Contents, Vol. 18, 1981

Founded 1964 as ‘Angiologica’ by M. Comè and L. Laszt
Main Editor:
John A. Bevan, Los Angeles, Calif.
Associate Editor:
R.A. Maxwell,
Research Triangle Park, N.C.
Field Editors:
Editorial Board:
M.J. Antonaccio, Princeton, N.J.
C.H. Baker, Tampa, Fla.
D.F. Bohr, Ann Arbor, Mich.
M.J. Brody, Iowa City, Iowa
G. Burnstock, London
R. Casteels, Leuven
R.S. Cotran, Boston, Mass.
S. Ebashi, Tokyo
M. Endo, Sendai
E.O. Feigl, Seattle, Wash.
B. Folkow, Göteborg
S.M. Friedman, Vancouver
M. Fujiwara, Kyoto
R.F. Furchgott, Brooklyn, N.Y.
G. Haemser, Basel
W. Halpern, Burlington, Vt.
D.J. Hartshorne, Tucson, Ariz.
H. Henrich, Würzburg
K. Hermsmeyer, Iowa City, Iowa
J.D. Jamieson, New Haven, Conn.
P.C. Johnson, Tucson, Ariz.
S. Kalsner, Ottawa
W.R. Keatinge, London
Contents Vol. 18, 1981
No. 1-2

Research Papers

The Influence of Concurrently Administered Theophylline, Ouabain and Hypocapnia on Coronary Flow
Merrill, G.F.; Young, M.A 1

Vasodilatation Augments the Blood-Brain Barrier Lesions Induced by an Acute Rise in Intracarotid Pressure
Hardebo, J.E 9

Receptors for 5-Hydroxytryptamine in Rabbit Isolated Ear Artery and Aorta
Purdy, R.E.; Hurlbut, D.E.; Rains, L.A 16

Inhibitors of Mitochondrial Ca++ Uptake Dissociate Potassium-Induced Tension Responses from Increased 45Ca Retention in Rabbit Aortic Smooth Muscle
Karaki, H.; Weiss, G.B 28

Effect of Transmembrane pH Gradient Changes on Potassium-Induced Relaxation in Vascular Smooth Muscle
Karaki, H.; Weiss, G.B 36

Influence of Locally Altered in vivo Shear Stress on Aortic Histamine-Forming Capacity and Aortic Albumin Uptake
Markle, R.A.; Hollis, T.M 45

Exercise Hyperemia in the Absence of a Tissue PO2 Decrease
Proctor, K.G.; Bohlen, H.G 58

Cellophane Perinephritic Hypertension in the Dog: Some Biochemical, Hemodynamic and Pathological Characteristics
Castro-Tavares, J.; Garrett, J.; Gonçalves, V 67
Contractility and the Length-Tension Relation of the dog Anterior Tibial Artery
Price, J.M.; Davis, D.L

Research Papers
Neuroeffector Function of Isolated Portal Vein from Spontaneously Hypertensive and Wistar Kyoto Rats:
Dependence on External Calcium Concentration
Pegram, B.L.; Ljung, B

Uptake and Metabolism of Noradrenaline by Blood Vessels of Perinephritic Hypertensive Dogs
Garrett, J.; Castro-Tavares, J.; Branco, D

Ultrastructural Changes in Blood Vessels of Perinephritic Hypertensive Dogs
Azevedo, I.; Castro-Tavares, J.; Garrett, J

Contents

Differential Effects of D 600 on Contractile Response of Aorta and Portal Vein from Spontaneously Hypertensive Rats
Pang, C.C.Y.; Sutter, M.C

Angiotensin I Conversion by the Microcirculation of the Nonhuman Primate
Cornish, K.G.; Gilmore, J.P

Brief Communications
In vitro Model of Maintained Myogenic Vascular Tone
Winquist, R.J.; Bevan, J.A

Nadasy, G.L.; Monos, E.; Mohacsi, E.; Csepli, J.; Kovach, A.G.B

Announcement

Research Papers
Alpha-Adrenoreceptor-Related Dissociation Constants and Intrinsic Efficacies of Stereoisomers of Epinephrine
Young Kim, M.; Salman, K.; Paul, P.N

Effects of Reserpinization, Surgical Denervation and in vitro Chemical Denervation with 6-Hydroxydopamine on the Contractile Response of Isolated Rabbit Ear Artery to Propranolol
Purdy, R.E.; Ashbrook, D.W.; Hurlbut, D.E.; Reidy, J.P.; Stratford, R.E.; Watanabe, M.Y. ...

Influence of Sex Difference and Oral Contraceptives on Forearm Reactive Hyperemia
Clinton Webb, R.; Risch, N.J.; Vanhoutte, P.M

Isolation of Plasma Membranes from Rat Mesenteric Veins: A Comparison of Their Physical and Biochemical Properties with Arterial Membranes

Intramедial Renal Arterial Nerves
Knight, D.S.; Bazer, G.T.; Feigen, L.P.; Kadowitz, P.J

Bepridil (CERM-1978) and Verapamil Depression of Contractions of Rabbit Aortic Rings
Mras, S.; Sperelakis, N
Abstracts


Research Papers

Functional and Morphological Properties of Human Omental Resistance Vessels
Aalkjær, C; Mulvany, MJ

Contents

Flow-Pressure Relationships in Newborn and Infant Spontaneously Hypertensive Rats
Karr-Dullien, V.; Bloomquist, E.I.; Beringer, T.; El-Bermani, A.-W.

Arterial Morphometry in Neonatal and Infant Spontaneously Hypertensive Rats
Karr-Dullien, V.; Bloomquist, E.I.; Beringer, T.; El-Bermani, A.-W.

Angiotensin Induction of Active Responses in Cultured Reaggregates of Rat Aortic Smooth Muscle
Zelcer, E.; Sperelakis, N

Effect of Moderate Cooling on Adrenergic Neuroeffector Interaction in Canine Cutaneous Veins
Janssens, W.J.; Verbeuren, T.J.; Vanhoutte, P.M

Comparative Morphologic and Histochemical Studies on the Collagen of Vertebrate Arteries
Carrasco, F.H.; Montes, G.S.; Krisztán, R.M.; Shigihara, K.M.; Cameiro, J.; Junqueira, L.C.U.

296 Relaxation of Isolated Middle Cerebral Artery Induced by Diazoxide
Estrada, C; Conde, M.V.; Balfagón, G.; Gómez, B.; Lluch, S

The Nature of Cerebral Vasospasm
Mchedlishvili, G

A Comparative Study of the Relaxing Effect of Nitroprusside and Verapamil on Human Umbilical Vessels
Ozaki, H.; Shibata, S.; Kitano, H.; Matsumoto, P.; Ishida, Y

Brief Communication

Are Fibroblasts Adrenergically Innervated Cells?
Azevedo, I.; Soares-da-Silva, P

Author Index

Subject Index

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.

S. Karger AG, P.O. Box, CH-4009 Basel (Switzerland) Printed in Switzerland by Thüer AG Offsetdruck, Pratteln

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.