

This week in therapeutics

Indication	Target/marker/pathway	Summary	Licensing status	Publication and contact information
Cardiovascular disease				
Myocardial infarction (MI)	Breast cancer 1, early onset associated protein (BRAP); carrier family 5 (sodium/myo-inositol cotransporter), member 3 (SLC5A3); mitochondrial ribosomal protein S6 (MRPS6); potassium voltage-gated channel, Isk-related family, member 2 (KCNE2); phosphatase and actin regulator 1 (PHACTR1); WD repeat domain 12 (WDR12); SNP rs3782886; SNP rs11066001; SNP rs9982601; SNP rs12526453; SNP rs6725887	Two genomewide association studies identified five SNPs that could potentially be used as markers of MI susceptibility. A study in Japanese and Taiwanese MI patients showed a significant association between SNPs rs3782886 and rs11066001 and MI ($p=7.0 \times 10^{-23}$ and $p=1.3 \times 10^{-24}$, respectively). SNP rs3782886 and rs11066001 are located in <i>BRAP</i> . A second MI cohort study showed a significant association between SNPs rs9982601, rs12526453 and rs6725887 and MI risk ($p=6.4 \times 10^{-11}$, $p=1.3 \times 10^{-9}$ and $p=1.3 \times 10^{-8}$, respectively). rs9982601 is near the <i>SLC5A3-MRPS6-KCNE2</i> gene cluster. rs12526453 is in <i>PHACTR1</i> and rs6725887 is in <i>WDR12</i> . Next steps include identifying the mechanisms associated with these SNPs that may determine increased MI risk. SciBX 2(9); doi:10.1038/scibx.2009.357 Published online March 5, 2009	Work with rs3782886 and rs11066001 patented; available for licensing from the RIKEN Center for Intellectual Property Strategies; patent and licensing status for work covering rs9982601, rs12526453, and rs6725887 unavailable	Ozaki, K. <i>et al. Nat. Genet.</i> ; published online Feb. 8, 2009; doi:10.1038/ng.326 Contact: Toshihiro Tanaka, RIKEN, Yokohama, Japan e-mail: toshitan@src.riken.jp Myocardial Infarction Genetics Consortium. <i>Nat. Genet.</i> ; published online Feb. 8, 2009; doi:10.1038/ng.327 Contact: Sekar Kathiresan, Massachusetts General Hospital, Boston, Mass. e-mail: skathiresan1@partners.org