

## The Protective Arm of the Renin Angiotensin System (RAS): Functional Aspects and Therapeutic Implications



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**Implications** is the first comprehensive publication to signal the protective role of a distinct part of the renin–angiotensin system (RAS), providing readers with early insight into a complex system which will become of major medical importance in the near future. Focusing on recent research, The Protective Arm of the Renin Angiotensin System presents a host of new experimental studies on specific components of the RAS, namely angiotensin AT2 receptors (AT2R), the angiotensin (1–7) peptide with its receptor Mas, and the enzyme ACE 2, which exert significant beneficial, health-promoting actions by counterbalancing the well-known harmful arm of the RAS with its classical angiotensin AT1 receptor. This innovative concept of the protective arm of the RAS, examined in this reference, represents an indispensable background and will be a strong support for biomedical students, researchers, cardiologists, surgeons, nephrologists, diabetologists, and endocrinologists, as well as any other physician or researcher concerned with RAS physiology, pathophysiology and clinical implications.

- Provides a complete understanding of the protective side of the Renin Angiotensin System (RAS) involving angiotensin AT2 receptor, ACE2, and Ang(1-7)/Mas receptor
- Combines the knowledge of editors who pioneered research on the protective renin angiotensin system including; Dr. Thomas Unger, one of the founders of AT2 receptor research; Dr. Ulrike M. Steckelings, who contributed significantly to first preclinical studies with a novel specific AT2-agonist, and Dr. Robson Santos who pioneered research on angiotensin-(1-7) and its receptor Mas.
- Shows that the protective RAS axes are able to ameliorate the course of several cardiovascular, renal, metabolic and neurological diseases
- Provides the basis for the understanding of a novel therapeutic approach to stimulate components of the protective arm of the RAS.

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