

# Acta Anatomica

Vol. 123, 1985

International Archives of Anatomy, Histology, Embryology and Cytology  
Archives Internationales d'Anatomie, d'Histologie, d'Embryologie et de Cytologie  
Internationales Archiv für Anatomie, Histologie, Embryologie und Zellforschung

Founded 1945 by R. Chambers, G. Glimstedt, T. Peterfi and G. Wolf-Heidegger  
Continued 1962-1974 by E.A. Boyden, 1955-1980 by A. Delmas,  
1972-1980 by F. Walberg, 1945-1980 by G. Wolf-Heidegger

**Editors-in-Chief**

W. Lierse, Hamburg  
R. O'Rahilly, Davis, Calif.

**Honorary Editor**

G. Wolf-Heidegger, Basel

**Editorial Board**

F. Beck, Leicester  
N. Björkman, Copenhagen  
F. Bojsen-Möller, Copenhagen  
O. Bucher, Lausanne  
A. Delmas, Paris  
H. Kern, Marburg  
J.G. Koritké, Strasbourg  
K.S. Ludwig, Basel  
H. Moe, Copenhagen  
W. Platzer, Innsbruck  
Y. Sano, Kyoto  
R.K. Schenk, Bern  
H.G. Schwarzacher, Wien  
J. Staubesand, Freiburg i.Br.  
H. Tuchmann-Duplessis, Paris  
E. van der Zypen, Bern

**Advisory Board**

R. Amprino, Bari  
G. Boehm, Basel  
B.D. Chaurasia, Gwalior  
E. Klika, Prag  
R. Milinc, Novi Sad  
R. Shehata, Cairo  
D. Starck, Frankfurt/Main  
J. Steffensen, Reykjavik  
G.H. Vázquez-Nin, México

**Editorial Board for America**

A.R. Burdi, Ann Arbor, Mich.  
L.J.A. DiDio, Toledo, Ohio  
D.B. Meyer, Detroit, Mich.  
T.M. Oelrich, Ann Arbor, Mich.

S. Karger · Medical and Scientific Publishers · Basel · München · Paris · London · New York · New Delhi · Singapore · Tokyo · Sydney

---

#### Drug Dosage

The authors and the publisher have exerted every effort to ensure that drug selection and dosage set forth in this text are in accord with current recommendations and practice at the time of publication. However, in view of ongoing research, changes in government regulations, and the constant flow of information relating to drug therapy and drug reactions, the reader is urged to check the package insert for each drug for any change in indications and dosage and for added warnings and precautions. This is particularly important when the recommended agent is a new and/or infrequently employed drug.

#### All rights reserved.

No part of this publication may be translated into other languages, reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying, recording, microcopying, or by any information storage and retrieval system, without permission in writing from the publisher or, in the case of photocopying, direct payment of a specified fee to the Copyright Clearance Center (see "Information for Readers and Subscribers").

© Copyright 1985 by S. Karger AG, P.O. Box, CH-4009 Basel (Switzerland)  
Printed in Switzerland by Basler Druck- und Verlagsanstalt, Basel

## No. 1

Terminals of Intralaminar Thalamic Neurons in the Pallidum externum of <i>Saimiri sciureus</i> Lee, B.H.; Hassler, R.G.; Chung, Y.W.; Hasegawa, Y.; Nitsch, F.M. . . . .	1
An Investigation of Potential Vascular Connections between the Kidney and the Adrenal Gland Horacek, M.J.; Earle, A.M.; Gilmore, J.P. . . . .	9
Ultrastructure of Secretory Ameloblasts in Puppies Kindaichi, K.; Kagayama, M.; Akita, H. . . . .	14
Variations in the Method of the Division of the Hypoglossal Canal in Siense Skulls of Known Age and Sex Bastianini, A.; Guidotti, A.; Hauser, G.; De Stefano, G.F. . . . .	21
Effect of Estrogen on the Affinity of Malachite Green for Staining Cardiac Lipid Inclusions in Mice Gould, S.F.; Bernstein, M.H. . . . .	25
Functional Aspects of Ano-Rectal Vascularity Foster, M.E.; Lancaster, J.F.; Leaper, D.J. . . . .	30
Photic Responses of the Retina at Different Ages. A Comparative Study Using Histochemical and Biochemical Methods Yew, D.T.; Tsang, D.S.C.; Chan, Y.W. . . . .	34
Evaluation of Cranial Bone Suture Autotransplants in the Growing Rabbit Nash, S.B.; Kokich, V.G. . . . .	39
A Morphological Comparison of Aortic Elastin from Five Species as Seen with the Scanning Electron Microscope Song, S.H.; Roach, M.R. . . . .	45
Distribution of the Secondary Vestibular Fibers in the Cerebellar Cortex. An Autoradiographic Study in the Cat Magras, I.N.; Voogd, J. . . . .	51
Metabolism of Coronary Vasculature in Euthyroid, Hyperthyroid and Recovering Hyperthyroid Rats: A Histochemical Study Cannon, M.S.; Gelderd, J.B.; Kapes, E.D.; Wagner, J.W. . . . .	58
A Modified Silver Method for Staining Developing Nervous Tissue in Culture Spoerri, P.E.; Ludwig, H.C.; Ogawa, Y. . . . .	64
Cell Types of the Pars of the Hedgehog ( <i>Erinaceus europaeus</i> L.) Adenohypophysis: Immunocytochemical and Ultrastructural Studies. 3. Opiocorticomelanotropic Cells Girod, C.; Lh�eritier, M.; Trouillas, J.; Dubois, M.P. . . . .	67
Blood Vessel Size of Circulus arteriosus cerebri (Circle of Willis): A Statistical Research on 100 Human Subjects Orlandini, G.E.; Ruggiero, C.; Zecchi Orlandini, S.; Gulisano, M. . . . .	72

## No. 2

Ultrastructural of the Neural Basal Lamina in Loop-Tail Mice Wilson, D.B. . . . .	77
Study of Arterial Patterns of the Hand in Primates. Deep Palmar Arterial Arches and Their Correlating Arteries in <i>Macaca fuscata</i> Ugawa, A.; Ikeda, A. . . . .	82
Embryonal Hypermobility and Articular Development Ruano-Gil, D.; Nardi-Villardaga, J.; Teixidor-Joh�, A. . . . .	90
The Epithelium of Uterine Biopsies from Cyclic Dairy Cattle: Ultrastructure and Endocytotic Activity Hyttel, P. . . . .	93
Architecture of the Human Gastrocnemius Muscle and Some Functional Consequences Huijing, P.A. . . . .	101
Anatomische Unterscheidung und klinische Bedeutung zweier verschiedener Anteile des Musculus vastus medialis Scharf, W.; Weinstabl, R.; Orthner, E. . . . .	108
Structures Passing through the Triangular Space of the Human Upper Limb Wasfi, F.A.; Ullah, M. . . . .	112
A Scanning Electron Microscopic Study of the Dorsal Surface of the Human Tongue Kullaa-Mikkonen, A.; Sorvari, T.E. . . . .	114
Embolien beim Embryo Schneider, M.; Rickenbacher, J. . . . .	121
Differential Distribution of Immunohistochemically Detected Keratin Proteins in Mammalian Oral Epithelia Hosaka, M.; Murase, N.; Fukui, S.; Mori, M. . . . .	125
Epithelial Kinetics Affect Langerhans' Cells of Mouse Vagina Epithelium Young, W.G. . . . .	131

No. 3	No. 4
Differentiation of Blood Vessels in the Adipose Tissue of Lean and Obese Fetal Pigs. Studied by Differential Enzyme Histochemistry	Craniofacial Growth in Patients with Craniosynostosis
Hausman, G.J.; Thomas, G.B. . . . . 137	Lavelle, Ch.L.B. . . . . 201
Comparison of the Effects of Barbiturate and Ethanol Given to Neonates on the Cerebellar Morphology	Immunohistochemical Studies of the Serotonergic Supracerebellar Plexus in the Mammalian Ventricular System, with Special Reference to the Characteristic Reticular Ramification
Yanai, J.; Waknin, S. . . . . 145	Matsuura, T.; Takeuchi, Y.; Kojima, M.; Ueda, S.; Yamada, H.; Nojyo, Y.; Ushijima, K.; Sano, Y. . . . . 207
Development of Otoconia in the Embryonic Chick ( <i>Gallus domesticus</i> )	Methylene Blue and Organised Differentiation in the Chick Embryo (with 1 colour plate)
Fermin, C.D.; Igarashi, M. . . . . 148	Iyengar, B.; Lal, S.K. . . . . 220
Morphometry of Monocytes of Human Blood	Myelination in the Chorda Tympani of the Postnatal Rat: A Quantitative Electron Microscope Study
Sokol, R.J.; James, N.T.; Wales, J.; Hudson, G. . . . . 153	Ferrell, F.; Tsuetaki, T.; Chole, R.A. . . . . 224
Placentation in the Opossum, <i>Didelphis virginiana</i>	Structural Study on the Effect of 24,25-Dihydroxyvitamin D <sub>3</sub> on Epiphyseal Growth Plate in Suckling Mice
Krause, W.J.; Cutts, J.H. . . . . 155	Mirsky, N.; Silbermann, M. . . . . 230
Ultrastructure of the Rat Pineal Stalk	A New Method in Computer-Assisted Imaging in Neuroanatomy
Calvo, J.; Boya, J. . . . . 172	Keyserlingk, D. Graf von; Niemann, K.; Wasel, J.; Reinold, J.; Poeck, K. . . . . 240
Structural Changes in Rat Hepatocytes following Ingestion of Sugar Solutions	Effects of Serum, Fibroblast Growth Factor, and Platelet-Derived Growth Factor on Explants of Rat Tail Tendon: A Morphological Study
Gottschall, E.G.; McMillan, D.B. . . . . 178	Stein, L.E. . . . . 247
Morphometric Study of the Mandibular Condyle of the Rat during Postnatal Development	Influence of Fixative on the Fine Structure of Mouse Odontoblasts: A Study on Undemineralized Tissue
Campos, M.N.M.; Cruz, A.R. . . . . 189	Andujar, M.B.; Magloire, H.; Couble, M.-L.; Calle, A.; Joffre, A. . . . . 253
Mitotic Activity and Its 24-Hour Rhythm in the Ovarian Follicles during the Estrous Cycle of a Wild Rat, <i>Bandicota bengalensis</i>	Author Index . . . . . 259
Sahu, A. . . . . 195	Subject Index . . . . . 260