Response to Pin1 as a Protector of Vascular Endothelial Homeostasis

We appreciate the interest and comments made in a Letter to the Editor regarding our recent editorial. In this response, we address some key points raised in that letter. First, in contrast to what is stated in the letter, we do not hold the view that Pin1 is a phosphatase, and we never indicated such in our editorial. We did indicate in the editorial that Pin1 is thought to alter the conformation of a proline residue (phosphorylated serine/proline) within endothelial NO synthase that then allows other proteins (whichever they may be) to act on exposed phosphate groups. Second, although the schematic that we presented was a simple representation, our intention was to highlight the concept that Pin1 normally promotes endothelial NO synthase function by producing conformation changes that allow other posttranslational modifications to affect enzyme activity. Third, in relation to the discussion in the letter regarding vascular endothelial growth factor, the endothelial NO synthase signaling pathway affects and is affected by many targets and mechanisms. In our brief editorial, we could not discuss many of them, including vascular endothelial growth factor.

Disclosures

None.

Andrew W. Johnson
Department of Pharmacology
Cardiovascular Center
University of Iowa Carver College of Medicine
Iowa City, IA

Frank M. Faraci
Departments of Pharmacology and Internal Medicine
Cardiovascular Center
University of Iowa Carver College of Medicine
Iowa City, IA

References

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Andrew W. Johnson and Frank M. Faraci

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