Regarding the Article by Timmers et al

To the Editor:

In an article in Circulation Research, Timmers et al describe exaggerated left ventricular remodeling in p50 knockout (KO) mice. The results are in sharp contrast to all reports evaluating cardiac disease models in the p50 KO to date: tumor necrosis factor–overexpressing mice, but not p50 KO mice crossed with tumor necrosis factor–overexpressing mice, did develop heart failure. p50 KO mice did not develop cardiac hypertrophy after angiotensin stimulation. p50 KO mice were protected from ischemia/reperfusion injury. Regarding chronic myocardial infarction, we and others have described improved cardiac remodeling after myocardial infarction as measured by echocardiography. Timmers et al argue that the difference between their and the findings of others might be attributable to different imaging modalities (MRI in their study, echocardiography in the other studies); however, we cannot follow this argument. Although minor differences may be explained by the more thorough imaging using MRI, this cannot account for a total reversal of the results obtained by 2 other independent groups. It appears more likely that the strain of mice used in these experiments could be responsible: we had backcrossed the p50 KO mice for 10 generations to a C57BL/6 background, whereas Timmers et al used a mixed background (129Bl6) and bought control mice. Inappropriate controls resulting from a lack of backcrossing thus may account for the opposite results compared with all studies published to date.

S. Frantz
J. Bauersachs
Medizinische Klinik und Poliklinik I
Universitätsklinikum Würzburg

Würzburg, Germany
E-mail frantz_s@medizin.uni-wuerzburg.de

References

Regarding the Article by Timmers et al
S. Frantz and J. Bauersachs

Circ Res. 2009;104:e60
doi: 10.1161/CIRCRESAHA.109.197459
Circulation Research is published by the American Heart Association, 7272 Greenville Avenue, Dallas, TX 75231
Copyright © 2009 American Heart Association, Inc. All rights reserved.
Print ISSN: 0009-7330. Online ISSN: 1524-4571

The online version of this article, along with updated information and services, is located on the World Wide Web at:
http://circres.ahajournals.org/content/104/11/e60

Permissions: Requests for permissions to reproduce figures, tables, or portions of articles originally published in Circulation Research can be obtained via RightsLink, a service of the Copyright Clearance Center, not the Editorial Office. Once the online version of the published article for which permission is being requested is located, click Request Permissions in the middle column of the Web page under Services. Further information about this process is available in the Permissions and Rights Question and Answer document.

Reprints: Information about reprints can be found online at:
http://www.lww.com/reprints

Subscriptions: Information about subscribing to Circulation Research is online at:
http://circres.ahajournals.org/subscriptions/