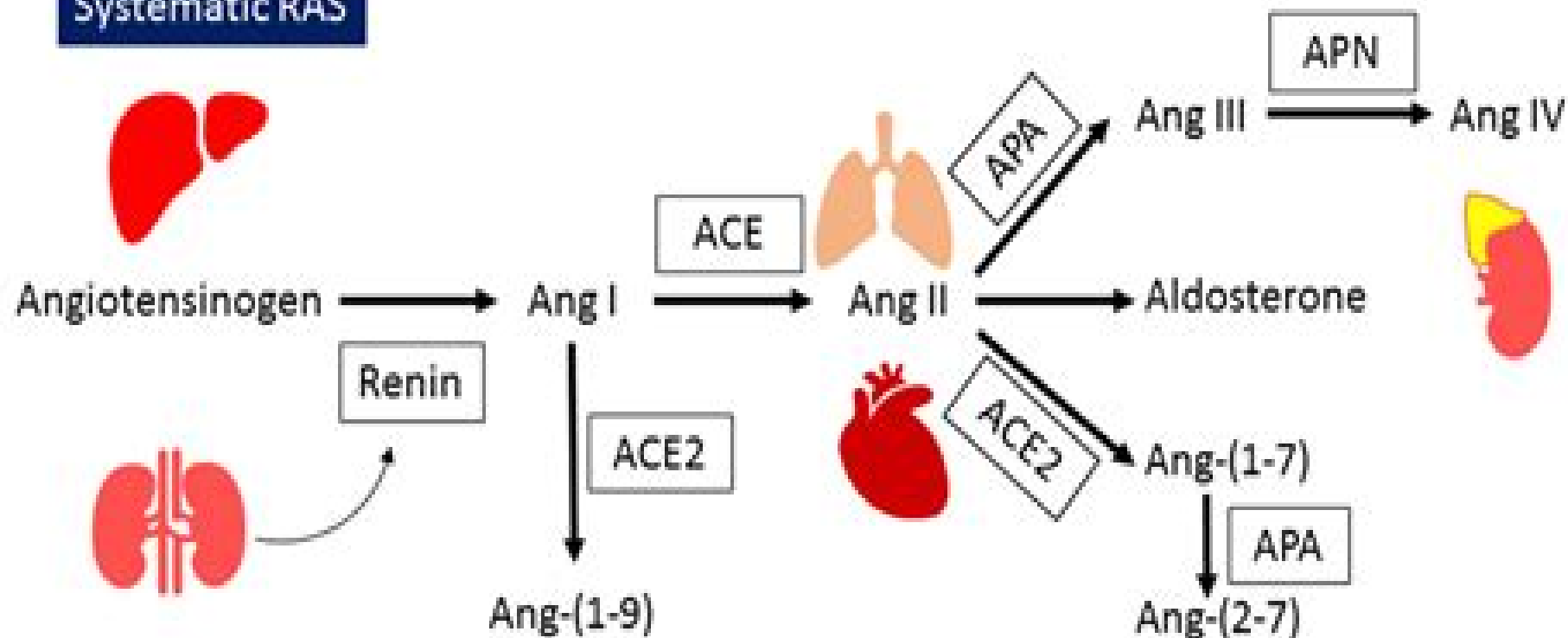


Systematic RAS



Local RAS



Renin



Fibrosis

Ang II



Vasoconstriction
Fibrosis
Sodium retention

Ang II



Vasodilatation
Anti-fibrosis

Ang-(1-7)



Vasodilatation
Natriuresis

New Insights On Reninangiotensin System In The Kidney

Thomas Unger, Bernward A. Schölkens



New Insights On Reninangiotensin System In The Kidney:

New Insights on Renin-Angiotensin System in the Kidney Norimoto Yanagawa, Carlos E. Palant, 1991-01-01 **The Renin-Angiotensin System and the Kidney** Xiao C. Li, Jia L. Zhuo, 2015-03-01 The renin angiotensin system RAS is one of the most important endocrine tissue to tissue paracrine cell to cell and intracrine intracellular nuclear humoral systems in the regulation of blood pressure cardiovascular and kidney function in health and disease The RAS has remarkably evolved from the initial discovery of the rate limiting enzyme renin to a complex biochemical and physiological cascade involving more than a dozen members Currently there are up to five axes or pathways identified in the RAS each has its substrate enzyme effector peptide receptor and downstream signaling pathways These include the renin ACE ANG II AT1 receptor the APA ANG III AT2 receptor the ACE2 ANG 1 7 Mas receptor the prorenin prorenin receptor PRR and the ANG IV AT4 receptor IRAP pathways Accordingly the roles of the RAS have expanded well beyond the classic endocrine paradigm as a powerful vasoconstrictor a potent aldosterone stimulator or a sodium retaining hormonal system The goals of this article are to review and discuss the current insights into and new perspectives on the expression localization and novel actions of the RAS with a focus in the kidney Special emphasis will be placed on recently discovered new members of the RAS derived from studies using innovative mutant rats or mice that either overexpress knockin or are deficient knockout of a particular substrate enzyme ANG peptide or receptor This new knowledge will help improve our understanding how each of these pathways act directly or indirectly to regulate blood pressure cardiovascular and kidney function in physiology and can be targeted to treat hypertension cardiovascular and renal diseases **New Insights on the Renin-angiotensin System in the Kidney**, 1991

New Insights in Vertebrate Kidney Function J. A. Brown, R. J. Balment, J. C. Rankin, 1993-04-22 An important collection of reviews summarising our current understanding of the working of the vertebrate kidney **Hypertension: New Insights for the Healthcare Professional: 2012 Edition**, 2012-12-10 Hypertension New Insights for the Healthcare Professional 2012 Edition is a ScholarlyEditions eBook that delivers timely authoritative and comprehensive information about Hypertension The editors have built Hypertension New Insights for the Healthcare Professional 2012 Edition on the vast information databases of ScholarlyNews You can expect the information about Hypertension in this eBook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Hypertension New Insights for the Healthcare Professional 2012 Edition has been produced by the world's leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com>

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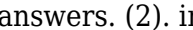
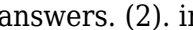
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