

Response to Reviewers:

We would like to thank the Reviewers for their positive comments, valuable critiques, and helpful suggestions. We now provide the following changes to our manuscript:

- 1) Relevant citations on the downstream LIMK effectors have been added
- 2) A link between ROCK and actin has been added to Figure 1
- 3) The missing citation on MRTF translocation was added
- 4) A more complete discussion of areas ripe for future exploration has been added. In particular, we now highlight the necessity for further studies on the role for Rho/ROCK signaling in peripheral nerves as it relates to peripheral resistance and BP control (pg. 5). Key gaps and future directions for the field are noted at the end of each subsection within the review. We also added more details on model systems as requested. We have for the large part focused on studies that are conserved across species and different hypertensive models, but when discrepancies have been found between these models (or between in vitro and in vivo systems) they are now noted accordingly (for example, see new sentence on page 8, end of paragraph 1).
- 5) A few noted typographical errors have been modified (including the line indicated on page 6)
- 6) A running title has been added to the title page