

# Genetic link to heart failure

December 15 2009

---

A team of researchers, at Washington University School of Medicine, St Louis, has identified a group of 12 genetic variants in the HSPB7 gene that is associated with heart failure in humans.

The team, led by Gerald Dorn, used an approach they have recently developed that allows ultra-high-throughput targeted DNA sequencing to identify [genetic variation](#) in four [genes](#) with biological relevance to heart failure. They identified in a large group of Caucasian individuals with heart failure, 129 separate genetic variants in the four genes, including 23 that seemed to be novel.

Further analysis of 1117 Caucasian individuals with heart failure and 625 nonaffected Caucasians indicated that a block of 12 genetic variants in the HSPB7 gene was associated with heart failure. Confirmation of this association was provided by analysis of an independent group of individuals. The authors hope to use the same approach to identify further genetic variants associated with [heart failure](#), a disease that is influenced by multiple genetic factors.

**More information:** Cardiac signaling genes exhibit unexpected sequence diversity in sporadic cardiomyopathy, revealing HSPB7 polymorphisms associated with disease, View this article at: [www.jci.org/articles/view/3908 ... QR23mwtIf19sIud3dWA9](http://www.jci.org/articles/view/3908...QR23mwtIf19sIud3dWA9)

Provided by Journal of Clinical Investigation

Citation: Genetic link to heart failure (2009, December 15) retrieved 12 July 2023 from <https://medicalxpress.com/news/2009-12-genetic-link-heart-failure.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.