

Supplemental table 1. Candidate genes for depressive symptoms in CAD by pathway

| <u>Genes</u> | <u>Short name</u> | <u>Location</u> | <u>Genes</u> | <u>Short name</u> | <u>Location</u> |
|---|-------------------|-------------------|---|-------------------|-----------------|
| Platelet activation | | | Inflammation | | |
| Tryptophan hydroxylase 2 | TPH2 | 12q15 | Myeloperoxidase precursor | MPO | 17q23.1 |
| 5-HTT | SLC6A4 | 17q11.1-q12 | Interleukin 6 | IL6 | 7q21 |
| 5-HT2 | HTR2A | 13q14-q21 | Interleukin1b | IL1B | 2q14 |
| Thrombomodulin | THBD | 20p11.2 | Intercellular adhesion molecule | ICAM1 | 19p13.3-13.2 |
| Prothrombin | F2 | 11p11 | Vascular cell adhesion molecule1 | VCAM1 | 1p32-p31 |
| von Willebrand factor | VWF | 12p13.3 | Monocyte chemoattractant protein 1 | SCYA2 | 17q11.2-q12 |
| Thromboxane A synthase 1 | TBXAS1 | 7q34 | E-selectin | SELE | 1q22-q25 |
| Thromboxane A2 receptor | TBXA2R | 19p33.3 | P-selectin | SELP | 1q22-q25 |
| Purinergic receptor P2Y1 | P2RY1 | 3q25 | Tumor necrosis factor - alpha | TNF | 6p21.3 |
| Purinergic receptor P2Y12 | P2RY12 | 17p13.3; 3q24-q25 | Plasminogen activator inhibitor-1 | SERPINE1 | 7q21.3-q22 |
| Cyclooxygenase 1 | PTGS1 | 9q32.2-q33 | C-reactive protein | CRP | 1q21-q23 |
| Cyclooxygenase 2 | PTGS2 | 1q25.2-q | CC chemokine receptor 2 | CCR2 | 3p21 |
| Calcium channel, L-type | CACNA1C | 12p13.31 | Sympathetic function | | |
| G protein beta 3 subunit | GNB3 | 12p13.31 | Tyrosine hydroxylase | TH | 11p15.5 |
| cAMP responsive element binding protein 1 | CREB1 | 2q33.3 | Aromatic l-aminodecarboxylase | DDC | 7p11 |
| Platelet glycoprotein 1b | GP1BA | 17p13.2 | Dopamine beta hydroxylase | DBH | 9q34 |
| Platelet glycoprotein IIb | ITGA2B | 17q21.1-q21.3 | Phenylethanolamine-N-methyl transferase | PNMT | 17q21-q22 |
| Platelet glycoprotein IIIa | ITGB3 | 17q21.32 | Adrenoreceptor - beta1 | ADRB1 | 10q24-q26 |
| Omega 3/6 metabolism | | | Adrenoreceptor - beta2 | ADRB2 | 5q32-q34 |
| delta5 desaturase | FADS1 | 11q12.2 | Adrenoreceptor - alpha 1a | ADRA1A | 8p21 |
| delta6 desaturase | FADS2 | 11q12.2 | Adrenoreceptor - alpha 1b | ADRA1B | 5q33 |
| delta9 desaturase | FADS3 | 11q12.2 | Adrenoreceptor - alpha 2 a | ADRA2A | 10q24-q26 |
| HELO1/ELOVL5 | ELOVL5 | 6p12.1 | Monoamine oxydase A | MAOA | Xp11.23 |
| Long chain fatty acid Co-A ligase Type 4 | FACL4 | Xq23 | Monoamine oxydase B | MAOB | Xp11.23 |
| HPA | | | Parasympathetic function | | |
| Glucocorticoid receptor | NR3C1 | 5q31.3 | Choline transporter | SLC5A7 | 2q12 |
| 11beta-HSD1 | HSD11B1 | 1q32.2 | Choline acetyltransferase | CHAT | 10q11.2 |
| 11beta-HSD2 | HSD11B2 | 16q22.1 | Acetylcholine esterase | ACHE | 7q22 |
| Angiotensin converting enzyme | ACE | 17q23 | Acetylcholine muscarinic 2 receptor | CHRM2 | 7q33 |
| Vasopressin | AVP | 20p13 | Neuronal nitric oxide synthase | NOS1 | 12q24 |
| Vasopressin receptor 1b | AVPR1B | 1q32 | Endothelial nitric oxide synthase | NOS3 | 7q36 |
| MISC. | | | | | |
| Cannabinoid receptor 1 | CNR1 | 6q14-q15 | | | |