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| Supplemental Table 1. Top genes associated with meat and non-meat networks from IPA |
| **Top Diseases and Functions** | **Score** | **Focus Molecules** | **Molecules in Network** |
| **Non-meat Network Results** |   |   |   |
| Hematological System Development and Function, Nervous System Development and Function, Tissue Morphology | 31 | 15 | APP, Atp5k, C2orf27A/C2orf27B, CFTR, CHRAC1, Ck2, DDX53, EED, EGFLAM, FAM127B, FAT2, FGF1, FN1, GML, GRIN1, HDAC2, HIST1H2BN, HTT, IL6, IL1B, LSAMP, MPV17L, NEGR1, NETO1, NPL, PEG10, Rbfox3, RNF2, RPS4Y1, SLC25A25, SLC6A5, SNX10, TP53, WDR89, ZFY |
| Connective Tissue Disorders, Organismal Injury and Abnormalities, Cardiovascular System Development and Function | 29 | 14 | Ap1, C3, C1q, C1R, C1S, COL1A1, COL1A2, COL4A2, collagen, Collagen Alpha1, Collagen type I, Collagen type IV, Collagen(s), Complement component 1, DCN, DOCK3, ERK1/2, Growth hormone, IGHG1, Igm, IL1, Immunoglobulin, Integrin, Laminin, LDL, Mmp, NEDD9, Pdgf (complex), PDGF BB, Smad, SPARC, Tgf beta, THY1, TIMP1, TIMP2 |
| Cellular Compromise, Cellular Function and Maintenance, Protein Degradation | 21 | 11 | 26s Proteasome, ADCY, Alpha catenin, AURKA, CD3, Cg, Creb, FSH, Histone h3, Histone h4, HSP, Hsp70, Hsp90, HSP90B1, HSPA5, HSPA9, Igh (family), IL12 (complex), KRT1, Lh, MAP2K1/2, Mek, MHC Class I (complex), MUC5AC, NCL, NFkB (complex), NKD1, NOS1, Nr1h, NR3C2, PI3K (family), Pro-inflammatory Cytokine, RAB31, Tnf receptor, Ubiquitin |
| **Meat Network Results** |  |  |  |
| Cancer, Organismal Injury and Abnormalities, Tumor Morphology | 31 | 15 | ABCC3, Ap1, C3AR1, CD151, CLDN4, COL1A1, Collagen type I, Collagen(s), DVL1, EMB, ERK, ERK1/2, FURIN, HMGN2, HSPG2, Ige, IL1, IL12 (complex), Integrin, Laminin, LDL, LTBR, Mapk, MST1R, MUC5AC, P38 MAPK, PI3K (complex), Pka, Pkc(s), PXN, Rock, SEMA4B, Tgf beta, Tnf (family), Vegf |
| Cellular Function and Maintenance, Cellular Movement, Cell Death and Survival | 31 | 15 | ACTN1, ADAMTS3, ANP32A, ATP11C, CMA1, COL12A1, COL7A1, CTNNB1, DDR2, ELAVL1, EML2, EPM2AIP1, EPS8L3, FAM129B, FAM83H, FN1, HELZ, HELZ2, HMGB2, KIF21B, KITLG, KPNA6, LGALS9, MICALL2, MPEG1, MRPS28, NTRK1, PGRMC2, PI4K2B, RRBP1, TAF1C, TGFB1, TLR4, TRAM2, TTYH3 |
| Drug Metabolism, Molecular Transport, Small Molecule Biochemistry | 26 | 13 | A1BG, ADAMTS6, ADAMTS7, ADAMTS9, ADAMTS13, ALB, AMN, APOC4, APP, BCKDHA, BCKDHB, BCKDK, CDC37, CDKN1A, CUBN, DNAH14, FOXJ2, GGCT, GMPPB, IKBKB, KCTD13, Metalloprotease, mir-137, NECAP1, NECAP2, PNPLA1, PUSL1, RASSF7, RNF123, SIPA1, STK36, TCN2, TNF, TXNDC17, VLDL |