

## Supplemental Table S26

### Exposure Correlated Multiple Disease DMR Associated Genes

#### Control

|           |                                                        |
|-----------|--------------------------------------------------------|
| ATP6AP2   | ATPase H <sup>+</sup> transporting accessory protein 2 |
| DLGAP3    | DLG associated protein 3                               |
| NBL1      | NBL1, DAN family BMP antagonist                        |
| PFKFB2    | 6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 2  |
| PFKFB4    | 6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 4  |
| ADCY2     | adenylate cyclase 2                                    |
| DNMT3A    | DNA methyltransferase 3 alpha                          |
| UBASH3A   | ubiquitin associated and SH3 domain containing A       |
| FOXO6     | forkhead box O6                                        |
| RAB3D     | RAB3D, member RAS oncogene family                      |
| EGFR      | epidermal growth factor receptor                       |
| IPMK      | inositol polyphosphate multikinase                     |
| LRP1B     | LDL receptor related protein 1B                        |
| CHGB      | chromogranin B                                         |
| ESR1      | estrogen receptor 1                                    |
| KDM5A     | lysine demethylase 5A                                  |
| KCNK2     | potassium two pore domain channel subfamily K member 2 |
| GPR162    | G protein-coupled receptor 162                         |
| MAPT      | microtubule associated protein tau                     |
| GNAI2     | G protein subunit alpha i2                             |
| PTH1R     | parathyroid hormone 1 receptor                         |
| RBM5      | RNA binding motif protein 5                            |
| MMAB      | metabolism of cobalamin associated B                   |
| MOB3B     | MOB kinase activator 3B                                |
| MECOM     | MDS1 and EVI1 complex locus                            |
| ABLIM2    | actin binding LIM protein family member 2              |
| IP6K1     | inositol hexakisphosphate kinase 1                     |
| ZNF24     | zinc finger protein 24                                 |
| RGS6      | regulator of G protein signaling 6                     |
| PEMT      | phosphatidylethanolamine N-methyltransferase           |
| PRKCE     | protein kinase C epsilon                               |
| LCLAT1    | lysocardiolipin acyltransferase 1                      |
| CEACAM1   | CEA cell adhesion molecule 1                           |
| HSD17B4   | hydroxysteroid 17-beta dehydrogenase 4                 |
| CYP2C8    | cytochrome P450 family 2 subfamily C member 8          |
| SLC45A4   | solute carrier family 45 member 4                      |
| CHRNA5    | cholinergic receptor nicotinic alpha 5 subunit         |
| PRPS1     | phosphoribosyl pyrophosphate synthetase 1              |
| SLC14A2   | solute carrier family 14 member 2                      |
| TNFRSF11A | TNF receptor superfamily member 11a                    |
| CHRNE     | cholinergic receptor nicotinic epsilon subunit         |
| PTPRD     | protein tyrosine phosphatase receptor type D           |
| DIXDC1    | DIX domain containing 1                                |
| SERPINB5  | serpin family B member 5                               |

|          |                                                                      |
|----------|----------------------------------------------------------------------|
| MAPK10   | mitogen-activated protein kinase 10                                  |
| TRPS1    | transcriptional repressor GATA binding 1                             |
| MAGI1    | membrane associated guanylate kinase, WW and PDZ domain containing 1 |
| SLC36A1  | solute carrier family 36 member 1                                    |
| MAP2K6   | mitogen-activated protein kinase kinase 6                            |
| PTPRS    | protein tyrosine phosphatase receptor type 5                         |
| ASIC2    | acid sensing ion channel subunit 2                                   |
| AKAP6    | A-kinase anchoring protein 6                                         |
| VIPR1    | vasoactive intestinal peptide receptor 1                             |
| PTDSS2   | phosphatidylserine synthase 2                                        |
| SORCS1   | sortilin related VPS10 domain containing receptor 1                  |
| ROCK2    | Rho associated coiled-coil containing protein kinase 2               |
| AMPH     | amphiphysin                                                          |
| ATR      | ATR serine/threonine kinase                                          |
| VAV3     | vav guanine nucleotide exchange factor 3                             |
| CSMD1    | CUB and Sushi multiple domains 1                                     |
| CNTNAP2  | contactin associated protein 2                                       |
| DAG1     | dystroglycan 1                                                       |
| CD4      | CD4 molecule                                                         |
| MUC1     | mucin 1, cell surface associated                                     |
| DAPK2    | death associated protein kinase 2                                    |
| ACVR1C   | activin A receptor type 1C                                           |
| BBS5     | Bardet-Biedl syndrome 5                                              |
| RAB3B    | RAB3B, member RAS oncogene family                                    |
| SLC7A7   | solute carrier family 7 member 7                                     |
| HTR6     | 5-hydroxytryptamine receptor 6                                       |
| GIP      | gastric inhibitory polypeptide                                       |
| QPCTL    | glutaminy-peptide cyclotransferase like                              |
| RNF6     | ring finger protein 6                                                |
| ARHGEF26 | Rho guanine nucleotide exchange factor 26                            |
| TRPM8    | transient receptor potential cation channel subfamily M member 8     |
| SGTA     | small glutamine rich tetratricopeptide repeat containing alpha       |
| LSAMP    | limbic system associated membrane protein                            |
| VNN1     | vanin 1                                                              |
| GABRB3   | gamma-aminobutyric acid type A receptor subunit beta3                |
| LRPPRC   | leucine rich pentatricopeptide repeat containing                     |
| TBC1D1   | TBC1 domain family member 1                                          |
| USP34    | ubiquitin specific peptidase 34                                      |
| INTS6    | integrator complex subunit 6                                         |
| MYOF     | myoferlin                                                            |
| BBS1     | Bardet-Biedl syndrome 1                                              |
| FRAS1    | Fraser extracellular matrix complex subunit 1                        |
| MYT1L    | myelin transcription factor 1 like                                   |
| C1QTNF1  | C1q and TNF related 1                                                |
| NR1D1    | nuclear receptor subfamily 1 group D member 1                        |
| ADAM19   | ADAM metallopeptidase domain 19                                      |
| GRIN2A   | glutamate ionotropic receptor NMDA type subunit 2A                   |
| ROBO1    | roundabout guidance receptor 1                                       |
| ROBO2    | roundabout guidance receptor 2                                       |
| GRM1     | glutamate metabotropic receptor 1                                    |

|         |                                                      |
|---------|------------------------------------------------------|
| IL2RA   | interleukin 2 receptor subunit alpha                 |
| ST3GAL3 | ST3 beta-galactoside alpha-2,3-sialyltransferase 3   |
| KMT2C   | lysine methyltransferase 2C                          |
| KCNH2   | potassium voltage-gated channel subfamily H member 2 |

## Dioxin

None

## Plastics

|         |                                                                      |
|---------|----------------------------------------------------------------------|
| MAGI2   | membrane associated guanylate kinase, WW and PDZ domain containing 2 |
| TCP1    | t-complex 1                                                          |
| TP63    | tumor protein p63                                                    |
| COL12A1 | collagen type XII alpha 1 chain                                      |
| FBXO11  | F-box protein 11                                                     |
| PDE4B   | phosphodiesterase 4B                                                 |
| INTS6   | integrator complex subunit 6                                         |
| MAPK10  | mitogen-activated protein kinase 10                                  |
| PGF     | placental growth factor                                              |
| GSTA3   | glutathione S-transferase alpha 3                                    |
| TGFA    | transforming growth factor alpha                                     |
| HS6ST3  | heparan sulfate 6-O-sulfotransferase 3                               |
| PPP2R5C | protein phosphatase 2 regulatory subunit B'gamma                     |
| SRGAP1  | SLIT-ROBO Rho GTPase activating protein 1                            |
| SOX5    | SRY-box transcription factor 5                                       |
| FAIM    | Fas apoptotic inhibitory molecule                                    |
| XAF1    | XIAP associated factor 1                                             |
| KCNC2   | potassium voltage-gated channel subfamily C member 2                 |
| TOLLIP  | toll interacting protein                                             |
| KRT16   | keratin 16                                                           |
| MSH6    | mutS homolog 6                                                       |
| MTREX   | Mtr4 exosome RNA helicase                                            |
| BMPR2   | bone morphogenetic protein receptor type 2                           |

## Pesticides

|         |                                                     |
|---------|-----------------------------------------------------|
| HORMAD2 | HORMA domain containing 2                           |
| ADARB1  | adenosine deaminase RNA specific B1                 |
| FDXR    | ferredoxin reductase                                |
| PTCH1   | patched 1                                           |
| CACNA1G | calcium voltage-gated channel subunit alpha1 G      |
| SACS    | sacsin molecular chaperone                          |
| CAV2    | caveolin 2                                          |
| CPT1B   | carnitine palmitoyltransferase 1B                   |
| PIEZO1  | piezo type mechanosensitive ion channel component 1 |
| APOH    | apolipoprotein H                                    |
| RUNX1   | RUNX family transcription factor 1                  |
| TP73    | tumor protein p73                                   |
| APP     | amyloid beta precursor protein                      |
| FAS     | Fas cell surface death receptor                     |
| ING1    | inhibitor of growth family member 1                 |
| FGF1    | fibroblast growth factor 1                          |

|          |                                                                  |
|----------|------------------------------------------------------------------|
| KITLG    | KIT ligand                                                       |
| SERPINH1 | serpin family H member 1                                         |
| SULT2A1  | sulfotransferase family 2A member 1                              |
| MYCBP2   | MYC binding protein 2                                            |
| FGF2     | fibroblast growth factor 2                                       |
| CDKAL1   | CDK5 regulatory subunit associated protein 1 like 1              |
| CHD7     | chromodomain helicase DNA binding protein 7                      |
| PMS2     | PMS1 homolog 2, mismatch repair system component                 |
| HS6ST3   | heparan sulfate 6-O-sulfotransferase 3                           |
| AQP3     | aquaporin 3 (Gill blood group)                                   |
| KYNU     | kynureninase                                                     |
| FGF13    | fibroblast growth factor 13                                      |
| GAS6     | growth arrest specific 6                                         |
| RNLS     | renalase, FAD dependent amine oxidase                            |
| ABLIM2   | actin binding LIM protein family member 2                        |
| FGFR2    | fibroblast growth factor receptor 2                              |
| MTREX    | Mtr4 exosome RNA helicase                                        |
| LGALS3   | galectin 3                                                       |
| LGALS4   | galectin 4                                                       |
| MITF     | melanocyte inducing transcription factor                         |
| TRPM3    | transient receptor potential cation channel subfamily M member 3 |
| TRIO     | trio Rho guanine nucleotide exchange factor                      |
| PLPP2    | phospholipid phosphatase 2                                       |
| CFD      | complement factor D                                              |
| COX7B2   | cytochrome c oxidase subunit 7B2                                 |
| ATAD2    | ATPase family AAA domain containing 2                            |
| PTPN13   | protein tyrosine phosphatase non-receptor type 13                |
| MLF1     | myeloid leukemia factor 1                                        |
| PTPN14   | protein tyrosine phosphatase non-receptor type 14                |
| DYSF     | dysferlin                                                        |
| MMD      | monocyte to macrophage differentiation associated                |
| SLC6A2   | solute carrier family 6 member 2                                 |
| P3H4     | prolyl 3-hydroxylase family member 4 (inactive)                  |
| CADPS    | calcium dependent secretion activator                            |
| ANLN     | anillin actin binding protein                                    |
| BID      | BH3 interacting domain death agonist                             |
| SLC12A8  | solute carrier family 12 member 8                                |
| ARHGEF11 | Rho guanine nucleotide exchange factor 11                        |
| ZDHHC14  | zinc finger DHHC-type palmitoyltransferase 14                    |
| ELANE    | elastase, neutrophil expressed                                   |
| ADAM17   | ADAM metallopeptidase domain 17                                  |
| CIDEA    | cell death inducing DFFA like effector a                         |
| BLVRA    | biliverdin reductase A                                           |
| PTPRK    | protein tyrosine phosphatase receptor type K                     |
| TMEM26   | transmembrane protein 26                                         |
| CERK     | ceramide kinase                                                  |
| TRIM16   | tripartite motif containing 16                                   |
| NCF1     | neutrophil cytosolic factor 1                                    |
| NELL2    | neural EGFL like 2                                               |
| SNAPIN   | SNAP associated protein                                          |

|          |                                                                                                |
|----------|------------------------------------------------------------------------------------------------|
| PTPRR    | protein tyrosine phosphatase receptor type R                                                   |
| KIF13A   | kinesin family member 13A                                                                      |
| GUCY2C   | guanylate cyclase 2C                                                                           |
| PRDM16   | PR/SET domain 16                                                                               |
| AKAP6    | A-kinase anchoring protein 6                                                                   |
| POU2F2   | POU class 2 homeobox 2                                                                         |
| TALDO1   | transaldolase 1                                                                                |
| FADS1    | fatty acid desaturase 1                                                                        |
| GPAT4    | glycerol-3-phosphate acyltransferase 4                                                         |
| PCP4     | Purkinje cell protein 4                                                                        |
| PCSK1    | proprotein convertase subtilisin/kexin type 1                                                  |
| RPS6     | ribosomal protein S6                                                                           |
| PCSK2    | proprotein convertase subtilisin/kexin type 2                                                  |
| ARRB2    | arrestin beta 2                                                                                |
| STK39    | serine/threonine kinase 39                                                                     |
| PLEKHA7  | pleckstrin homology domain containing A7                                                       |
| NFIA     | nuclear factor I A                                                                             |
| ARSB     | arylsulfatase B                                                                                |
| EIF3D    | eukaryotic translation initiation factor 3 subunit D                                           |
| SMARCAL1 | SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a like 1 |
| HEATR5B  | HEAT repeat containing 5B                                                                      |
| PROK2    | prokineticin 2                                                                                 |
| SRRM4    | serine/arginine repetitive matrix 4                                                            |
| NFE2L2   | nuclear factor, erythroid 2 like 2                                                             |
| LMO7     | LIM domain 7                                                                                   |
| RAPGEF4  | Rap guanine nucleotide exchange factor 4                                                       |
| PCYT2    | phosphate cytidyltransferase 2, ethanolamine                                                   |
| ABCC4    | ATP binding cassette subfamily C member 4                                                      |
| USP9X    | ubiquitin specific peptidase 9 X-linked                                                        |
| STAB1    | stabilin 1                                                                                     |
| ARVCF    | ARVCF delta catenin family member                                                              |
| GPAM     | glycerol-3-phosphate acyltransferase, mitochondrial                                            |
| TBX15    | T-box transcription factor 15                                                                  |
| PDE4B    | phosphodiesterase 4B                                                                           |
| SLURP1   | secreted LY6/PLAUR domain containing 1                                                         |
| LOX      | lysyl oxidase                                                                                  |
| CSPG4    | chondroitin sulfate proteoglycan 4                                                             |
| MSRB3    | methionine sulfoxide reductase B3                                                              |
| GHR      | growth hormone receptor                                                                        |
| SLC38A1  | solute carrier family 38 member 1                                                              |
| EPAS1    | endothelial PAS domain protein 1                                                               |
| AGTR1    | angiotensin II receptor type 1                                                                 |
| TCF4     | transcription factor 4                                                                         |
| BICC1    | BicC family RNA binding protein 1                                                              |
| SLCO2A1  | solute carrier organic anion transporter family member 2A1                                     |
| ABCB1    | ATP binding cassette subfamily B member 1                                                      |
| ZFP36L1  | ZFP36 ring finger protein like 1                                                               |
| ITK      | IL2 inducible T cell kinase                                                                    |
| TNFSF4   | TNF superfamily member 4                                                                       |
| DKC1     | dyskerin pseudouridine synthase 1                                                              |

|           |                                                                                                   |
|-----------|---------------------------------------------------------------------------------------------------|
| KLHL9     | kelch like family member 9                                                                        |
| TCF7L2    | transcription factor 7 like 2                                                                     |
| KCTD15    | potassium channel tetramerization domain containing 15                                            |
| MRC1      | mannose receptor C-type 1                                                                         |
| CLDN2     | claudin 2                                                                                         |
| EPHA3     | EPH receptor A3                                                                                   |
| PRDM6     | PR/SET domain 6                                                                                   |
| SLIT1     | slit guidance ligand 1                                                                            |
| CIT       | citron rho-interacting serine/threonine kinase                                                    |
| LRP5      | LDL receptor related protein 5                                                                    |
| EPHB1     | EPH receptor B1                                                                                   |
| m_Svs2    | semenogelin 1                                                                                     |
| NKAIN2    | sodium/potassium transporting ATPase interacting 2                                                |
| TRPM8     | transient receptor potential cation channel subfamily M member 8                                  |
| RABGAP1   | RAB GTPase activating protein 1                                                                   |
| LSAMP     | limbic system associated membrane protein                                                         |
| JAK1      | Janus kinase 1                                                                                    |
| SMARCA4   | SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 4 |
| EPOR      | erythropoietin receptor                                                                           |
| PYCARD    | PYD and CARD domain containing                                                                    |
| IFNL1     | interferon lambda 1                                                                               |
| UNC5B     | unc-5 netrin receptor B                                                                           |
| GLDC      | glycine decarboxylase                                                                             |
| ARID5B    | AT-rich interaction domain 5B                                                                     |
| SCARB2    | scavenger receptor class B member 2                                                               |
| TMEFF2    | transmembrane protein with EGF like and two follistatin like domains 2                            |
| SIX2      | SIX homeobox 2                                                                                    |
| AKT2      | AKT serine/threonine kinase 2                                                                     |
| IDO1      | indoleamine 2,3-dioxygenase 1                                                                     |
| NOS1      | nitric oxide synthase 1                                                                           |
| TFAP2D    | transcription factor AP-2 delta                                                                   |
| ALAS1     | 5'-aminolevulinate synthase 1                                                                     |
| SLC30A3   | solute carrier family 30 member 3                                                                 |
| GLP1R     | glucagon like peptide 1 receptor                                                                  |
| EPB41L3   | erythrocyte membrane protein band 4.1 like 3                                                      |
| ALDH1A1   | aldehyde dehydrogenase 1 family member A1                                                         |
| UCP1      | uncoupling protein 1                                                                              |
| ALDH2     | aldehyde dehydrogenase 2 family member                                                            |
| SCN5A     | sodium voltage-gated channel alpha subunit 5                                                      |
| m_Scgb1b2 | secretoglobin, family 1B, member 2                                                                |
| PRDM2     | PR/SET domain 2                                                                                   |
| CAPN9     | calpain 9                                                                                         |
| B3GAT1    | beta-1,3-glucuronyltransferase 1                                                                  |
| MIR200B   | microRNA 200b                                                                                     |
| IDE       | insulin degrading enzyme                                                                          |
| MEX3D     | mex-3 RNA binding family member D                                                                 |
| RLN3      | relaxin 3                                                                                         |
| SOX6      | SRY-box transcription factor 6                                                                    |
| MIR429    | microRNA 429                                                                                      |
| C4A       | complement C4A (Rodgers blood group)                                                              |

|           |                                                             |
|-----------|-------------------------------------------------------------|
| C4B       | complement C4B (Chido blood group)                          |
| COBLL1    | cordon-bleu WH2 repeat protein like 1                       |
| MSRA      | methionine sulfoxide reductase A                            |
| RARB      | retinoic acid receptor beta                                 |
| KCNJ5     | potassium inwardly rectifying channel subfamily J member 5  |
| NRG1      | neuregulin 1                                                |
| SNAP47    | synaptosome associated protein 47                           |
| TDO2      | tryptophan 2,3-dioxygenase                                  |
| PRF1      | perforin 1                                                  |
| SIRT7     | sirtuin 7                                                   |
| ANKS1B    | ankyrin repeat and sterile alpha motif domain containing 1B |
| TEAD4     | TEA domain transcription factor 4                           |
| BTG2      | BTG anti-proliferation factor 2                             |
| MT1A      | metallothionein 1A                                          |
| MT1B      | metallothionein 1B                                          |
| CMIP      | c-Maf inducing protein                                      |
| NR1H4     | nuclear receptor subfamily 1 group H member 4               |
| MAD1L1    | mitotic arrest deficient 1 like 1                           |
| TECTA     | tectorin alpha                                              |
| NEGR1     | neuronal growth regulator 1                                 |
| MT1G      | metallothionein 1G                                          |
| NISCH     | nischarin                                                   |
| KCNK2     | potassium two pore domain channel subfamily K member 2      |
| TUBA1A    | tubulin alpha 1a                                            |
| IQGAP2    | IQ motif containing GTPase activating protein 2             |
| MT1X      | metallothionein 1X                                          |
| RNU1-1    | RNA, U1 small nuclear 1                                     |
| POC5      | POC5 centriolar protein                                     |
| m_Gm26504 | predicted gene, 26504                                       |
| NCOR2     | nuclear receptor corepressor 2                              |
| DPT       | dermatopontin                                               |
| DPYD      | dihydropyrimidine dehydrogenase                             |
| CHEK2     | checkpoint kinase 2                                         |
| HLA-A     | major histocompatibility complex, class I, A                |
| SOX10     | SRY-box transcription factor 10                             |
| SEC31A    | SEC31 homolog A, COPII coat complex component               |
| ALDH7A1   | aldehyde dehydrogenase 7 family member A1                   |
| ABCA1     | ATP binding cassette subfamily A member 1                   |
| PRKCA     | protein kinase C alpha                                      |
| ABCB4     | ATP binding cassette subfamily B member 4                   |
| PRKCB     | protein kinase C beta                                       |
| CLMP      | CXADR like membrane protein                                 |
| NAALAD2   | N-acetylated alpha-linked acidic dipeptidase 2              |
| CYP2B6    | cytochrome P450 family 2 subfamily B member 6               |
| PRKCH     | protein kinase C eta                                        |
| CYP2C19   | cytochrome P450 family 2 subfamily C member 19              |
| MBOAT7    | membrane bound O-acyltransferase domain containing 7        |
| PHF2      | PHD finger protein 2                                        |
| PRKCQ     | protein kinase C theta                                      |
| PRKCZ     | protein kinase C zeta                                       |

|          |                                                                       |
|----------|-----------------------------------------------------------------------|
| ABL2     | ABL proto-oncogene 2, non-receptor tyrosine kinase                    |
| CRIM1    | cysteine rich transmembrane BMP regulator 1                           |
| CDH2     | cadherin 2                                                            |
| IGF1R    | insulin like growth factor 1 receptor                                 |
| FSHR     | follicle stimulating hormone receptor                                 |
| VAV2     | vav guanine nucleotide exchange factor 2                              |
| CSPP1    | centrosome and spindle pole associated protein 1                      |
| CXCL16   | C-X-C motif chemokine ligand 16                                       |
| IGF2R    | insulin like growth factor 2 receptor                                 |
| CCL22    | C-C motif chemokine ligand 22                                         |
| TFF3     | trefoil factor 3                                                      |
| MTRR     | 5-methyltetrahydrofolate-homocysteine methyltransferase reductase     |
| RALY     | RALY heterogeneous nuclear ribonucleoprotein                          |
| NEDD4L   | NEDD4 like E3 ubiquitin protein ligase                                |
| AMFR     | autocrine motility factor receptor                                    |
| CDH13    | cadherin 13                                                           |
| MAP2K6   | mitogen-activated protein kinase kinase 6                             |
| TGFA     | transforming growth factor alpha                                      |
| SRGAP1   | SLIT-ROBO Rho GTPase activating protein 1                             |
| TGFB1    | transforming growth factor beta 1                                     |
| MKX      | mohawk homeobox                                                       |
| SDC4     | syndecan 4                                                            |
| RFX4     | regulatory factor X4                                                  |
| SPTB     | spectrin beta, erythrocytic                                           |
| TNFAIP8  | TNF alpha induced protein 8                                           |
| COL5A1   | collagen type V alpha 1 chain                                         |
| KLRB1    | killer cell lectin like receptor B1                                   |
| LRRK2    | leucine rich repeat kinase 2                                          |
| PRNP     | prion protein                                                         |
| SREBF2   | sterol regulatory element binding transcription factor 2              |
| FAM20A   | FAM20A golgi associated secretory pathway pseudokinase                |
| RGS12    | regulator of G protein signaling 12                                   |
| KLC1     | kinesin light chain 1                                                 |
| PIK3CB   | phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit beta |
| KDM4A    | lysine demethylase 4A                                                 |
| KLF12    | Kruppel like factor 12                                                |
| SEMA3F   | semaphorin 3F                                                         |
| PDGFC    | platelet derived growth factor C                                      |
| SEMG1    | semenogelin 1                                                         |
| PSD3     | pleckstrin and Sec7 domain containing 3                               |
| F13A1    | coagulation factor XIII A chain                                       |
| PDLIM7   | PDZ and LIM domain 7                                                  |
| ARHGEF12 | Rho guanine nucleotide exchange factor 12                             |
| MAPKAPK2 | MAPK activated protein kinase 2                                       |
| ANK2     | ankyrin 2                                                             |
| TLR9     | toll like receptor 9                                                  |
| AXL      | AXL receptor tyrosine kinase                                          |
| PARD3    | par-3 family cell polarity regulator                                  |
| COL18A1  | collagen type XVIII alpha 1 chain                                     |
| CRTC1    | CREB regulated transcription coactivator 1                            |



|          |                                                                  |
|----------|------------------------------------------------------------------|
| NUAK2    | NUAK family kinase 2                                             |
| GHRL     | ghrelin and obestatin prepropeptide                              |
| FANCA    | FA complementation group A                                       |
| GPC6     | glypican 6                                                       |
| HNRNPL   | heterogeneous nuclear ribonucleoprotein L                        |
| CERT1    | ceramide transporter 1                                           |
| THRB     | thyroid hormone receptor beta                                    |
| HASPIN   | histone H3 associated protein kinase                             |
| SLCO5A1  | solute carrier organic anion transporter family member 5A1       |
| SIK3     | SIK family kinase 3                                              |
| PRTN3    | proteinase 3                                                     |
| ARHGAP21 | Rho GTPase activating protein 21                                 |
| MED13L   | mediator complex subunit 13L                                     |
| ALDH1A2  | aldehyde dehydrogenase 1 family member A2                        |
| PKP1     | plakophilin 1                                                    |
| PSEN1    | presenilin 1                                                     |
| IL1RAP   | interleukin 1 receptor accessory protein                         |
| ANXA6    | annexin A6                                                       |
| PLA2G2A  | phospholipase A2 group IIA                                       |
| ANXA11   | annexin A11                                                      |
| CD200R1  | CD200 receptor 1                                                 |
| PER3     | period circadian regulator 3                                     |
| ECH1     | enoyl-CoA hydratase 1                                            |
| SPRED2   | sprouty related EVH1 domain containing 2                         |
| FBLN1    | fibulin 1                                                        |
| TRPM7    | transient receptor potential cation channel subfamily M member 7 |
| PLA2G5   | phospholipase A2 group V                                         |
| DKK2     | dickkopf WNT signaling pathway inhibitor 2                       |
| FASN     | fatty acid synthase                                              |
| KSR2     | kinase suppressor of ras 2                                       |
| ORM1     | orosomucoid 1                                                    |
| HHAT     | hedgehog acyltransferase                                         |
| UNC13B   | unc-13 homolog B                                                 |
| CARM1    | coactivator associated arginine methyltransferase 1              |
| ADAM12   | ADAM metalloproteinase domain 12                                 |
| MYO6     | myosin VI                                                        |
| TSHZ3    | teashirt zinc finger homeobox 3                                  |
| CDCA5    | cell division cycle associated 5                                 |
| XBP1     | X-box binding protein 1                                          |
| MLYCD    | malonyl-CoA decarboxylase                                        |
| MSI2     | musashi RNA binding protein 2                                    |
| SHROOM3  | shroom family member 3                                           |
| IL20RA   | interleukin 20 receptor subunit alpha                            |
| CLEC3B   | C-type lectin domain family 3 member B                           |
| PPP1R12A | protein phosphatase 1 regulatory subunit 12A                     |
| IL20     | interleukin 20                                                   |
| NPC1L1   | NPC1 like intracellular cholesterol transporter 1                |
| TARDBP   | TAR DNA binding protein                                          |
| MYT1L    | myelin transcription factor 1 like                               |
| P2RX3    | purinergic receptor P2X 3                                        |

|           |                                       |
|-----------|---------------------------------------|
| G3BP1     | G3BP stress granule assembly factor 1 |
| ROBO1     | roundabout guidance receptor 1        |
| EXOC2     | exocyst complex component 2           |
| PSMD9     | proteasome 26S subunit, non-ATPase 9  |
| SF3B1     | splicing factor 3b subunit 1          |
| PDZD2     | PDZ domain containing 2               |
| RORA      | RAR related orphan receptor A         |
| TNS1      | tensin 1                              |
| IL15RA    | interleukin 15 receptor subunit alpha |
| NUP107    | nucleoporin 107                       |
| RHBDF2    | rhomboid 5 homolog 2                  |
| SLC9A3R1  | SLC9A3 regulator 1                    |
| NRXN3     | neurexin 3                            |
| ADAM10    | ADAM metalloproteinase domain 10      |
| TPH2      | tryptophan hydroxylase 2              |
| TNFAIP8L2 | TNF alpha induced protein 8 like 2    |

### **Glyphosate**

|          |                                                          |
|----------|----------------------------------------------------------|
| MIR21    | microRNA 21                                              |
| SREBF2   | sterol regulatory element binding transcription factor 2 |
| PPARGC1B | PPARG coactivator 1 beta                                 |
| FLNB     | filamin B                                                |
| ZFP1     | ZFP1 zinc finger protein                                 |
| PRMT7    | protein arginine methyltransferase 7                     |
| DNMT3A   | DNA methyltransferase 3 alpha                            |
| m_Mir21a | microRNA 21a                                             |
| SLC15A3  | solute carrier family 15 member 3                        |
| ANK2     | ankyrin 2                                                |
| IPMK     | inositol polyphosphate multikinase                       |
| PDE4A    | phosphodiesterase 4A                                     |
| PARD3    | par-3 family cell polarity regulator                     |
| RELN     | reelin                                                   |
| CERS6    | ceramide synthase 6                                      |
| MYCBP2   | MYC binding protein 2                                    |
| ITGB3    | integrin subunit beta 3                                  |
| VWA8     | von Willebrand factor A domain containing 8              |
| ZBTB16   | zinc finger and BTB domain containing 16                 |
| SORBS1   | sorbin and SH3 domain containing 1                       |
| DMTN     | dematin actin binding protein                            |
| AQP7     | aquaporin 7                                              |
| MIR33A   | microRNA 33a                                             |
| FAM71F1  | family with sequence similarity 71 member F1             |
| AQP9     | aquaporin 9                                              |
| TRAF3    | TNF receptor associated factor 3                         |
| MRTFA    | myocardin related transcription factor A                 |
| SLIT1    | slit guidance ligand 1                                   |
| G3BP2    | G3BP stress granule assembly factor 2                    |
| EPHB1    | EPH receptor B1                                          |
| ARHGEF39 | Rho guanine nucleotide exchange factor 39                |
| HELZ2    | helicase with zinc finger 2                              |

|           |                                                                  |
|-----------|------------------------------------------------------------------|
| TDRD1     | tudor domain containing 1                                        |
| ATP10D    | ATPase phospholipid transporting 10D (putative)                  |
| SLC2A9    | solute carrier family 2 member 9                                 |
| FBXW8     | F-box and WD repeat domain containing 8                          |
| MACROH2A1 | macroH2A.1 histone                                               |
| RELA      | RELA proto-oncogene, NF-kB subunit                               |
| PYCARD    | PYD and CARD domain containing                                   |
| RBFOX1    | RNA binding fox-1 homolog 1                                      |
| DMD       | dystrophin                                                       |
| F11R      | F11 receptor                                                     |
| SLC12A8   | solute carrier family 12 member 8                                |
| GRIA1     | glutamate ionotropic receptor AMPA type subunit 1                |
| TRPM2     | transient receptor potential cation channel subfamily M member 2 |
| CDC37     | cell division cycle 37, HSP90 cochaperone                        |
| SPOCK1    | SPARC (osteonectin), cwcv and kazal like domains proteoglycan 1  |
| KAT5      | lysine acetyltransferase 5                                       |
| NELL2     | neural EGFL like 2                                               |
| TXNIP     | thioredoxin interacting protein                                  |
| LGR4      | leucine rich repeat containing G protein-coupled receptor 4      |
| KIF13A    | kinesin family member 13A                                        |
| FGF17     | fibroblast growth factor 17                                      |
| AKAP6     | A-kinase anchoring protein 6                                     |
| UCHL3     | ubiquitin C-terminal hydrolase L3                                |
| PHLPP2    | PH domain and leucine rich repeat protein phosphatase 2          |
| CD274     | CD274 molecule                                                   |
| TNS1      | tensin 1                                                         |

### **Methoxychlor**

|          |                                                            |
|----------|------------------------------------------------------------|
| PEX19    | peroxisomal biogenesis factor 19                           |
| CD1D     | CD1d molecule                                              |
| MSRA     | methionine sulfoxide reductase A                           |
| TOR1A    | torsin family 1 member A                                   |
| SCLY     | selenocysteine lyase                                       |
| CDON     | cell adhesion associated, oncogene regulated               |
| PDE11A   | phosphodiesterase 11A                                      |
| TM6SF2   | transmembrane 6 superfamily member 2                       |
| RAPGEF4  | Rap guanine nucleotide exchange factor 4                   |
| TNFSF15  | TNF superfamily member 15                                  |
| SLC25A15 | solute carrier family 25 member 15                         |
| TEAD4    | TEA domain transcription factor 4                          |
| DHODH    | dihydroorotate dehydrogenase (quinone)                     |
| MXI1     | MAX interactor 1, dimerization protein                     |
| UBE3C    | ubiquitin protein ligase E3C                               |
| MAD1L1   | mitotic arrest deficient 1 like 1                          |
| PARD3    | par-3 family cell polarity regulator                       |
| COL18A1  | collagen type XVIII alpha 1 chain                          |
| RELN     | reelin                                                     |
| TENT5B   | terminal nucleotidyltransferase 5B                         |
| SULT2A1  | sulfotransferase family 2A member 1                        |
| SLCO2B1  | solute carrier organic anion transporter family member 2B1 |

|         |                                                        |
|---------|--------------------------------------------------------|
| MYCBP2  | MYC binding protein 2                                  |
| RNU1-1  | RNA, U1 small nuclear 1                                |
| GSTA2   | glutathione S-transferase alpha 2                      |
| PIP5K1A | phosphatidylinositol-4-phosphate 5-kinase type 1 alpha |
| GLCCI1  | glucocorticoid induced 1                               |
| MIR30D  | microRNA 30d                                           |
| GABPA   | GA binding protein transcription factor subunit alpha  |
| FBXL7   | F-box and leucine rich repeat protein 7                |
| ITPR1   | inositol 1,4,5-trisphosphate receptor type 1           |
| NKAIN2  | sodium/potassium transporting ATPase interacting 2     |
| FASN    | fatty acid synthase                                    |
| PAWR    | pro-apoptotic WT1 regulator                            |
| RDH16   | retinol dehydrogenase 16                               |
| PARP1   | poly(ADP-ribose) polymerase 1                          |
| LSAMP   | limbic system associated membrane protein              |
| PTPN13  | protein tyrosine phosphatase non-receptor type 13      |
| KIRREL1 | kirre like nephrin family adhesion molecule 1          |
| SLC14A2 | solute carrier family 14 member 2                      |
| LRPPRC  | leucine rich pentatricopeptide repeat containing       |
| MAPK4   | mitogen-activated protein kinase 4                     |
| GOT1    | glutamic-oxaloacetic transaminase 1                    |
| MTTP    | microsomal triglyceride transfer protein               |
| MAPK6   | mitogen-activated protein kinase 6                     |
| PLG     | plasminogen                                            |
| IRF6    | interferon regulatory factor 6                         |
| NR6A1   | nuclear receptor subfamily 6 group A member 1          |
| NELL2   | neural EGFL like 2                                     |
| PARP2   | poly(ADP-ribose) polymerase 2                          |
| KIF13A  | kinesin family member 13A                              |
| ASIC2   | acid sensing ion channel subunit 2                     |
| STK4    | serine/threonine kinase 4                              |
| COL4A3  | collagen type IV alpha 3 chain                         |
| CPE     | carboxypeptidase E                                     |
| NOTCH1  | notch receptor 1                                       |
| ROS1    | ROS proto-oncogene 1, receptor tyrosine kinase         |
| NRP2    | neuropilin 2                                           |
| NRXN3   | neurexin 3                                             |
| IDE     | insulin degrading enzyme                               |
| IGF2BP2 | insulin like growth factor 2 mRNA binding protein 2    |

|                 |                                                                                                   |
|-----------------|---------------------------------------------------------------------------------------------------|
| <b>Atrazine</b> |                                                                                                   |
| CDK9            | cyclin dependent kinase 9                                                                         |
| STK39           | serine/threonine kinase 39                                                                        |
| SHANK2          | SH3 and multiple ankyrin repeat domains 2                                                         |
| SMARCA5         | SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 5 |
| KLF8            | Kruppel like factor 8                                                                             |
| DNMT3B          | DNA methyltransferase 3 beta                                                                      |
| FLT3            | fms related receptor tyrosine kinase 3                                                            |
| DYRK1B          | dual specificity tyrosine phosphorylation regulated kinase 1B                                     |
| ANKS1B          | ankyrin repeat and sterile alpha motif domain containing 1B                                       |

|          |                                                                              |
|----------|------------------------------------------------------------------------------|
| GKN1     | gastrokine 1                                                                 |
| TTK      | TTK protein kinase                                                           |
| SULT2A1  | sulfotransferase family 2A member 1                                          |
| MYCBP2   | MYC binding protein 2                                                        |
| KCNMA1   | potassium calcium-activated channel subfamily M alpha 1                      |
| CBX7     | chromobox 7                                                                  |
| RNU1-1   | RNA, U1 small nuclear 1                                                      |
| GNAQ     | G protein subunit alpha q                                                    |
| THRB     | thyroid hormone receptor beta                                                |
| HTR5A    | 5-hydroxytryptamine receptor 5A                                              |
| HSD3B1   | hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase 1 |
| SEC31A   | SEC31 homolog A, COPII coat complex component                                |
| GJA5     | gap junction protein alpha 5                                                 |
| PTPN11   | protein tyrosine phosphatase non-receptor type 11                            |
| ABCA1    | ATP binding cassette subfamily A member 1                                    |
| KRT16    | keratin 16                                                                   |
| AKT3     | AKT serine/threonine kinase 3                                                |
| BMPER    | BMP binding endothelial regulator                                            |
| FRS2     | fibroblast growth factor receptor substrate 2                                |
| AMBRA1   | autophagy and beclin 1 regulator 1                                           |
| SH3PXD2B | SH3 and PX domains 2B                                                        |
| PRKD1    | protein kinase D1                                                            |
| JARID2   | jumonji and AT-rich interaction domain containing 2                          |
| PLEKHA2  | pleckstrin homology domain containing A2                                     |
| FBN1     | fibrillin 1                                                                  |
| NXN      | nucleoredoxin                                                                |
| HDAC9    | histone deacetylase 9                                                        |
| GIT1     | GIT ArfGAP 1                                                                 |
| SLC25A24 | solute carrier family 25 member 24                                           |
| GPR158   | G protein-coupled receptor 158                                               |
| CDH10    | cadherin 10                                                                  |
| PPM1L    | protein phosphatase, Mg <sup>2+</sup> /Mn <sup>2+</sup> dependent 1L         |
| RPTOR    | regulatory associated protein of MTOR complex 1                              |
| ARID1B   | AT-rich interaction domain 1B                                                |
| CACNA1C  | calcium voltage-gated channel subunit alpha1 C                               |
| FAIM     | Fas apoptotic inhibitory molecule                                            |
| AKR1C3   | aldo-keto reductase family 1 member C3                                       |
| MSH3     | mutS homolog 3                                                               |
| UBD      | ubiquitin D                                                                  |
| SORCS1   | sortilin related VPS10 domain containing receptor 1                          |
| PDZD2    | PDZ domain containing 2                                                      |
| MBD1     | methyl-CpG binding domain protein 1                                          |
| NRXN3    | neurexin 3                                                                   |
| APOBEC3B | apolipoprotein B mRNA editing enzyme catalytic subunit 3B                    |
| OSBPL3   | oxysterol binding protein like 3                                             |
| MBL2     | mannose binding lectin 2                                                     |

### Jet Fuel

|      |                                                            |
|------|------------------------------------------------------------|
| PROC | protein C, inactivator of coagulation factors Va and VIIIa |
| ERN1 | endoplasmic reticulum to nucleus signaling 1               |

|          |                                                                       |
|----------|-----------------------------------------------------------------------|
| CFHR1    | complement factor H related 1                                         |
| MYO18A   | myosin XVIII A                                                        |
| PDGFD    | platelet derived growth factor D                                      |
| NCEH1    | neutral cholesterol ester hydrolase 1                                 |
| ANKS1B   | ankyrin repeat and sterile alpha motif domain containing 1B           |
| RAPGEF4  | Rap guanine nucleotide exchange factor 4                              |
| SMIM31   | small integral membrane protein 31                                    |
| MCF2L    | MCF.2 cell line derived transforming sequence like                    |
| PMS1     | PMS1 homolog 1, mismatch repair system component                      |
| NR1H4    | nuclear receptor subfamily 1 group H member 4                         |
| MGAT5    | alpha-1,6-mannosylglycoprotein 6-beta-N-acetylglucosaminyltransferase |
| DNER     | delta/notch like EGF repeat containing                                |
| HINT1    | histidine triad nucleotide binding protein 1                          |
| MYCBP2   | MYC binding protein 2                                                 |
| PELI1    | pellino E3 ubiquitin protein ligase 1                                 |
| RNU1-1   | RNA, U1 small nuclear 1                                               |
| CDKAL1   | CDK5 regulatory subunit associated protein 1 like 1                   |
| MCPH1    | microcephalin 1                                                       |
| HTR6     | 5-hydroxytryptamine receptor 6                                        |
| KANK1    | KN motif and ankyrin repeat domains 1                                 |
| PITX3    | paired like homeodomain 3                                             |
| MAGEA4   | MAGE family member A4                                                 |
| IL2RB    | interleukin 2 receptor subunit beta                                   |
| EPHB1    | EPH receptor B1                                                       |
| CRY1     | cryptochrome circadian regulator 1                                    |
| DKK2     | dickkopf WNT signaling pathway inhibitor 2                            |
| EPHB2    | EPH receptor B2                                                       |
| ERN2     | endoplasmic reticulum to nucleus signaling 2                          |
| PRKCI    | protein kinase C iota                                                 |
| ENPP1    | ectonucleotide pyrophosphatase/phosphodiesterase 1                    |
| TRIP13   | thyroid hormone receptor interactor 13                                |
| HBB      | hemoglobin subunit beta                                               |
| TRPA1    | transient receptor potential cation channel subfamily A member 1      |
| SUCLG2   | succinate-CoA ligase GDP-forming subunit beta                         |
| ADAM12   | ADAM metalloproteinase domain 12                                      |
| PBX3     | PBX homeobox 3                                                        |
| ICAM2    | intercellular adhesion molecule 2                                     |
| SLC6A6   | solute carrier family 6 member 6                                      |
| TPX2     | TPX2 microtubule nucleation factor                                    |
| APC      | APC regulator of WNT signaling pathway                                |
| GSTP1    | glutathione S-transferase pi 1                                        |
| SATB2    | SATB homeobox 2                                                       |
| EIF2AK3  | eukaryotic translation initiation factor 2 alpha kinase 3             |
| SNAP29   | synaptosome associated protein 29                                     |
| IFIH1    | interferon induced with helicase C domain 1                           |
| VCL      | vinculin                                                              |
| SLC9A3R2 | SLC9A3 regulator 2                                                    |
| MAGI1    | membrane associated guanylate kinase, WW and PDZ domain containing 1  |
| DAB2IP   | DAB2 interacting protein                                              |
| DUSP1    | dual specificity phosphatase 1                                        |

|        |                                                        |
|--------|--------------------------------------------------------|
| KIF13A | kinesin family member 13A                              |
| PTX3   | pentraxin 3                                            |
| TGFBR3 | transforming growth factor beta receptor 3             |
| LRIG3  | leucine rich repeats and immunoglobulin like domains 3 |
| CUL3   | cullin 3                                               |
| TAFA5  | TAFA chemokine like family member 5                    |
| UBE2S  | ubiquitin conjugating enzyme E2 S                      |
| TRIM28 | tripartite motif containing 28                         |
| TNIK   | TRAF2 and NCK interacting kinase                       |
| ATRNL1 | attractin                                              |
| NRXN3  | neurexin 3                                             |
| STX8   | syntaxin 8                                             |