

Contents

Preface: *Wolf, G.*

Basic Functions of the Renin-Angiotensin System

Intrarenal Formation of Angiotensin II:

Navar, L.G.; Wishiyama, A.

Signal Transduction Pathways of Angiotensin II in the Kidney: *Bernstein, K.E. et al.*

Hemodynamic Effects of Angiotensin II in the Kidney: *Toke, A.; Meyer, T.W.*

Angiotensin II as a Mediator of Renal Tubular Transport: *Kennedy, C.R.J.; Burns, K.D.*

Angiotensin IV and Renal Diseases: *Gesualdo, L. et al.*

Transgenic Mice as a Tool to Study the Renin-Angiotensin System: *Tharaux, P.-L.; Coffman, T.M.*

Angiotensin II in Renal Growth and Development

Angiotensin II as a Renal Growth Factor: *Wolf, G.*

Guarding the Kidney Architecture: Newly Recognized Physiological Role of Angiotensin: *Ichikawa, I.; Miyzaki, Y.*

Proinflammatory Actions of Angiotensin II

Renin-Angiotensin System and Renal Damage: Emerging Data on Angiotensin II as a Proinflammatory Mediator: *Ruiz-Ortega, M. et al.*

Angiotensin-Induced Inflammation and Vascular Injury: *Müller, D. et al.*

Angiotensin II and Renal Fibrosis

Angiotensin II, TGF- β and Renal Fibrosis: *Gaedeke, J. et al.*

Angiotensin as Inducer of Plasminogen Activator Inhibitor-1 and Fibrosis: *Ma, L.; Fogo, A.B.*

Angiotensin and Renal Fibrosis: *Gilbert, R.E. et al.*

Renin-Angiotensin System, Proteinuria, and Tubulointerstitial Damage: *Ruggenenti, P. et al.*

The Renin-Angiotensin System and Specific Diseases

Angiotensin-Converting Enzyme Inhibitors and Progression of Renal Disease: Evidence from Clinical Studies: *Wenzel, U.O.*

The Renin-Angiotensin System in Diabetic Nephropathy: *Chen, S. et al.*

Renin-Angiotensin System in Chronic Renal Allograft Dysfunction: *Shihab, F.S.*

Angiotensin II and Atherosclerosis: Relevance for Renal Disease: *Galle, J.; Quaschnig, T.*

Role of Angiotensin II in Chronic Ureteral Obstruction: *Chevalier, R.L.; Cachat, F.*

Contributions to Nephrology, Vol. 135

The Renin-Angiotensin System and Progression of Renal Diseases

Editor: *Wolf, G. (Hamburg)*

X + 268 p., 46 fig., 7 in color, 5 tab., hard cover, 2001

CHF 228.- / DEM 296.- / USD 198.25

Prices subject to change

DEM price for Germany, USD price for USA only

ISBN 3-8055-7275-1

Distributed in Japan exclusively by Igaku Shoin Ltd., Tokyo

From basic concepts
to clinical aspects –
A concise review

The Renin-Angiotensin System and Progression of Renal Diseases

Editor: **Gunter Wolf**

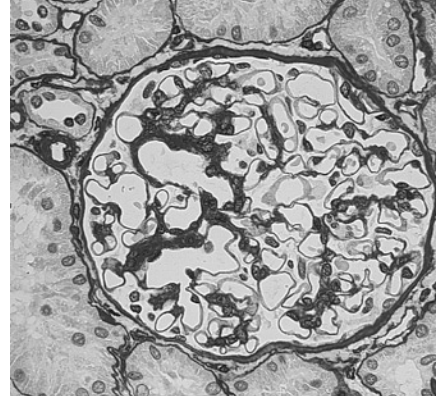
The renin-angiotensin system (RAS) has long been seen as a systemic endocrine system in which angiotensin II (ANG II) is solely involved in blood pressure regulation and the mediation of aldosterone release. However, it is now known that specific organ systems exhibit their own local RAS, functioning for the most part independently from their systemic counterpart. A deluge of data from the last decade has shown that ANG II displays many more functions than just regulating blood pressure: ANG II is a growth factor, exhibits profibrogenic actions, and even serves as a proinflammatory cytokine. It is now clear that this peptide plays a pivotal role in the progression of chronic kidney disease towards end-stage renal failure. Clinical studies have provided compelling evidence that interference with ANG II slows this deterioration of renal function.

This publication presents the first comprehensive summary of this important topic: Basic concepts as well as clinical aspects of the RAS are reviewed by international experts who made many of the key discoveries that constitute our contemporary understanding of ANG II as a central factor in the progression of renal disease.

This publication should be read by physicians treating patients with chronic renal diseases (internists, nephrologists and urologists). Moreover, basic scientists such as renal physiologists, renal pathologists and biochemists who want a comprehensive overview of the subject will profit from reading this book.

Fields of Interest:

Nephrology; Physiology; Pathology,
Biochemistry, Endocrinology, Urology



KARGER

The book series

Contributions to Nephrology

Series Editors:

Berlyne, G. (Beersheva/Brooklyn, N.Y.); Ronco, C. (Vicenza)

ISSN 0302-5144

'... an invaluable collection on the nephrologist's personal bookshelf.'

Journal of the Royal Society of Medicine

'Together, they form an excellent library.'

Journal of Medical Genetics



Vol. 134

Type-2 Diabetic Nephropathy in Japan. From Bench to Bedside

Editor: Tomino, Y. (Tokyo)

VIII + 140 p., 35 fig., 9 in color, 18 tab., hard cover, 2001

CHF 198.- / DEM 257.- / USD 172.25

ISBN 3-8055-7274-3

Vol. 133

Dialysis, Dialyzers and Sorbents Where Are We Going?

Editors: Ronco, C. (Vicenza); Winchester, J.F. (New York, N.Y.)

VIII + 200 p., 53 fig., 16 in color, 19 tab., hard cover, 2001

CHF 228.- / DEM 296.- / USD 198.25

ISBN 3-8055-7225-5

Vol. 132

Blood Purification in Intensive Care

2nd International Course on Critical Care Nephrology, Vicenza, May 2001

Editors: Ronco, C. (Vicenza); Bellomo, R. (Heidelberg, Australia); La Greca, G. (Vicenza)

(Heidelberg, Australia); La Greca, G. (Vicenza)

X + 434 p., 69 fig., 19 in color, 49 tab., hard cover, 2001

CHF 286.- / DEM 371.- / USD 248.75

ISBN 3-8055-7207-7

Vol. 131

Advanced Glycation End Products in Nephrology

Editors: D'Angelo, A.; Favaro, S.; Gambaro, G. (Padova)

VIII + 148 p., 31 fig., 2 in color, 20 tab., hard cover, 2001

CHF 228.- / DEM 296.- / USD 198.25

ISBN 3-8055-7135-6

Prices subject to change

DEM price for Germany, USD price for USA only

Distributed in Japan exclusively by Igaku Shoin Ltd., Tokyo

KARGER

www.karger.com/bookseries/conep

Order Form

Contributions to Nephrology

Please send:

copy/ies: Vol. 135:

The Renin-Angiotensin System and Progression of Renal Diseases

CHF 228.- / DEM 296.- / USD 198.25

ISBN 3-8055-7275-1

copy/ies: _____

ISBN 3-8055- _____

information on vols. 1-134

the book series **Contributions to Nephrology** on continuation beginning with vol. _____

All Karger series are available on continuation. Each new volume will be sent upon publication until order is countermanded.

For easy ordering or information about other Karger publications log on to: www.karger.com

Postage and handling free with prepayment

Payment:

Check enclosed Please bill me

Please charge this order to my credit card

American Express Diners Visa

Eurocard MasterCard

Card No.: _____

Exp. date: _____

Name/Address (please print): _____

Date: _____

Signature: _____

Orders can be placed at agencies, bookstores, directly with the publisher, or with any Karger distributor.

S. Karger AG, P.O. Box, CH-4009 Basel (Switzerland)

Fax +41 61 306 12 34, E-Mail karger@karger.ch

USA: S. Karger Publishers, Inc., 26 West Avon Road, P.O. Box 529,

Farmington, CT 06085 Toll free: 1-800-828-5479

Germany: S. Karger GmbH, Lörracher Str. 16A, D-79115 Freiburg

S. Karger GmbH, Querstrasse 18, D-04103 Leipzig

France: Librairie Luginbühl, 36, bd de Latour-Maubourg,

F-75007 Paris

United Kingdom, Ireland: S. Karger AG, 58 Grove Hill Road,

Tunbridge Wells, Kent TN1 1SP (UK)

Baltic States: Klanberg Ltd., Jääraku 67, EE-12015 Tallinn (Estonia)

India, Bangladesh, Sri Lanka: Panther Publishers Private Ltd., 39,

6th Cross, Wilson Gardens, Bangalore 560 027 (India)

ASEAN countries, Hong Kong, Taiwan, South Korea: APAC Publishers

Services Pte. Ltd., 31, Tannery Lane, #07-01 Dragon Land Building,

Singapore 347788

Australia: DA Information Services, 648 Whitehorse Road,

P.O. Box 163, Mitcham, Vic. 3132

To be ordered through: