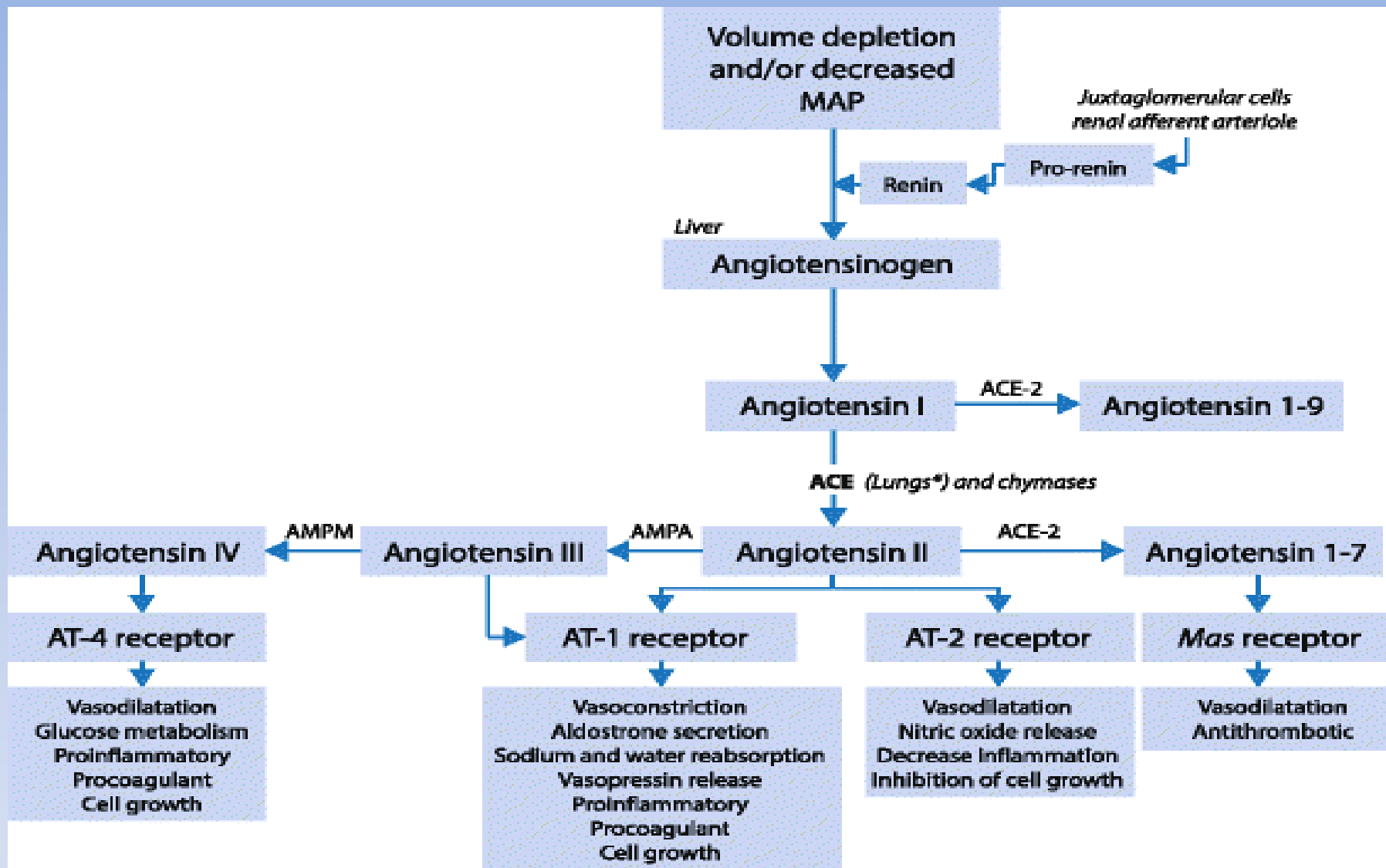


ANGIOTENSIN RECEPTORS

Prof.Dr.Nuray ARI,2018



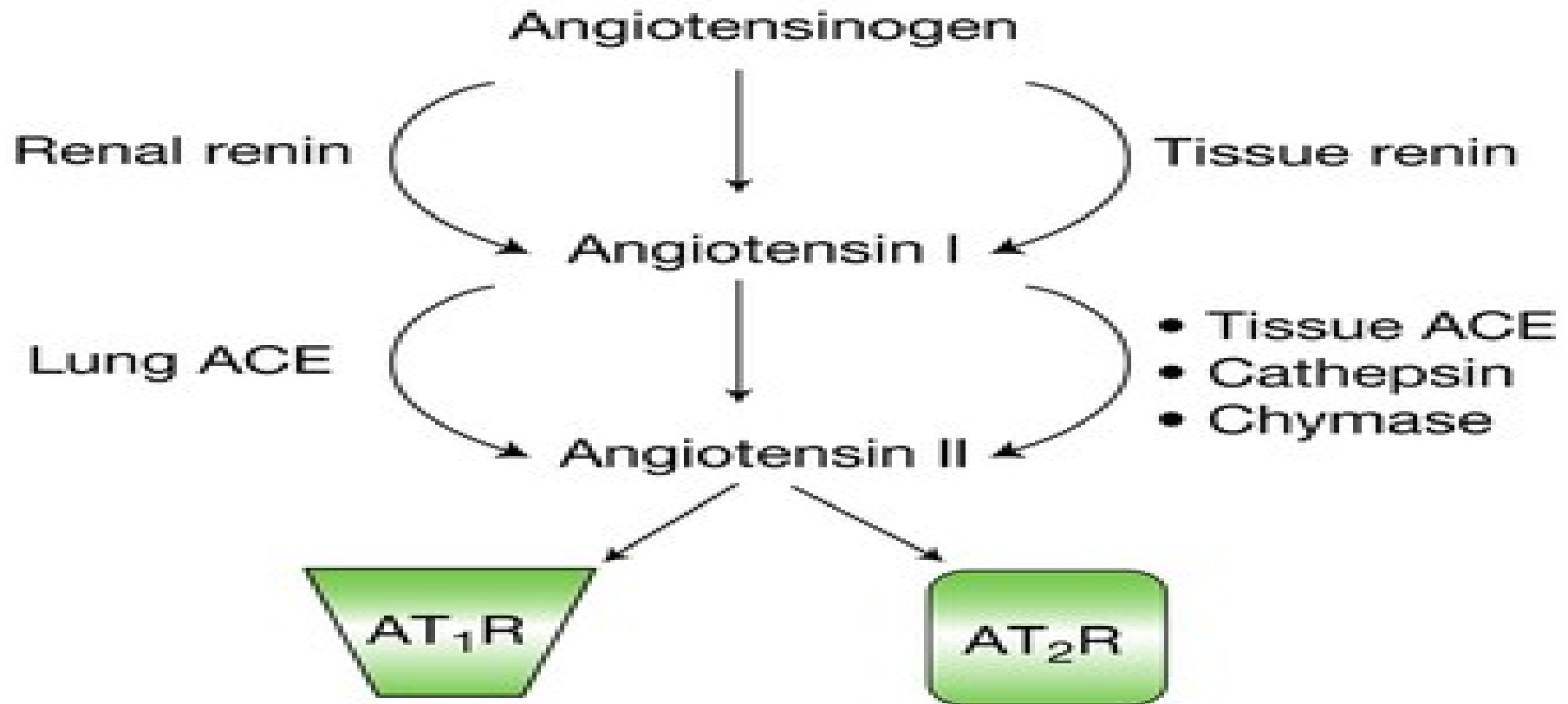
Overview of the renin-angiotensin system

MAP: mean arterial blood pressure; AT: angiotensin; ACE: angiotensin-converting enzyme; AMPA: aminopeptidase A; AMPM: aminopeptidase M.

Corrêa, T.D., Takala, J. & Jakob, S.M. Crit Care (2015) 19: 98.

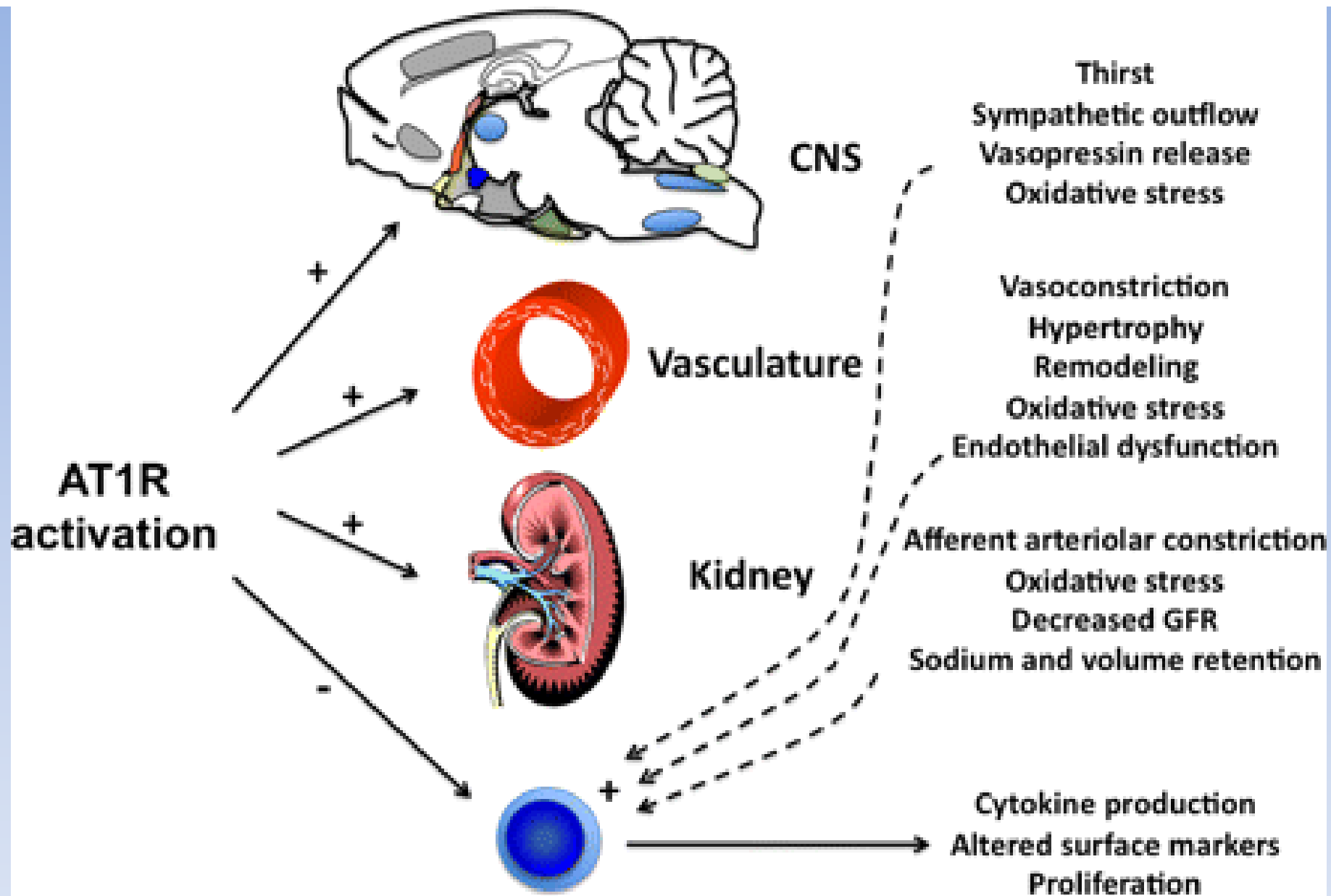
Circulating RAS

Tissue RAS



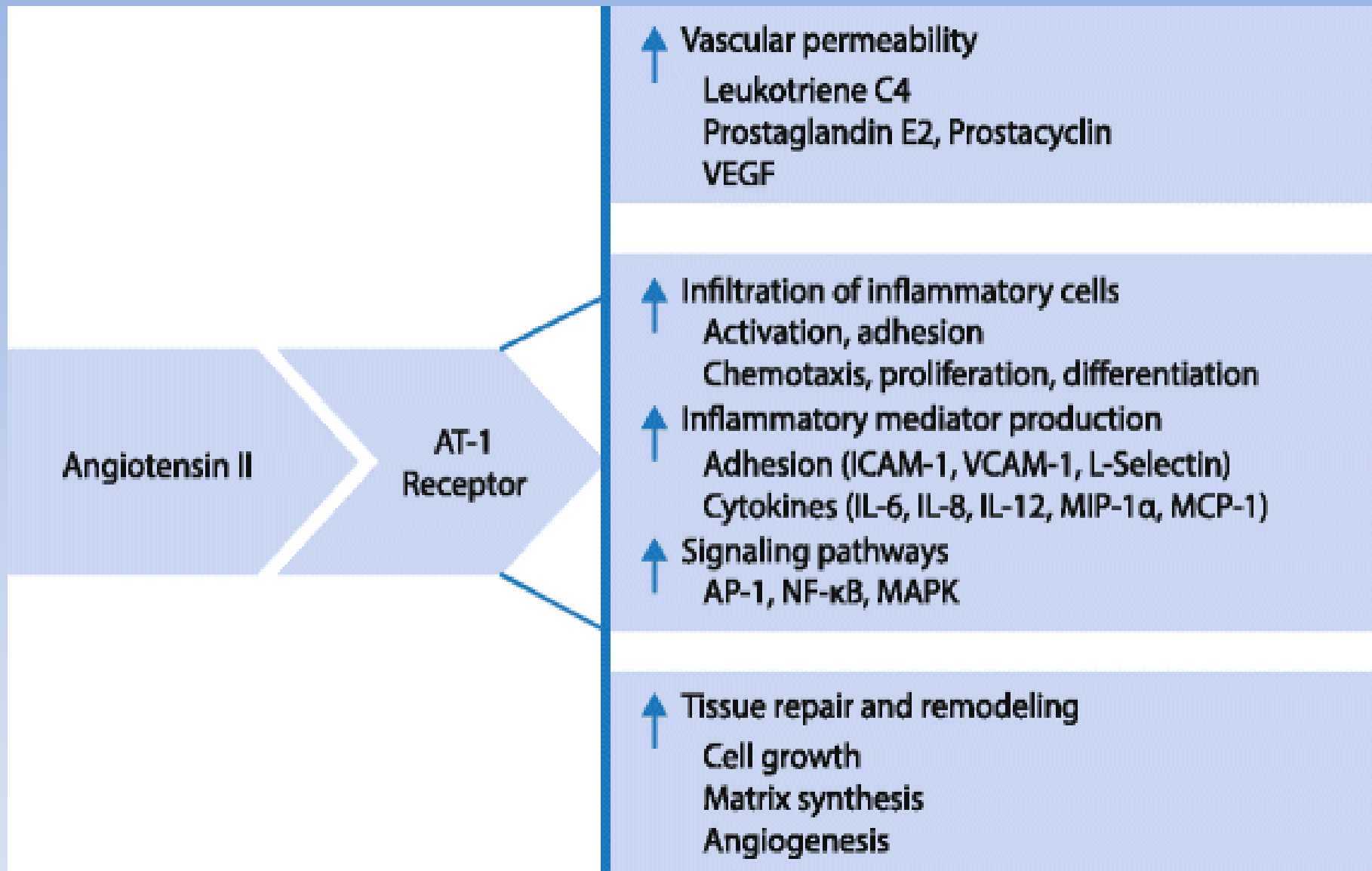
Renin-angiotensin systems

Expert Reviews in Molecular Medicine © 2011
Cambridge University Press

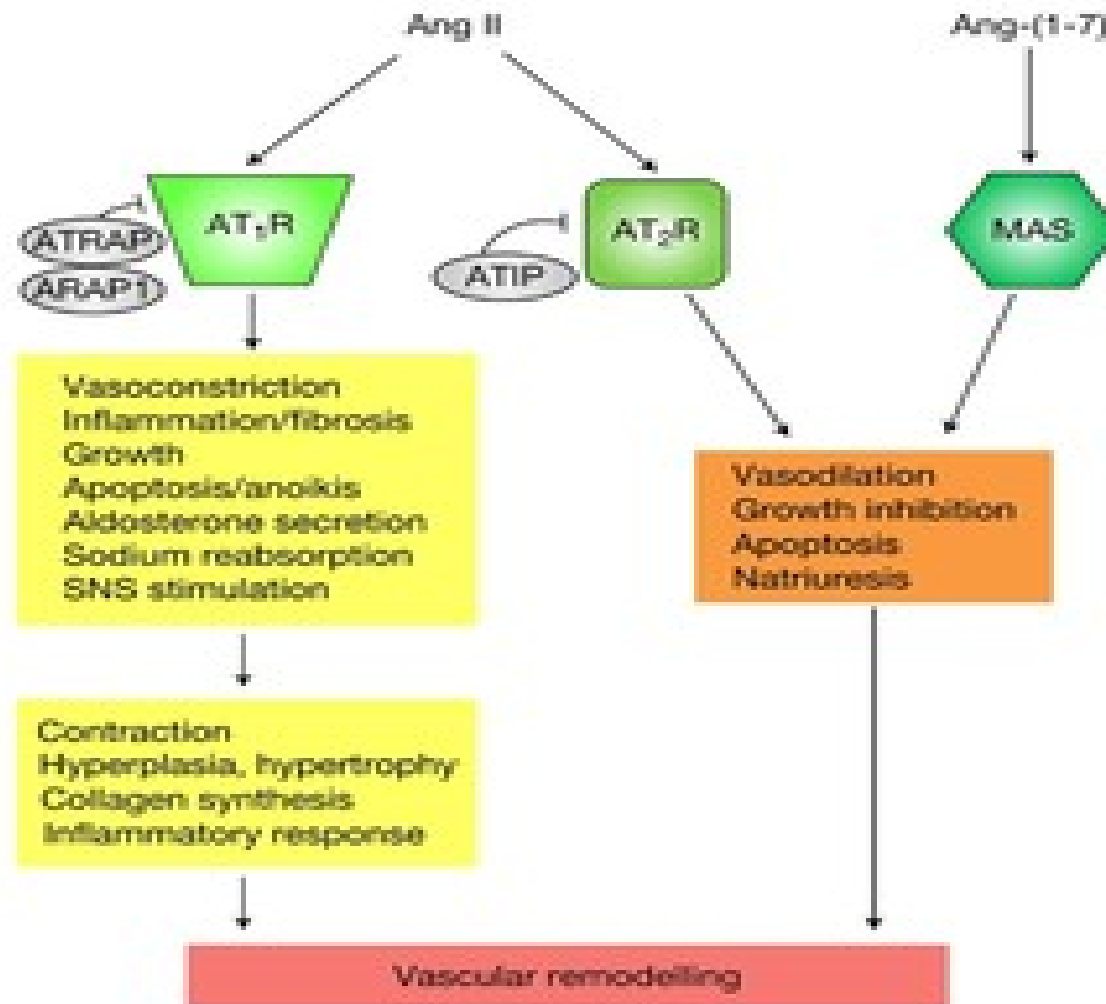


Multisystem effects of angiotensin type 1 receptor (AT₁R) activation in hypertension

David G. Harrison, Tomasz J. Guzik. *Circulation Research*. 2012;110:1543-1545

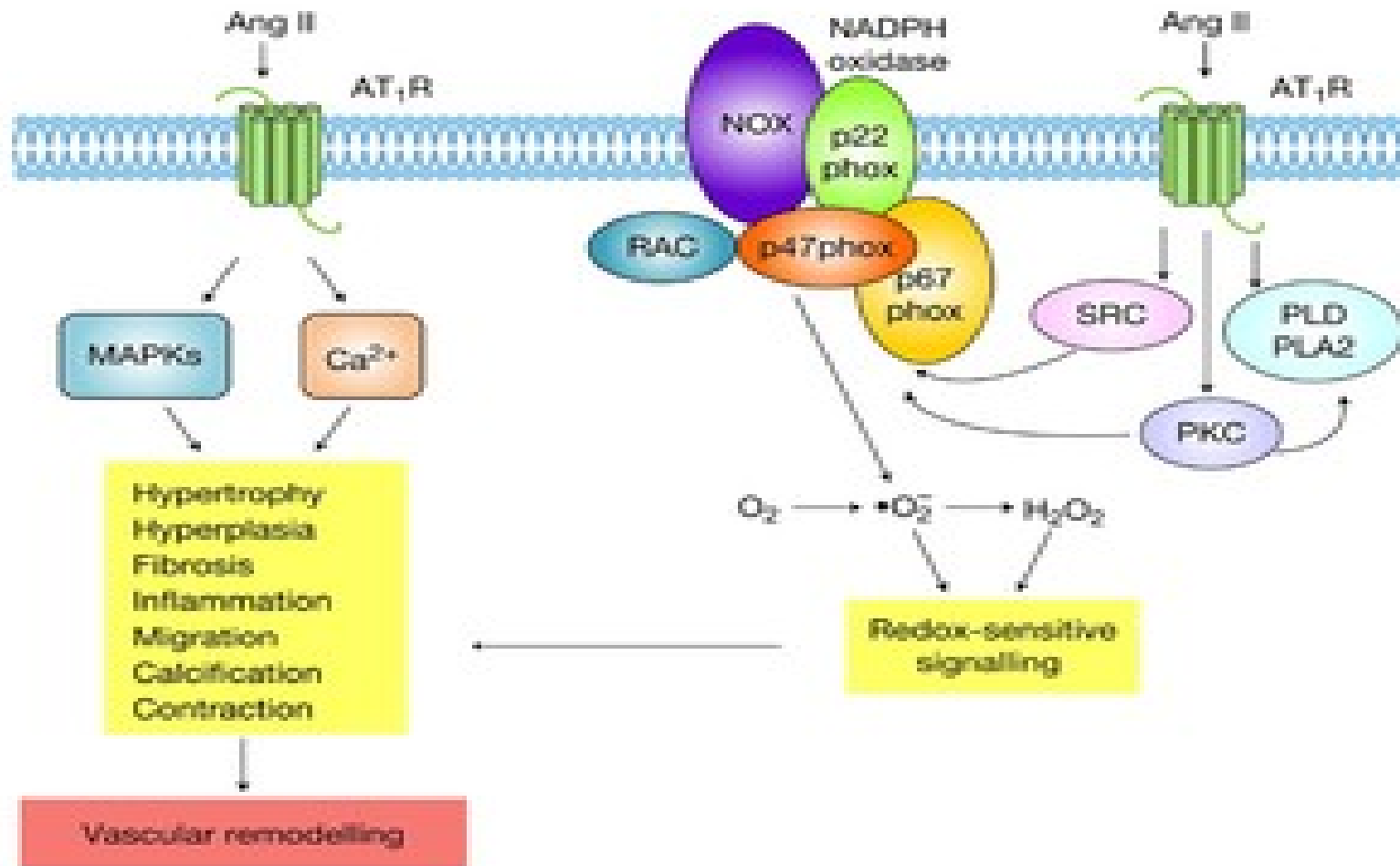


Key potential mechanism attributed to angiotensin II's action via AT-1 receptors



Molecular and cellular processes mediated by angiotensin II and Ang-(1-7) that influence vascular changes in hypertension

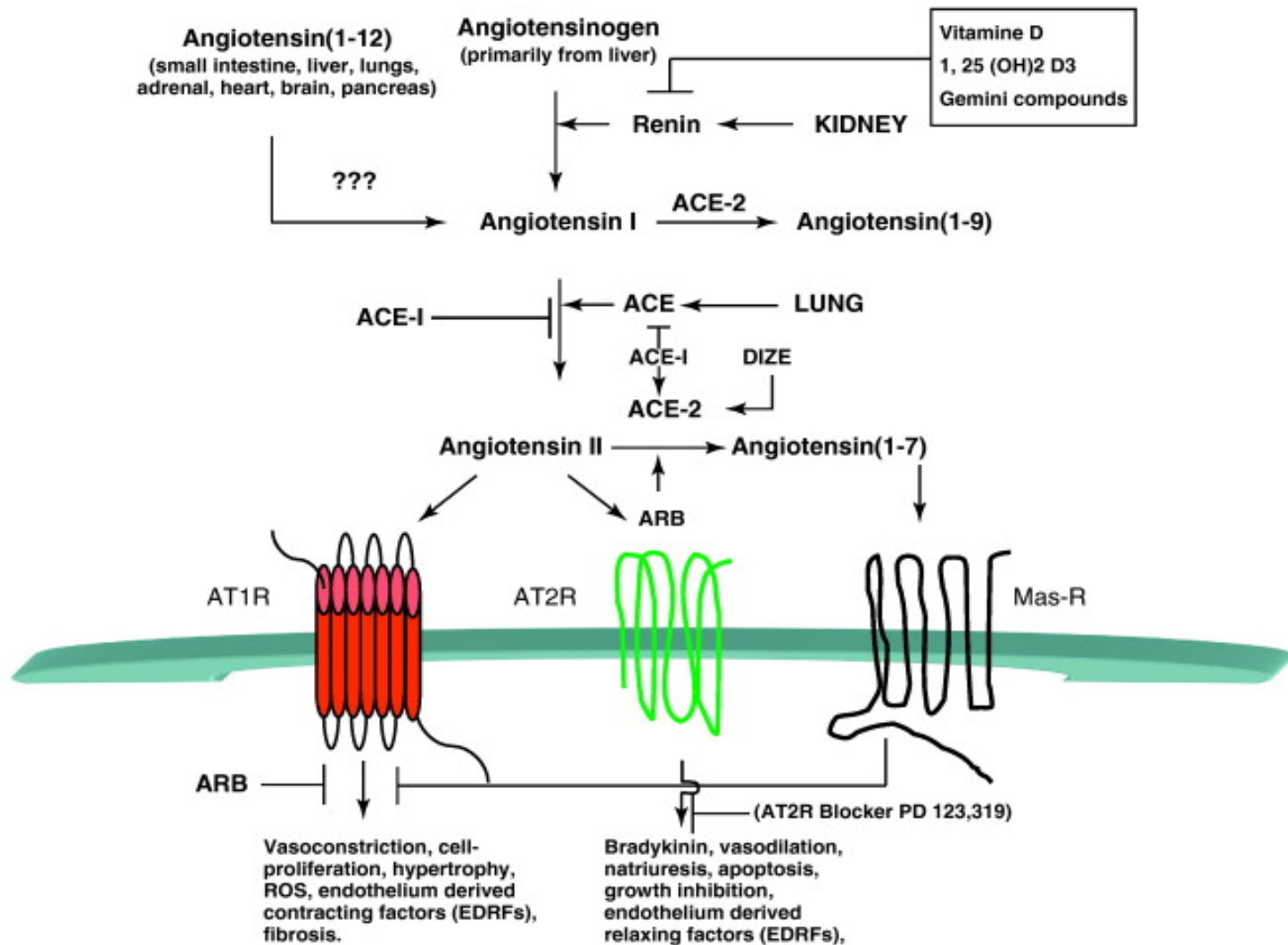
Expert Reviews in Molecular Medicine © 2011 Cambridge University Press



Angiotensin-II-mediated signalling events in vascular smooth muscle cells that promote vascular remodelling and inflammation

Expert Reviews in Molecular Medicine © 2011 Cambridge University Press

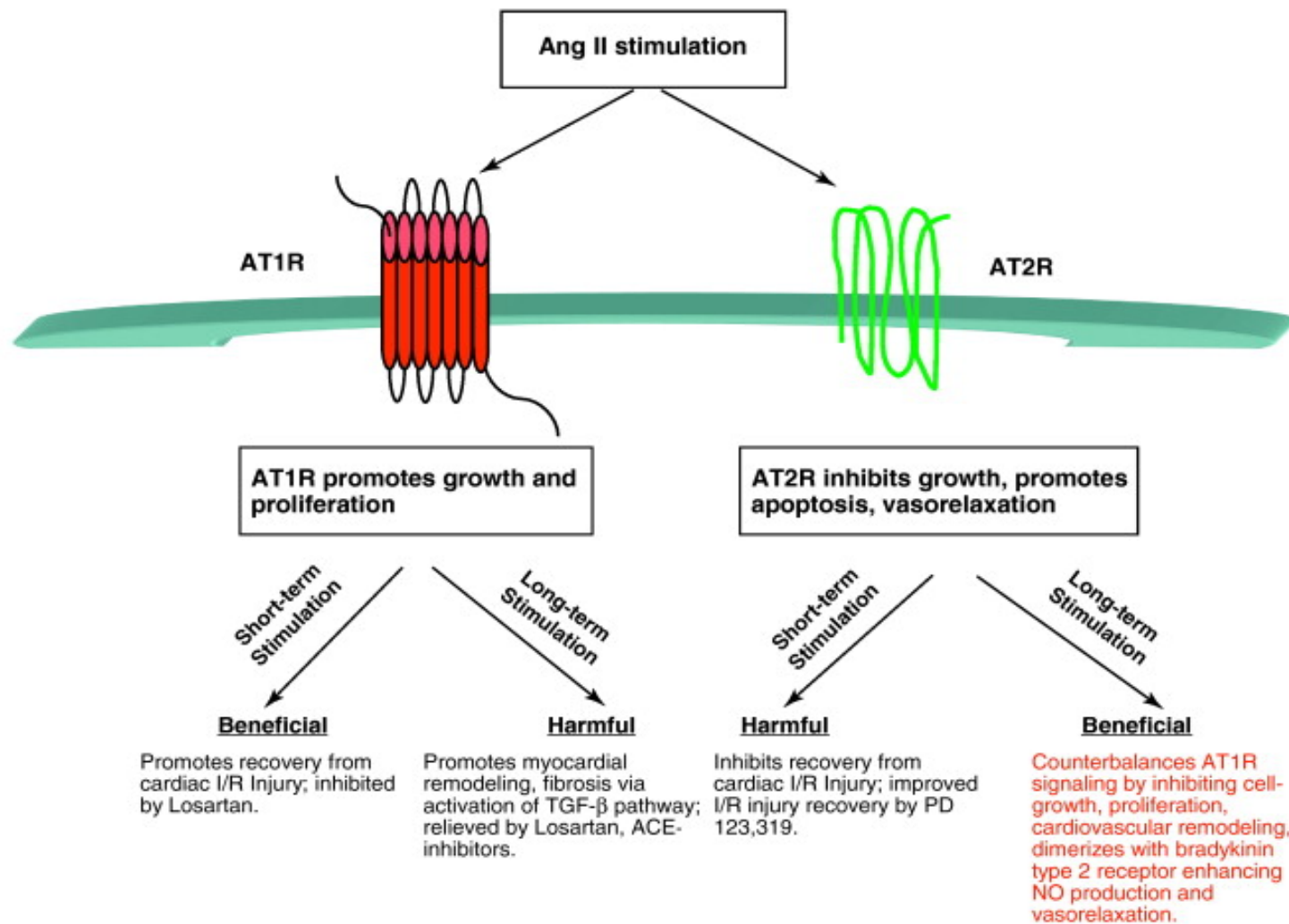
Expert Reviews in Molecular Medicine, [Vol 13](#), 2011, e11, Savoia et al.



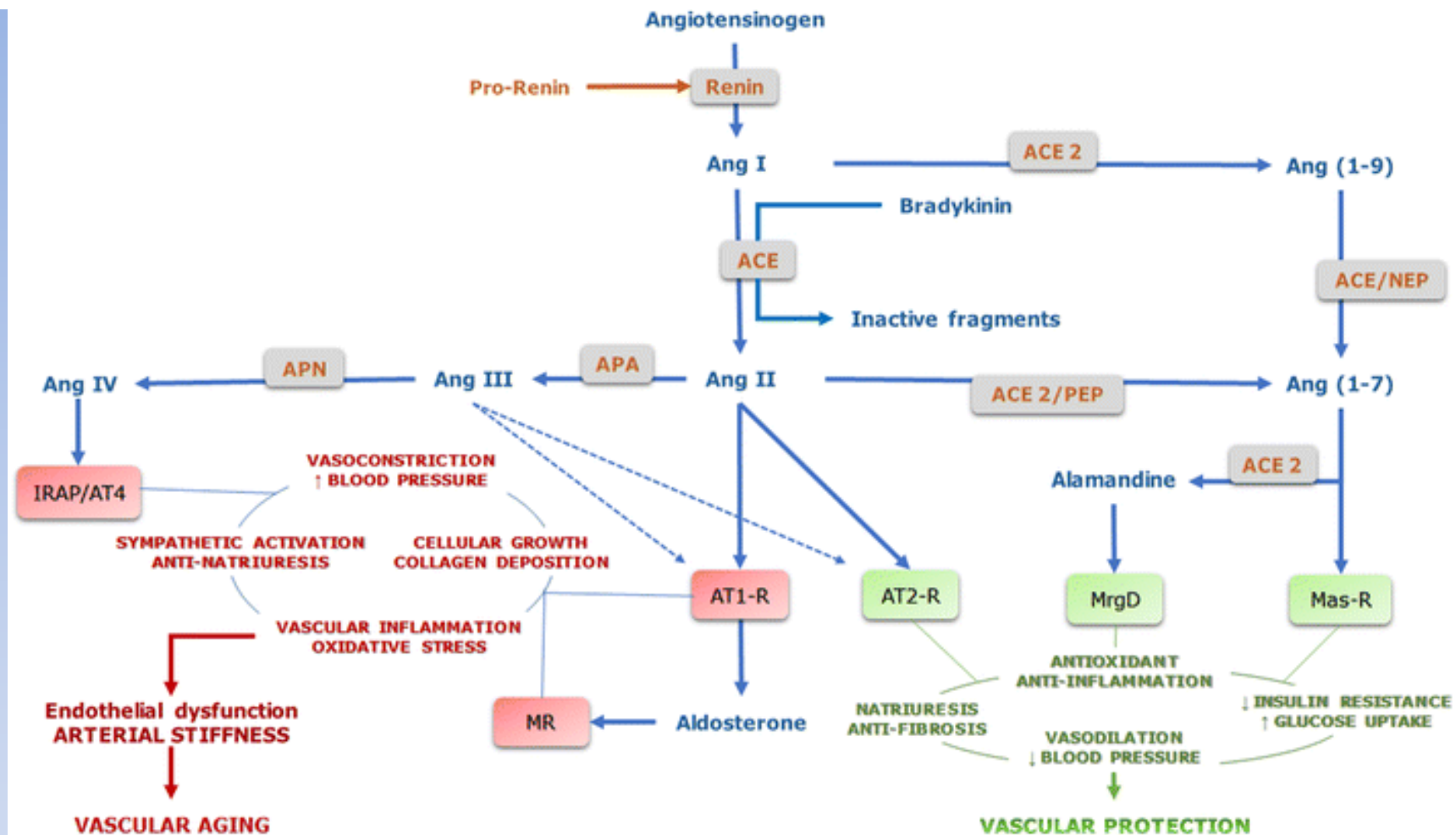
Drug Discovery Today

The renin–angiotensin system (RAS) and long-term effects of angiotensin II receptor stimulation

Drug Discovery Today 16(1-2): 22-34 , 2011. Dasgupta C and Zhang L

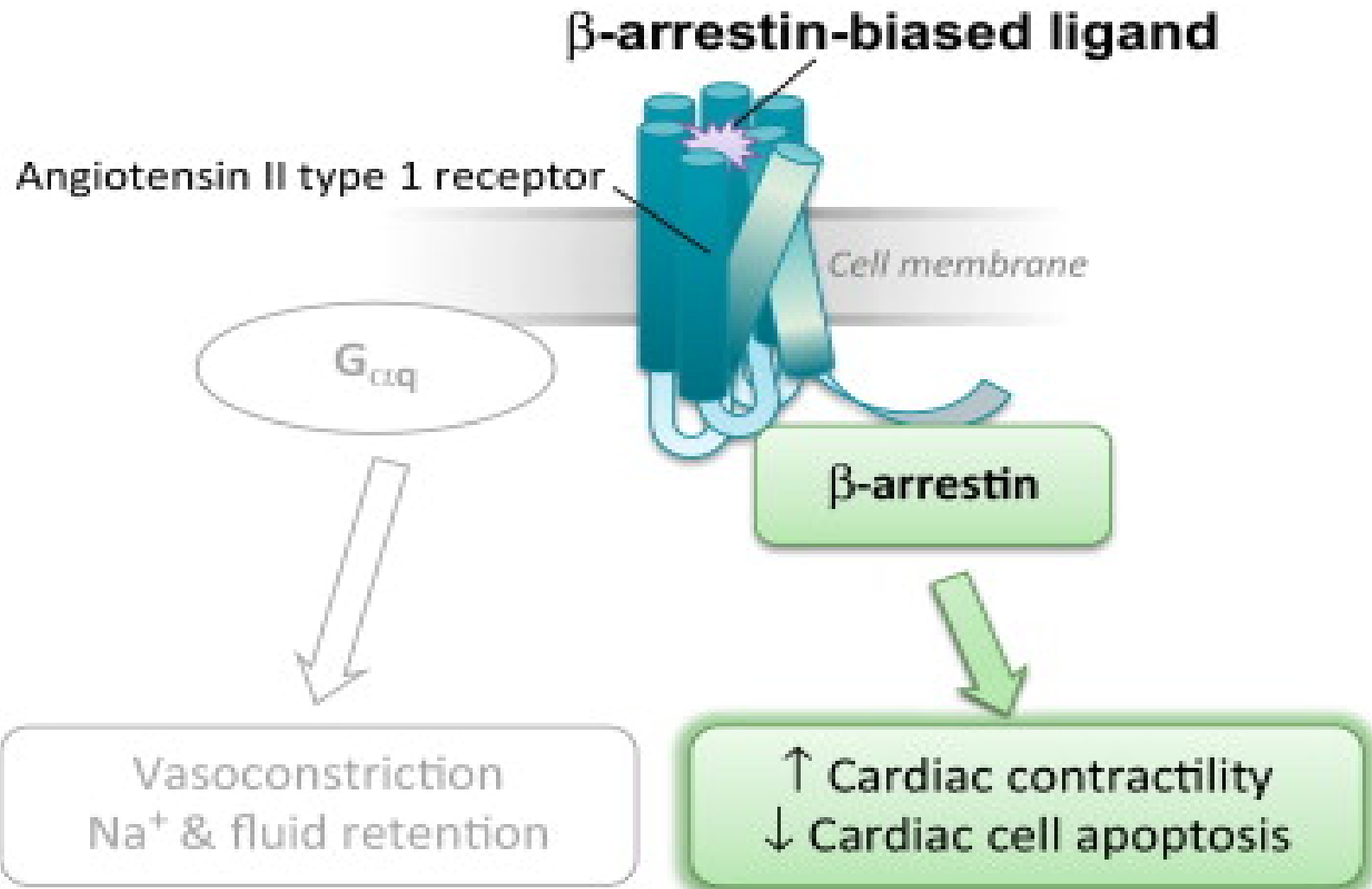


Summary of acute and chronic stimulation of angiotensin II receptors



The mechanisms involved in the vasoprotective axis of the RAAS, mainly represented by the effects of AT2 receptor, Mas receptor and Mas-related G-protein-coupled receptor (MrgD), counteracting the deleterious effects of AT1 receptor, mineralocorticoid receptor (MR) and insulin regulated aminopeptidase (IRAP)/AT4 receptor in the vasoconstrictor axis, which contributes to the development of vascular aging. *NEP* neutral endopeptidase, *PEP* prolyl-endopeptidase, *APA* aminopeptidase A, *APN* aminopeptidase N.

[High Blood Press Cardiovasc Prev.](#) 2018 Feb 23. doi: 10.1007/s40292-018-0252-5. [Epub ahead of print] The Role of Renin-Angiotensin-Aldosterone System and Its New Components in Arterial Stiffness and Vascular Aging. [Neves MF](#)



TRENDS in Pharmacological Sciences