

### This week in therapeutics

Indication	Target/marker/pathway	Summary	Licensing status	Publication and contact information
<b>Cardiovascular disease</b>				
Coronary artery disease (CAD)	Muscle RAS oncogene homolog (MRAS); HNF1 homeobox A (HNF1A); solute carrier family 22 (extraneuronal monoamine transporter), member 3 (SLC22A3); lipoprotein, Lp(a)-like 2 (LPAL2); lipoprotein, Lp(a) (LPA); SNP rs9818870; SNP rs2259816; SNP rs2048327; SNP rs3127599; SNP rs7767084; SNP rs10755578	Two genomewide association studies identified six SNPs in three gene loci that could be used as markers of CAD susceptibility. A study of German myocardial infarction patients with premature onset of CAD showed a significant association between SNPs rs9818870 and rs2259816 and risk of CAD ( $p=7.44 \times 10^{-13}$ and $p=4.81 \times 10^{-7}$ , respectively). SNP rs9818870 is located in <i>MRAS</i> , and SNP rs2259816 is near <i>HNF1A</i> . A second CAD patient cohort showed a significant association between SNPs rs2048327, rs3127599, rs7767084 and rs10755578 and disease ( $p=1.19 \times 10^{-9}$ , combined). These four SNPs are located around the <i>SLC22A3-LPAL2-LPA</i> gene cluster. Next steps include identifying mechanisms related to the SNPs that could account for increased risk of CAD.  <b>SciBX 2(8); doi:10.1038/scibx.2009.314</b> <b>Published online Feb. 26, 2009</b>	Work with rs9818870 and rs2259816 unpatented; licensing status not applicable; patent and licensing status for work with rs2048327, rs3127599, rs7767084 and rs10755578 unavailable	Erdmann, J. <i>et al. Nat. Genet.</i> ; published online Feb. 8, 2009; doi:10.1038/ng.307 <b>Contact:</b> Jeanette Erdmann, University of Lubeck, Lubeck, Germany e-mail: <a href="mailto:j.erdmann@cardiogenics.eu">j.erdmann@cardiogenics.eu</a>  Trégouët, J. <i>et al. Nat. Genet.</i> ; published online Feb. 8, 2009; doi:10.1038/ng.314 <b>Contact:</b> David-Alexandre Trégouët, Institut National de la Santé et de la Recherche Médicale (INSERM), Paris, France e-mail: <a href="mailto:david.tregouet@upmc.fr">david.tregouet@upmc.fr</a>