

## Gene implicated in stress-induced high blood pressure

## November 23 2009

Do stressful situations make your blood pressure rise? If so, your phosducin gene could be to blame according to a team of researchers, at the University of Freiburg, Germany, and the Medical College of Wisconsin, Milwaukee, that has identified a role for the protein generated by the phosducin gene in modulating blood pressure in response to stress in both mice and humans.

The team, led by Lutz Hein and Ulrich Broeckel, generated <u>mice</u> lacking phosducin and found that they had increased baseline <u>blood pressure</u> when compared with normal mice and that they showed enhanced increases in blood pressure in response to post-operative stress. Analysis in humans indicated that a number of phosducin gene variants were associated with certain stress-dependent blood pressure responses. Further, one <u>gene variant</u> in particular was associated with elevated baseline blood pressure.

These data led the authors to suggest that phosducin might be a good target for drugs designed to alleviate stress-induced high blood pressure. In an accompanying commentary, however, Guido Grassi, at Clinica Medica, Italy, notes that further studies are needed before the therapeutic implications of these data can really be determined.



Source: Journal of Clinical Investigation

Citation: Gene implicated in stress-induced high blood pressure (2009, November 23) retrieved 24 April 2024 from

https://medicalxpress.com/news/2009-11-gene-implicated-stress-induced-high-blood.html

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.