUE

with Special Reference to
the Production of Alpha-amylase

by

NILS JACOBSEN

Research Associate,
Department of Microbiology, Dental Faculty
University of Oslo

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From: The University Institute of Pathological Anatomy
(Professor O. Torgersen), Surgical Department B (Professor B. Fretheim),
and Department of Radiology (Professor T. Dale),
Rikshospitalet, Oslo, Norway

Absorption from the Pericardial Cavity

An experimental study in rats

BY
TROND KLUGE

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FROM THE UNIVERSITY EYE DEPARTMENT, RIKSHOSPITALET, OSLO
HEAD: PROFESSOR THORE LIE THOMASSEN

OCULAR CONTUSION

A gonioscopic, tonometric, and tonographic study

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ASBJØRN M. TØNJUM

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Epidemiological Studies
of Bovine Tuberculous
Infection in Man

OSLO

BY
KNUT MAGNUS

UNIVERSITETSFORLAGET
1968

Oslo

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1968

Transfer of Signals through a Second Order Sensory Neuron

BY
LARS WALLØE

INSTITUTE OF PHYSIOLOGY
UNIVERSITY OF OSLO

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Regulation of Palmityl-CoA Synthetase Activity in Rat Liver

*The subcellular localization
of palmityl-CoA synthetase,
and the existence of an enzymatic
regulation of its activity*

BY
MIKAEL FARSTAD

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Interactions of Disulphides with Mitochondria

*Permeation, metabolic reduction,
and inhibitory effects*

BY
SVERRE SKREDE

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Epidemiological Studies
of Bovine Tuberculous
Infection in Man

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KNUT MAGNUS

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FROM THE INSTITUTE OF PHYSIOLOGY, UNIVERSITY OF OSLO,
NORWAY

Studies on
the Effect of Acute Hypoxia
on Pulmonary
Vascular
Resistance

By
Anton Hauge

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the Effect of Acute Hypoxia
on Pulmonary
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From Haematological Research Laboratory, Department IX
Ullevål University Hospital, Oslo, Norway
(Head: Professor Knut Aas)

SURVIVAL OF CR⁵¹-LABELLED HUMAN PLATELETS

Methodological and clinical studies

by

ARNE FOSS ABRAHAMSEN

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ADRENOCORTICAL
ULTRASTRUCTURE
in the
domestic fowl

PART I

Perfusion fixation and normal fine structure

PART II

Effects of inhibition and stimulation

BY

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UNIVERSITETSFORLAGET

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Fra: Universitetets Psykiatriske Klinikk, Oslo
Sjef: Professor L. Eitinger

og

Forsvarets sanitet, Oslo
Sjef: Generalmajor T.Dale

PSYKIATRISKE LIDELSER HOS UNGE NORSKE MENN
UNDER PLIKTIG MILITÆRTJENESTE I FRED

En sosialpsykiatrisk personlig etter-
undersøkelse av pasienter med kontroller

AV

ARNE SUND

PSYKIATRISKE LIDELSER HOS UNGE NORSKE MENN
UNDER PLIKTIG MILITÆRTJENESTE I FRED

Supplerende tabeller

Supplerende sykehistorier

AV

ARNE SUND

F O R O R D

Dette bind (kalt bind 2 i avhandlingen) inneholder de supplerende tabeller og sykehistorier det er henvist til i avhandlingen. Det bör derfor leses i sammenheng med avhandlingen, og det er ikke ment som et selvstendig bind. Innholdet må ikke refereres uten spesiell tillatelse.

Bindet vil være tilgjengelig hos forfatteren i form av denne stensil.

Oslo, juni 1968

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ENZYME HISTOCHEMICAL STUDIES

OF DENTAL ONTOGENY IN MICE

with Special Reference to Adenosinetriphosphatases

by

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