

The Renin-Angiotensin signaling (RAS) pathway

Elimination of ACE2 by SARS-CoV-2 will drive ANG II signaling, as
a) less ANG II is broken down
b) decreased signaling by ANG 1-7 and other ACE2-derived peptides

Angiotensinogen

Renin, Cathepsins & others

Angiotensin I

ACE2

Angiotensin 1-9

ACE1, Chymase

PREP, MME

ACE1

Angiotensin IV

Angiotensin II

APs

ACE2, PREP

Angiotensin 1-7

ACE1

Angiotensin 1-5

Alamandine

MRGPRD?
Other targets?

AGTR1

AGTR2

Signaling to MAS1 GPCR
+ Other signaling
mechanisms?

Poorly understood, especially
in humans

