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The Uptake of Oestradiol  
in Normal Breast  
Tissue and in Induced  
Breast Cancer of the Rat

BY  
STEN SANDER

UNIVERSITETSFORLAGET

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# Methods for Blood Volume Determination

*A critical study in healthy subjects,  
surgical and burn patients*

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# Early Replacement Therapy in Human Burns

*Related to clinical factors, changes in blood volume,  
diuretic response, serum proteins,  
and electrolytes*

By

STEFFEN BIRKELAND M.D.

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ULLEVÅL HOSPITAL, DEPARTMENT OF PATHOLOGY  
UNIVERSITY OF OSLO, OSLO

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# The Spontaneous Adrenocortical Lipid Depletion in Mice

*Relation to Pituitary  
Gland and Gonads*

BY

KÅRE MOLNE

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# Studies on the Fibrinogen-Fibrin Conversion in Human Plasma

*Influence of  
antithrombins, colloids, and ions*

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BY  
ULRICH ABILDGAARD

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FROM THE NATIONAL BLOOD GROUP REFERENCE LABORATORY  
NATIONAL INSTITUTE OF PUBLIC HEALTH, OSLO, NORWAY

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Studies on the Pi System  
of Human Serum  
 $\alpha_1$  -antitrypsin

BY  
MAGNE K. FAGERHOL

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From the Division of Immunology (Head: M. Harboe),  
Institute for Experimental Medical Research, University of Oslo,  
Ullevål Hospital, Oslo, Norway

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# Studies on Naturally-occurring Antibodies against Modified Red Cells

*With special reference  
to the antibody causing reversible  
agglutination of  
trypsin-treated cells*

BY

OVE JOHAN MELLBYE

Fellow of the Norwegian Research Council  
for Science and the Humanities

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INSTITUTE FOR EXPERIMENTAL MEDICAL RESEARCH,  
UNIVERSITY OF OSLO, ULLEVAL SYKEHUS, OSLO, NORWAY)

# STUDIES ON INHIBITION OF GASTRIC SECRETION

WITH SPECIAL REFERENCE TO ACIDIFICATION OF THE  
GASTRIC ANTRUM AND THE INHIBITORY SUBSTANCE IN  
GASTRIC JUICE

BY

*LARS STENERSEN SEMB*

UNIVERSITETSFORLAGET

*Oslo - Bergen - Tromsø*

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FRA ODONTOLOGISK INSTITUTT FOR FYSIOLOGI OG BIOKJEMI,  
SJEF: PROFESSOR DR. MED. NICOLAY EEG-LARSEN, UNIVERSITETET I OSLO,  
OG FRA HISTOKJEMISK LABORATORIUM, INSTITUTT FOR PATOLOGISK  
ANATOMI, SJEF: PROFESSOR DR. MED. OLAV TORGersen,  
RIKSHOSPITALET, UNIVERSITETET I OSLO

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# Eksperimentelle studier over virkningen av østradiol-17 $\beta$ på innhold og metabolisme av kondroitinsulfat B i vev fra rotte

Av  
HÅKON NORDBØ

UNIVERSITETSFORLAGET



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The Uptake of Oestradiol  
in Normal Breast  
Tissue and in Induced  
Breast Cancer of the Rat

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STEN SANDER

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# Evaluation of Postischemic Blood Flow Changes by Volume Measurements

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GUNNAR STØREN

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Studies on the  
Phosphoglucomutase (PGM)  
Characters of  
Human Red Cells

BY  
EIRIK MONN

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From the Division of Immunology (Head: M. Harboe),  
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Ullevål Hospital, Oslo, Norway

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# Studies on Naturally-occurring Antibodies against Modified Red Cells

*With special reference  
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FROM THE INSTITUTE OF CLINICAL BIOCHEMISTRY, UNIVERSITY OF OSLO,  
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HEAD: PROFESSOR DR. MED. LORENTZ ELDJARN

---

Biochemical and Dietary  
Studies  
in Refsum's Disease  
(Heredopathia Atactica  
Polyneuritiformis)

BY

KENNETH TRY  
AND  
ODDVAR STOKKE

UNIVERSITETSFORLAGET

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*From Division of Immunology, Institute for Experimental Medical Research,  
University of Oslo,  
and  
Blood Bank and Department of Immunohaematology, Ullevål Hospital, Oslo, Norway*

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# Leucocyte Antigens and Antibodies in Man

by  
ERIK THORSBY

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Effects of Arterial Hypertension  
and Chronic Dilatation of  
Receptor Area on Aortic  
Baroreceptor Activity

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Studies on the  
Fibrinogen-Fibrin Conversion  
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*Influence of  
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BY  
ULRICH ABILDGAARD

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# ACYLCARNITINES

*Identification of propionylcarnitine  
The variations of  
acylcarnitines in different  
nutritional states*

BY  
THOMAS BØHMER

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

Immune Response in Rabbits  
to a Conjugate of Synthetic Bradykinin  
and Polyglutamic Acid

by  
Jostein Sølna



#### ACKNOWLEDGEMENT

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Oslo, April 1969

Jostein Sølna

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by

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# THE AMINO ACID POOL OF MAMMALIAN CELLS

by

TORLEIF SÖNJU

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

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UNIVERSITETET I OSLO

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En vurdering av filtrerpapirmetoden  
ved in vitro forsøk

Av

JAKOB LEIRSKAR

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1969

From the Department of Anatomy and Dental Institute of  
Experimental Research, Dental Faculty,  
University of Oslo, Norway.

PULP AND DENTINE REACTIONS TO  
EXPERIMENTAL TOOTH  
INTRUSION

by

Arild Stenvik  
Cand. odont.

A THESIS

Submitted in partial fulfillment of the requirements for  
the degree of Licentiatus Odontologiae at the Dental Faculty,  
University of Oslo.

From Institutt for Generell og Eksperimentell Patologi  
Universitetet i Oslo, Rikshospitalet, Oslo 1. Head: Olav Hilmar Iversen

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# Studies of Respiration and Glycolysis of Epidermal Cells in Relation to Early Skin Carcinogenesis

*An Investigation of the Effects of Benzene, Methylcholanthrene and Cantharidin on Some Metabolic Parameters (Oxygen Consumption with and without Glucose, Aerobic and Anaerobic Lactic Acid Production, Crabtree and Pasteur Effects) in the Epidermis of Hairless Mice. Correlation between These Parameters, and Cell Damage and Alteration in Cell Population Kinetics*

BY  
OLE DIDRIK LÆRUM

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# Human Secretory Immunoglobulins

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Studies on Selective Uptake and  
Metabolism of Testosterone-<sup>3</sup>H in the  
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Per Brandtzaeg

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ASBJØRN AAKVAAG



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Clinical Evaluation of the  
Bicarbonate Response to an  
Intravenous Injection of Pure Natural  
Secretin and the  
Relationship to the  
Gastric Acid Secretion

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Hermod Petersen

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Recirculating  
and Non-recirculating  
Lymphocytes in the Rat

By  
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Aspects of  
Host Defence Reactions during  
Experimental Intestinal  
Strangulation Obstruction in Rats

By

ARNE TRIPPESTAD

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TANNLEGER I  
TREKVART ÅRHUNDRE

NORSK ODONTOLOGI  
1800 - 1875

AV  
KAI HUNSTADBRÅTEN

CASPERSENS TRYKKERI  
VIKERSUND



## FORORD

Hensikten med det foreliggende arbeid har vært å gi en samlet fremstilling av tannbehandlingen i Norge i perioden 1800–1875 på grunnlag av de kilder som har stått til disposisjon. De biografiske opplysninger stammer i alt vesentlig fra trykte kilder – bøker, tidsskrifter og aviser. Det samme er for en stor del tilfelle med opplysninger om tannbehandlingen, men det meste av dette er hentet fra medisinalberetninger i Riksarkivet. I alt har jeg funnet 114 slike beretninger fra 22 norske tannleger i tiden 1864–1874. Det er derfor tannlegenes arbeidsforhold i dette tidsrom som er best belyst, og hovedvekten i fremstillingen er naturlig nok lagt på dette tiåret.

Jeg vil få takke dekanus ved Det odontologiske fakultet, professor, dr. med. Jon Jonsen, for hans store interesse for arbeidet.

Likeså vil jeg få takke den rådgivende komité, oppnevnt av Det odontologiske fakultet, for verdifull hjelp og bistand.

For bidrag til trykning vil jeg få takke Det odontologiske fakultet, og for bidrag til dekning av utgifter i forbindelse med innsamling av materialet vil jeg få takke styret for Den norske tannlægeforenings fond til odontologiens fremme.

Amot på Modum, i februar 1970

*Kai Hunstadbråten.*

THE ANATOMICAL INSTITUTE, UNIVERSITY OF OSLO, NORWAY  
CHIEF: PROFESSOR JOHAN TORGENSEN M.D.  
THE SURGICAL DEPARTMENT B, RIKSHOSPITALET, OSLO, NORWAY  
CHIEF: PROFESSOR BJARNE FRETHEIM M.D.

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# The Human Lumbo-sacral Vertebral Column

*An Osteometric Study*

By  
PER GUNNAR SAND

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HEAD: PROFESSOR KNUT AAS, M. D., UNIVERSITY OF OSLO  
ULLEVÅL HOSPITAL, DEPARTMENT OF MICROBIOLOGY  
HEAD: L. O. BØRGEN, M. D.

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# Microcirculatory Thrombosis

*Clinical and Experimental Studies  
with Special Reference to  
the Occurrence of  
Hyaline Microthrombi*

By  
FREDRIK SKJØRTEN

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STUDIES ON  $^{51}\text{Cr}$ -EDTA  
and Its Evaluation as a  
Reference Substance in  
Gastro-Intestinal Research

By  
PER LÖKKEN

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MEDICAL DEPARTMENT B, RIKSHOSPITALET  
HEAD: PROFESSOR DR.MED. OLE STORSTEIN

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# The Importance of Cineangiography in the Hemodynamic Study of Aortic Valvular Disease

By  
HARALD EIE

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Section: Medicine. E30.51-1T.

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# KLINISKE LEVERPRØVER HOS DRØVTYGGERE

Av  
MAGNE AAS HANSEN  
With an English Summary

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DEN PULMONALE GASSUTVEKSLING  
I HVILE OG VED MODERAT  
ARBEIDSBELASTNING HOS  
NORMALPERSONER OG PASIENTER  
MED LUNGESYKDOMMER

Av

*J. R. Vale*

## F O R O R D

Dette arbeid er utført i årene 1965 - 1969 ved Rikshospitalets Lungeavdeling. Jeg er avdelingens overlege, professor dr. med. Trygve Wessel-Aas, megen takk skyldig for mine gode arbeidsvilkår, for de laboratoriemessige ressurser og for den interesse han på alle måter har vist for mitt arbeid. Jeg vil også takke avdelingens tidligere sjef, professor dr. med. Sven Nissen-Meyer, for hans opprinnelige forslag om studier av lungenes gassutveksling under arbeidsbelastning, og ikke minst for hans insitament til å søke statistisk kunnskap. Videre vil jeg takke kolleger, sykepleiere og personale forøvrig ved Lungeavdelingen for all hjelp og velvilje. En spesiell takk vil jeg rette til søster Kirsten Ulmo for tålmodig bistand ved arteriekateterisering, til søster Ingeborg Bratås og laboratorietekniker Ragnhild Simonsen for samvittighetsfullt analysearbeid, samt til fru Gunvor Jahnsen og fru Wenche Christensen for tallrike omskrivninger av manuskripter. Jeg vil også takke kolleger, og særlig professor dr. med. Bjarne Waaler og spesiallege dr. med. Harald Refsum for kritisk gjennomlesning av deler av manuskriptet.

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Oslo, november 1970

J.R. Vale

# EPIDERMOLYSIS BULLOSA

A clinical, genetic  
and epidemiological study

BY

TOBIAS GEDDE-DAHL Jr.



UNIVERSITETSFORLAGET  
OSLO-BERGEN-TROMSÖ

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1970

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

PURIFICATION AND AMINO ACID COMPOSITION OF HUMAN SALIVARY  
ALPHA-AMYLASE

BY

Arne Hensten Pettersen

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

## ACKNOWLEDGEMENTS

The present studies were carried out at the Department of Microbiology, Dental Faculty, University of Oslo.

I wish to express my sincere thanks to the Head of the Department, Professor Jon Jonsen, M.D., for his suggestions and advice, and his active interest and guidance during this work.

I further appreciate the friendly assistance of the staff of the Dental Faculty Library and of the technical staff of the Department of Microbiology. My thanks are also due to the Electromicroscopical Unit for Biological Sciences, University of Oslo.

During this work I have been a research associate of the Norwegian Council for Science and Humanities (Norges Almenvitenskapelige Forskningsråd) and of the University of Oslo.

Oslo, August 1970

Arne Hensten Pettersen.

From the Department of Periodontology, Dental Faculty, University of Oslo and the Department  
of Periodontology, School of Dentistry, University of Alabama in Birmingham

---

A SURVEY IN NORWAY FOR CAUSES  
OF LOSS OF PERMANENT TEETH AND THE NUMBER  
OF TEETH REMAINING AFTER EXTRACTION

by

Jan R. Johansen

### Acknowledgements

The material for this study was made available by the cooperation of the Norwegian Dental Association and its members. I want to express my gratitude to all dentists participating in the survey for taking the burden of filling out the questionnaires during busy working hours. To Dr. Eivind Karlsen, Secretary of the Norwegian Dental Association and his staff, I am obliged for their help in distributing and collecting the forms.

My sincere thanks are due to Dr. J.F. Volker, President of the University of Alabama in Birmingham and to Dr. Charles A. McCallum, Jr., Dean of the School of Dentistry, University of Alabama in Birmingham for excellent working facilities during the preparation of this paper. I have been privileged to receive both their interest and financial support. Dr. David Hurst, Chairman, Department of Biostatistics, University of Alabama and his staff have performed the detailed statistical analyses. I am specially indebted to him for our inspiring discussions about the lay-out of the statistical design and the interpretation of the results.

During my stay at the University of Alabama I had the pleasure to be attached to the Department of Periodontology. I want to express my deep gratitude to Dr. Wallace V. Mann, Chairman of the department, for his continued interest in this paper and for our rewarding discussions of problems of mutual interest.

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Oslo, in June 1970

Jan R. Johansen