Figure 1

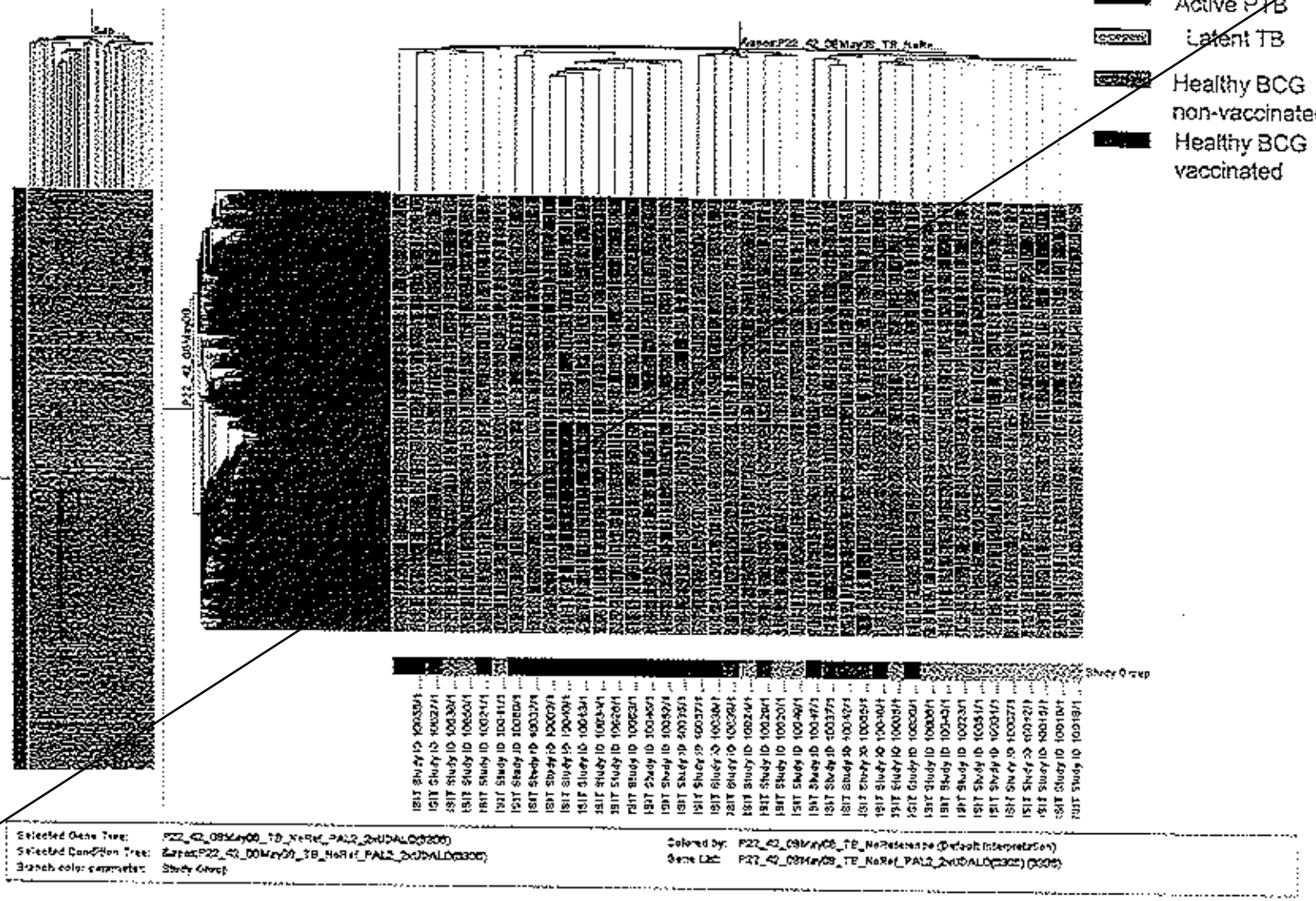

Active PTB
Latent TB
Healthy BCG non-vaccinated
Healthy BCG vaccinated
Study Group

Figure 2

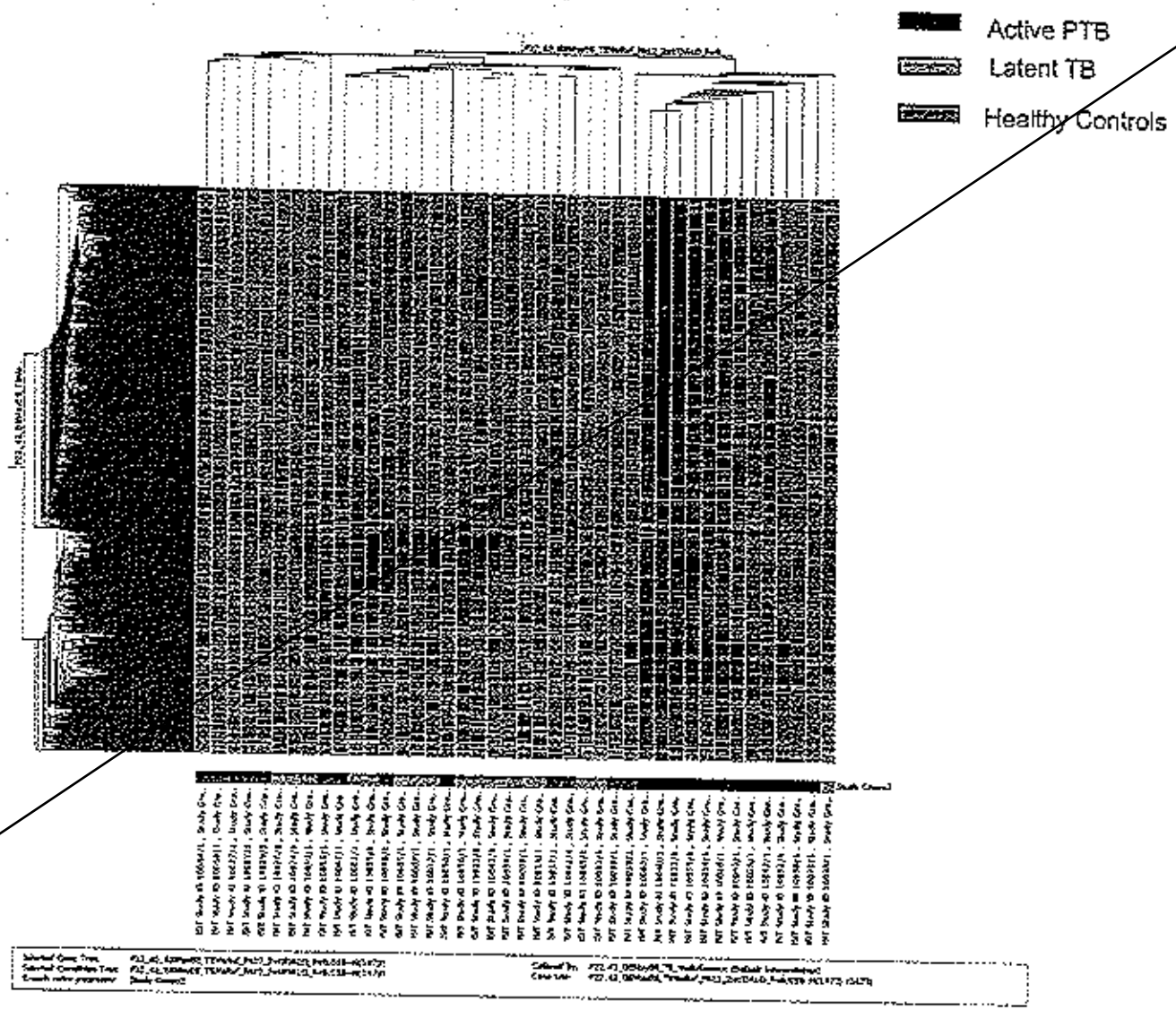


Figure 3A

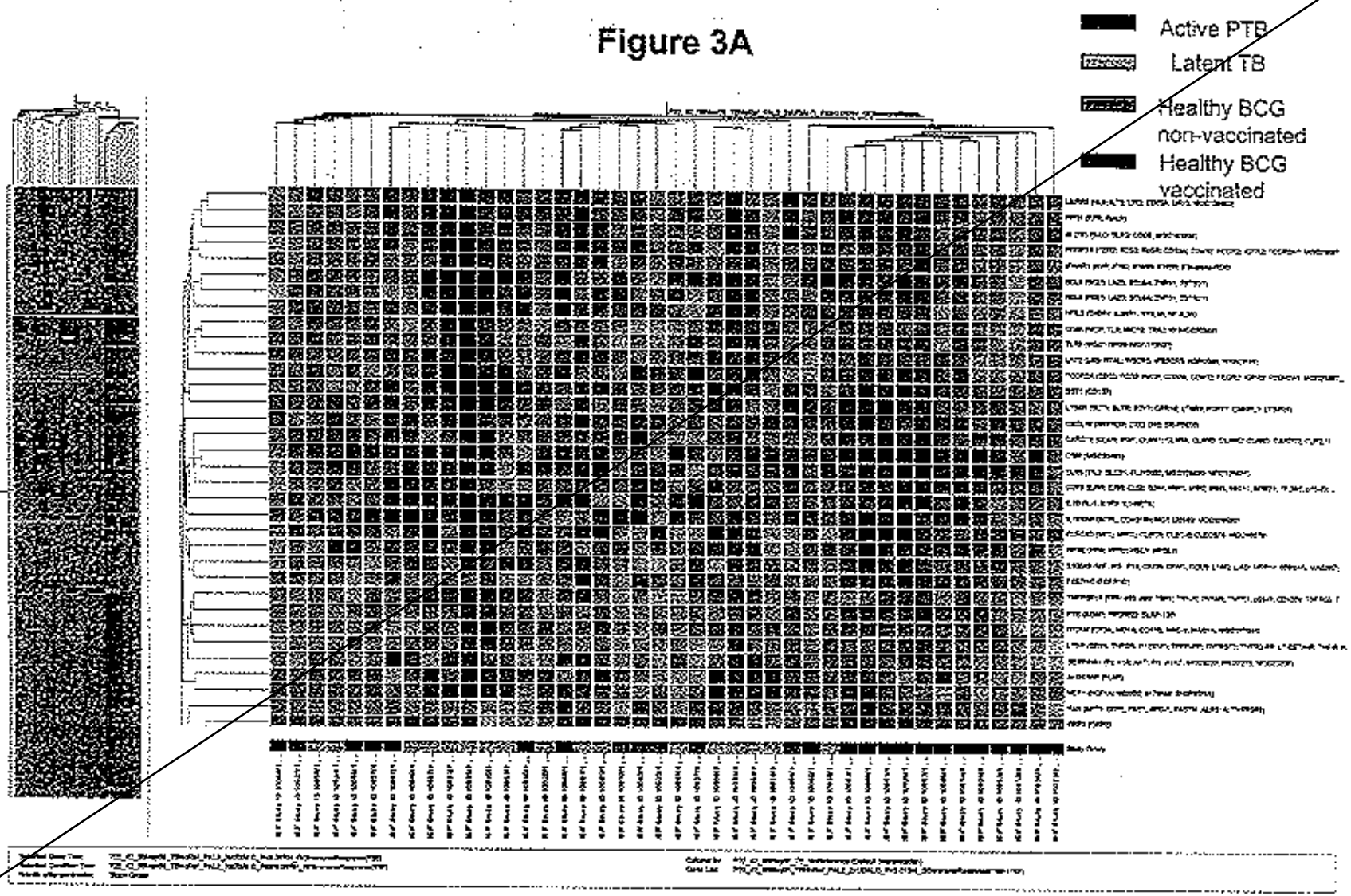

Active PTB
Latent TB
Healthy BCG non-vaccinated
Healthy BCG vaccinated

Figure 3B

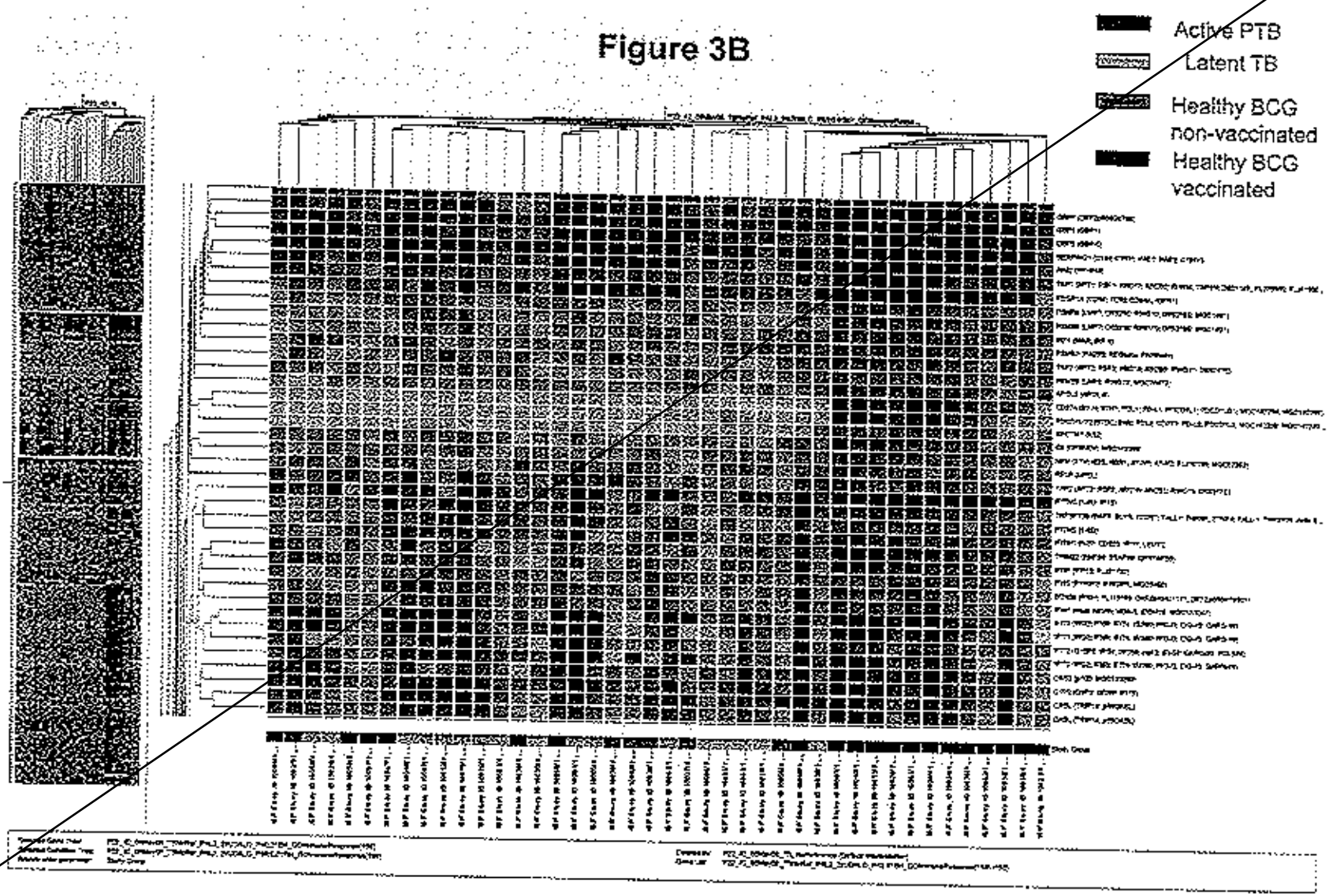

Active PTB
Latent TB
Healthy BCG non-vaccinated
Healthy BCG vaccinated

Figure 3C

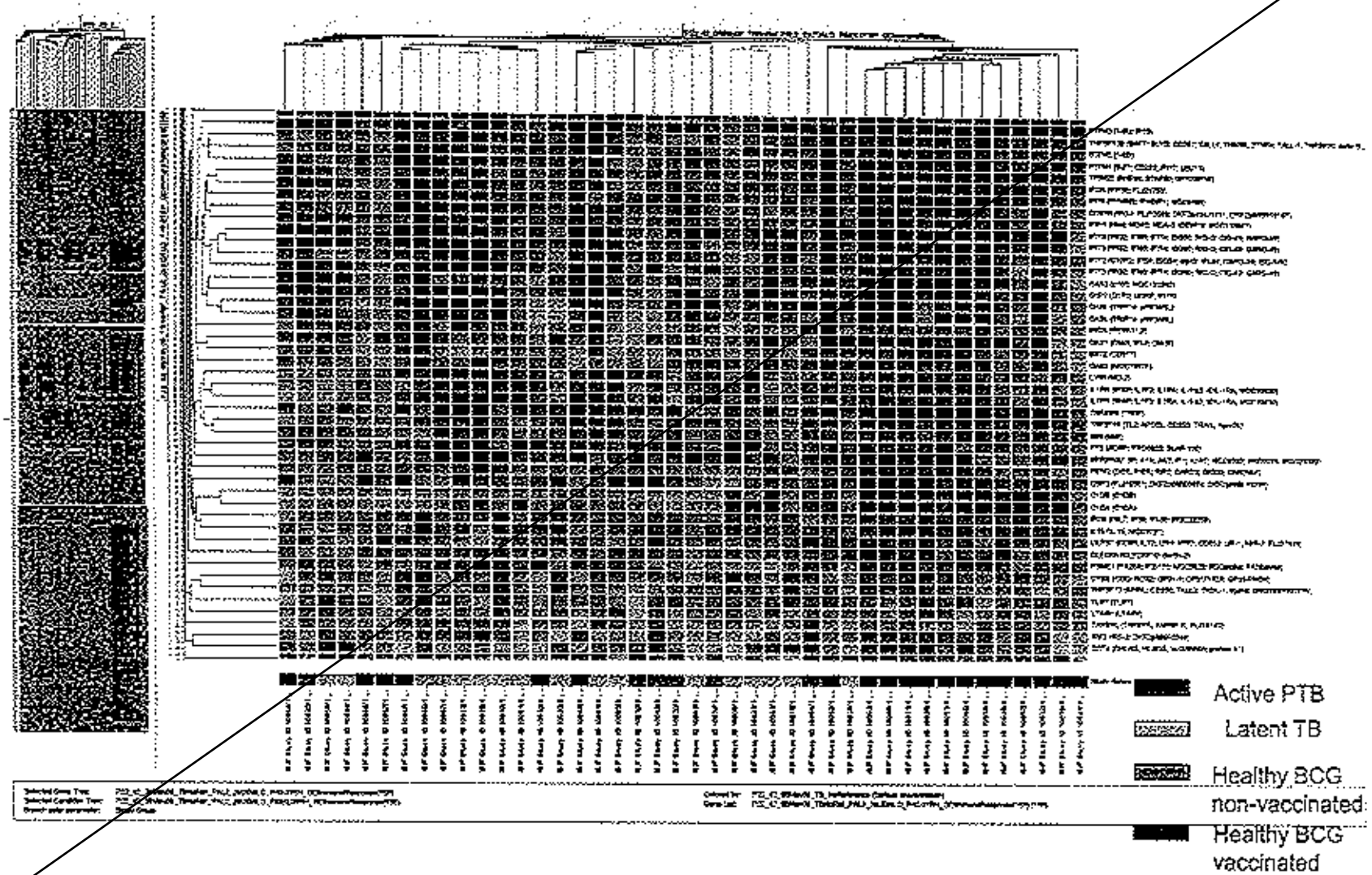

Active PTB
Latent TB
Healthy BCG non-vaccinated
Healthy BCG vaccinated

Figure 3D

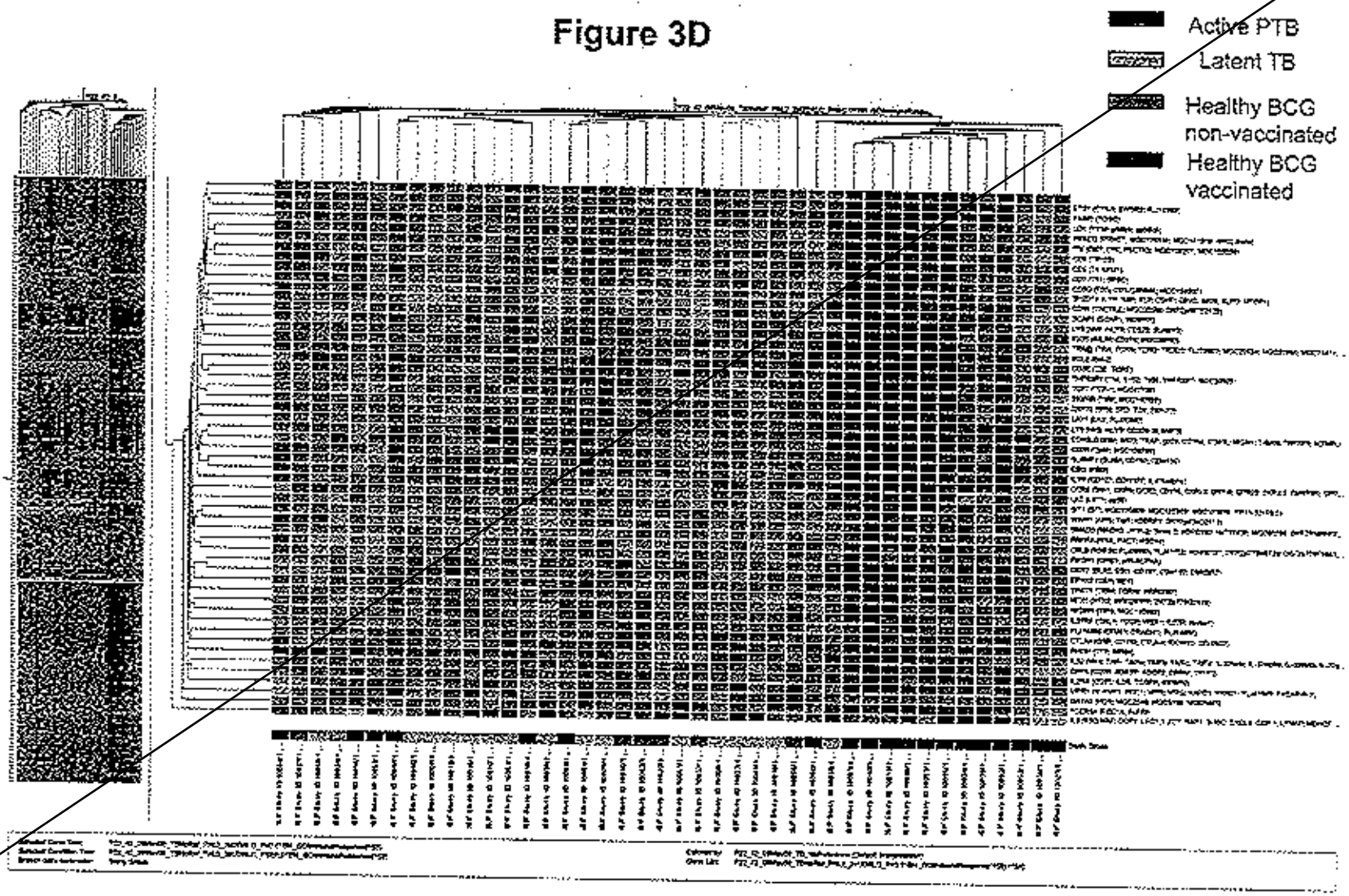

Active PTB
Latent TB
Healthy BCG non-vaccinated
Healthy BCG vaccinated

Figure 4

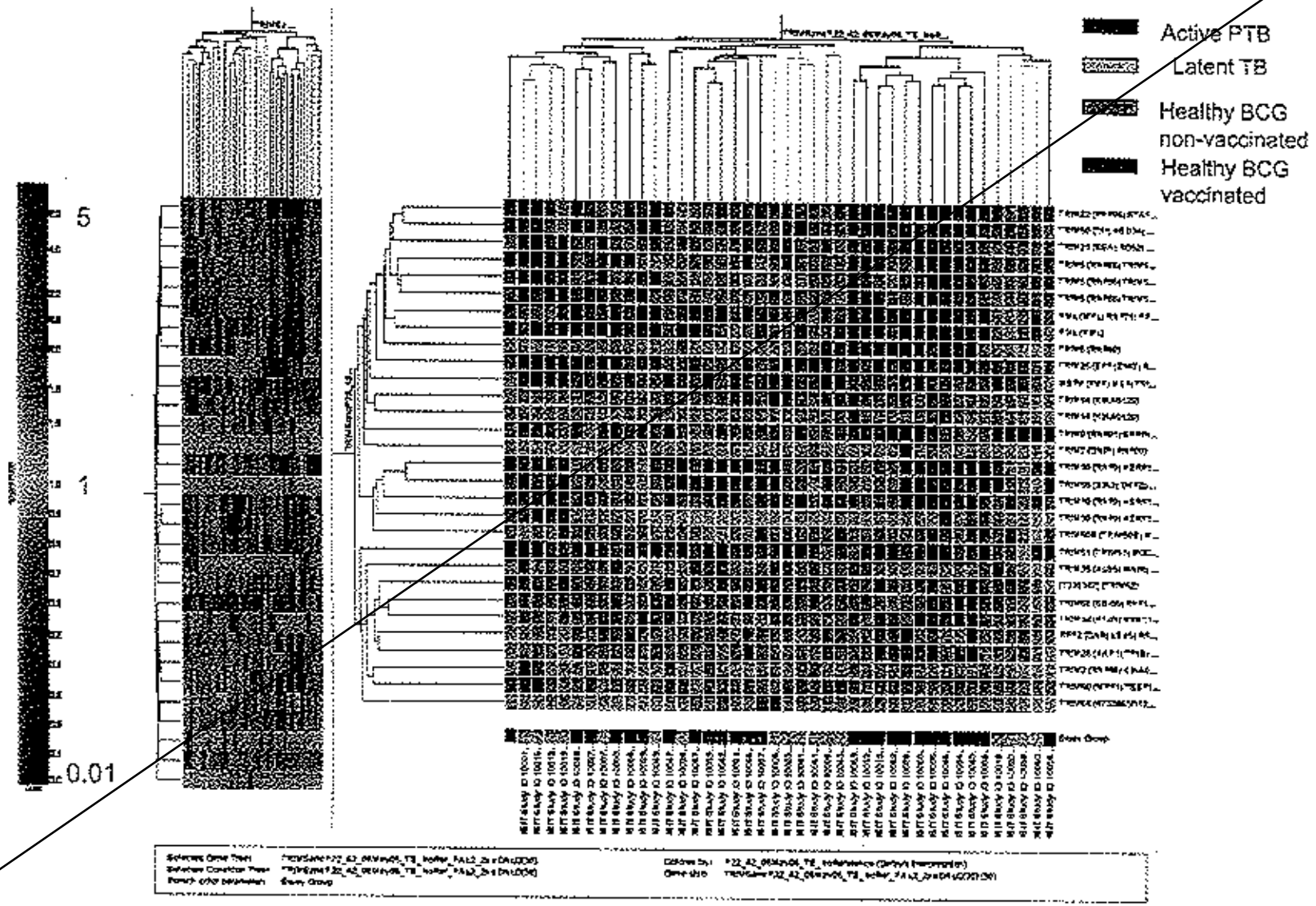

Active PTB
Latent TB
Healthy BCG non-vaccinated
Healthy BCG vaccinated
5
1
0.01

Figure 5A

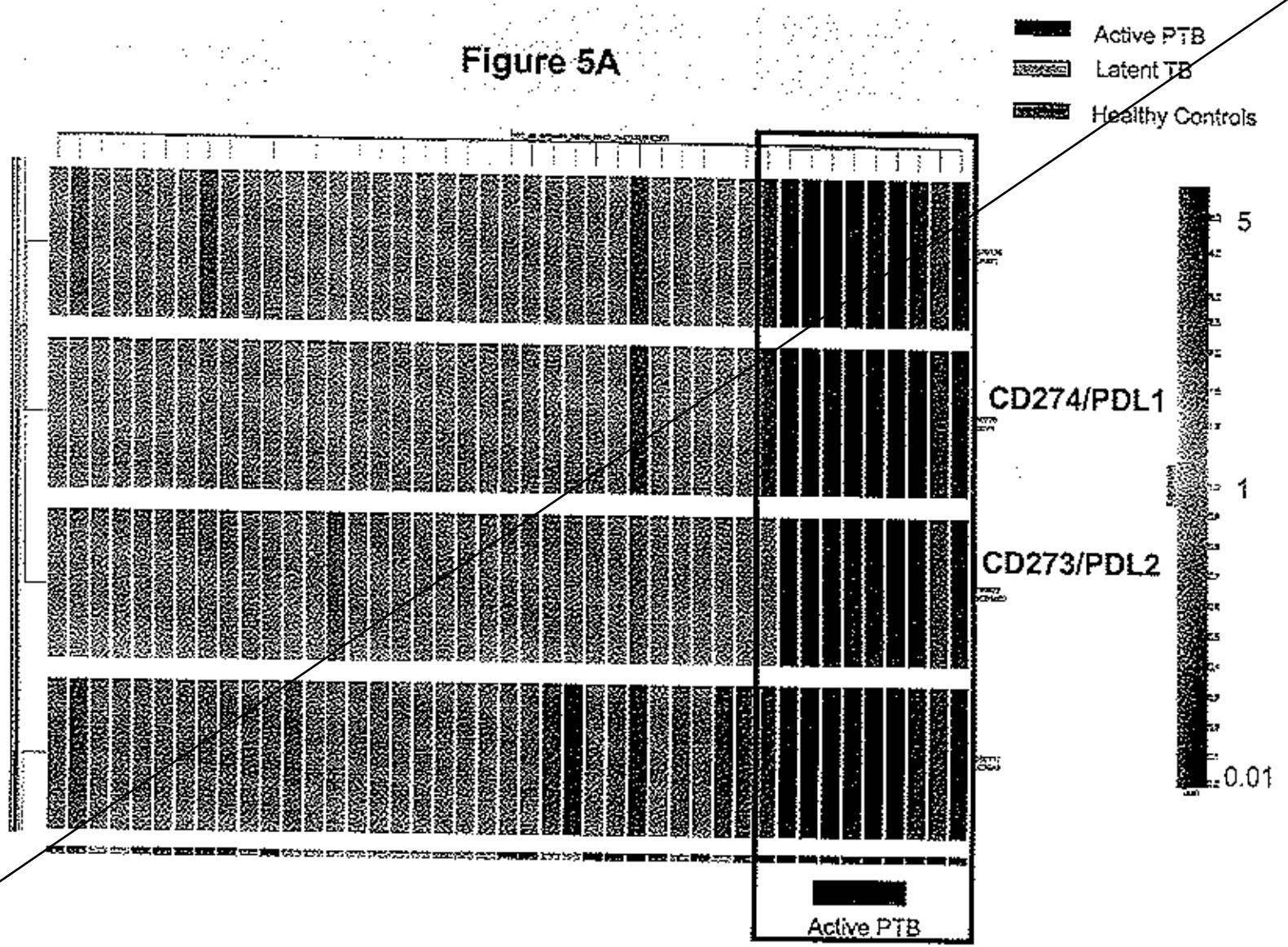

Active PTB
Latent TB
Healthy Controls
CD274/PDL1
CD273/PDL2
5
1
0.01
Active PTB

Figure 5B

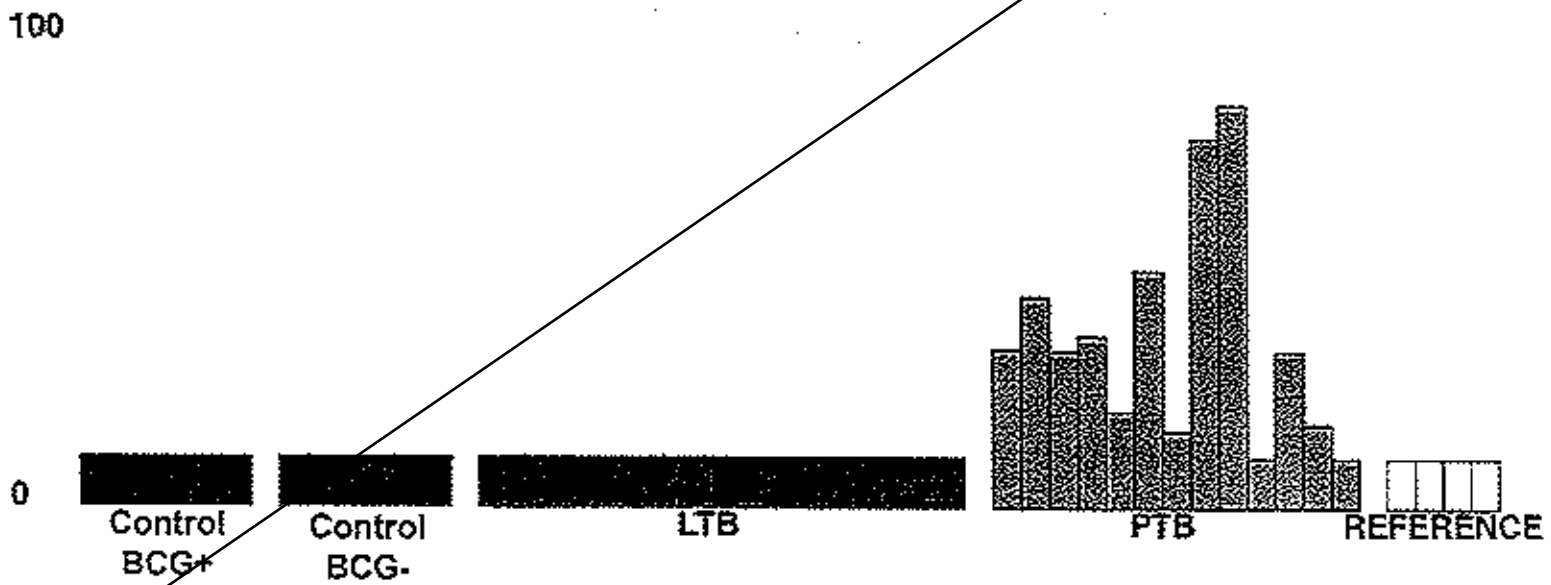


Figure 6

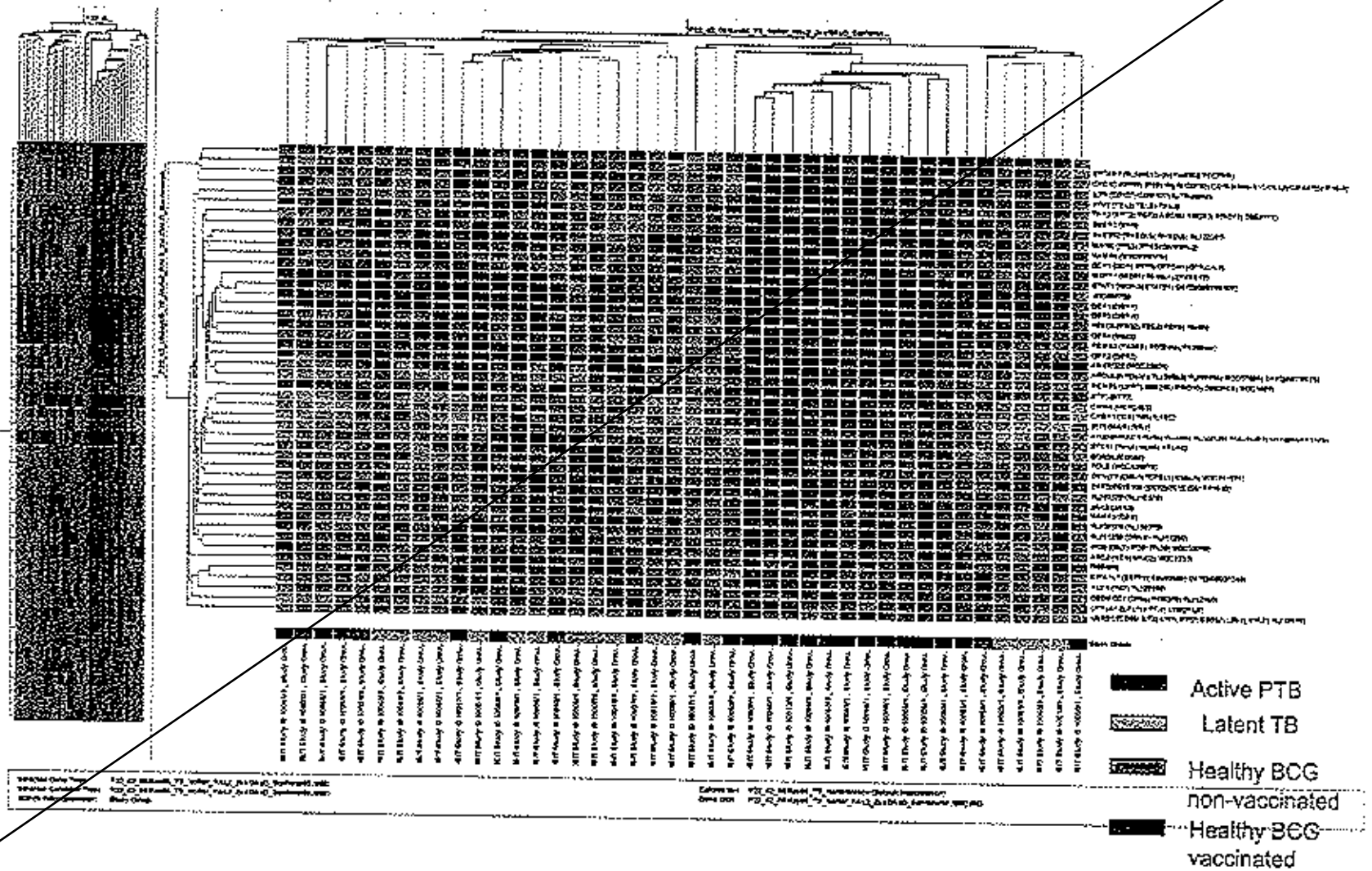

Active PTB
Latent TB
Healthy BCG non-vaccinated
Healthy BCG vaccinated

Figure 7

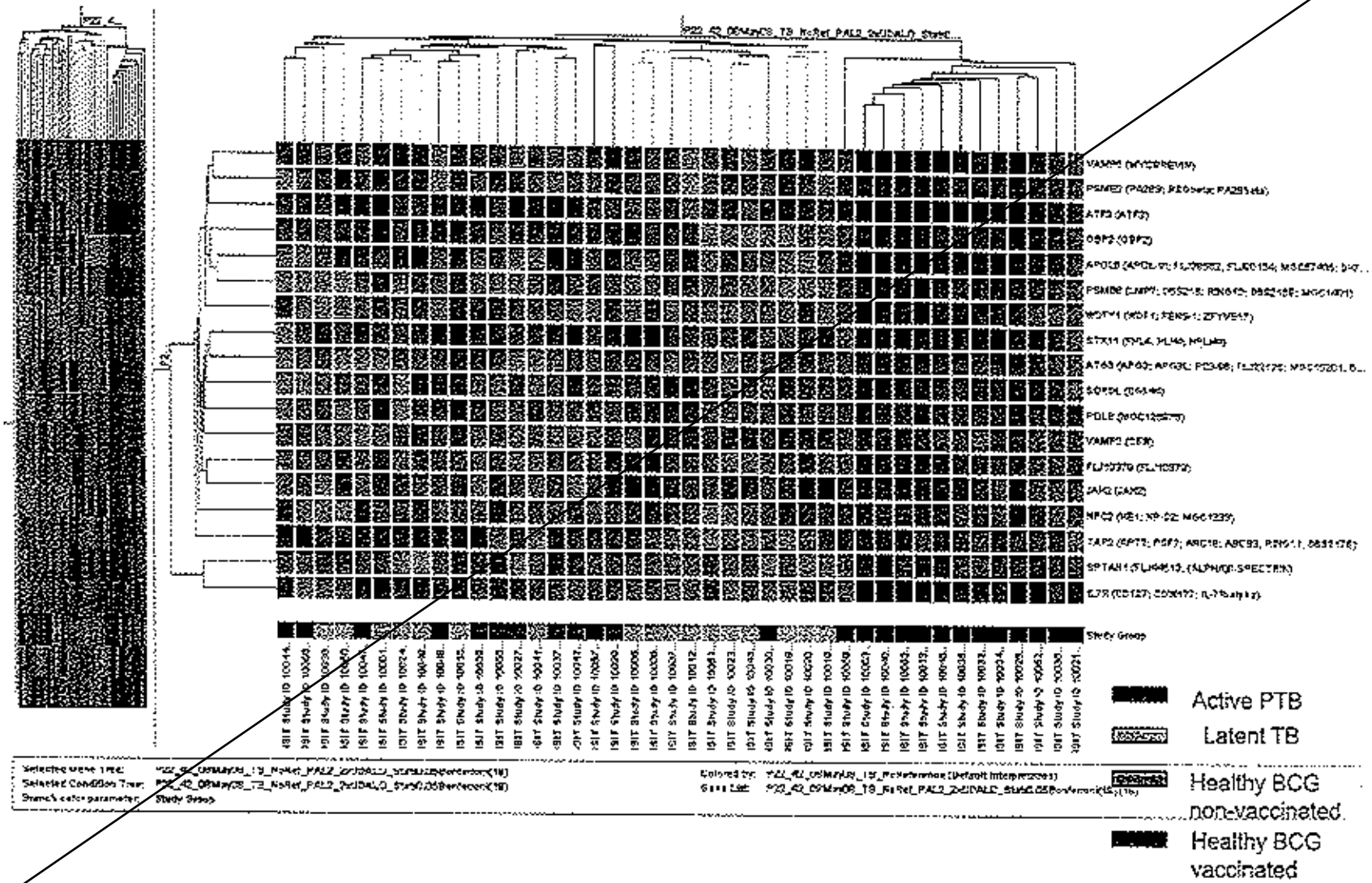

Active PTB
Latent TB
Healthy BCG non-vaccinated
Healthy BCG vaccinated

Figure 8A

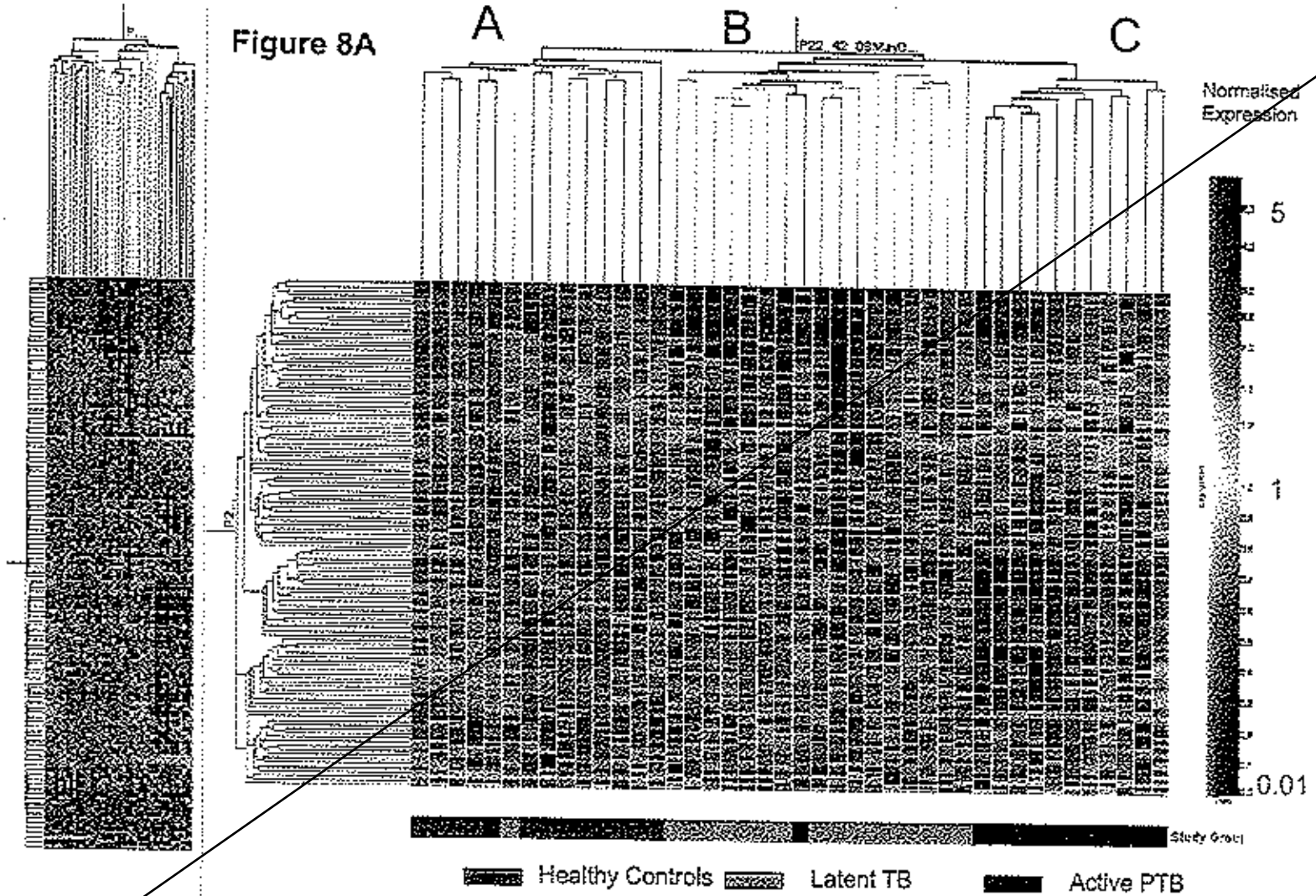

A
B
C
Normalised Expression
5
1
0.01
Study Group
Healthy Controls
Latent TB
Active PTB
Selected Gene Tree:
Selected Condition Tree:
Branch color parameter:
Study Group2
Colored by:
Gene List:
Merged List:StatsLTBvCandPTBvC (149)

Figure 8B

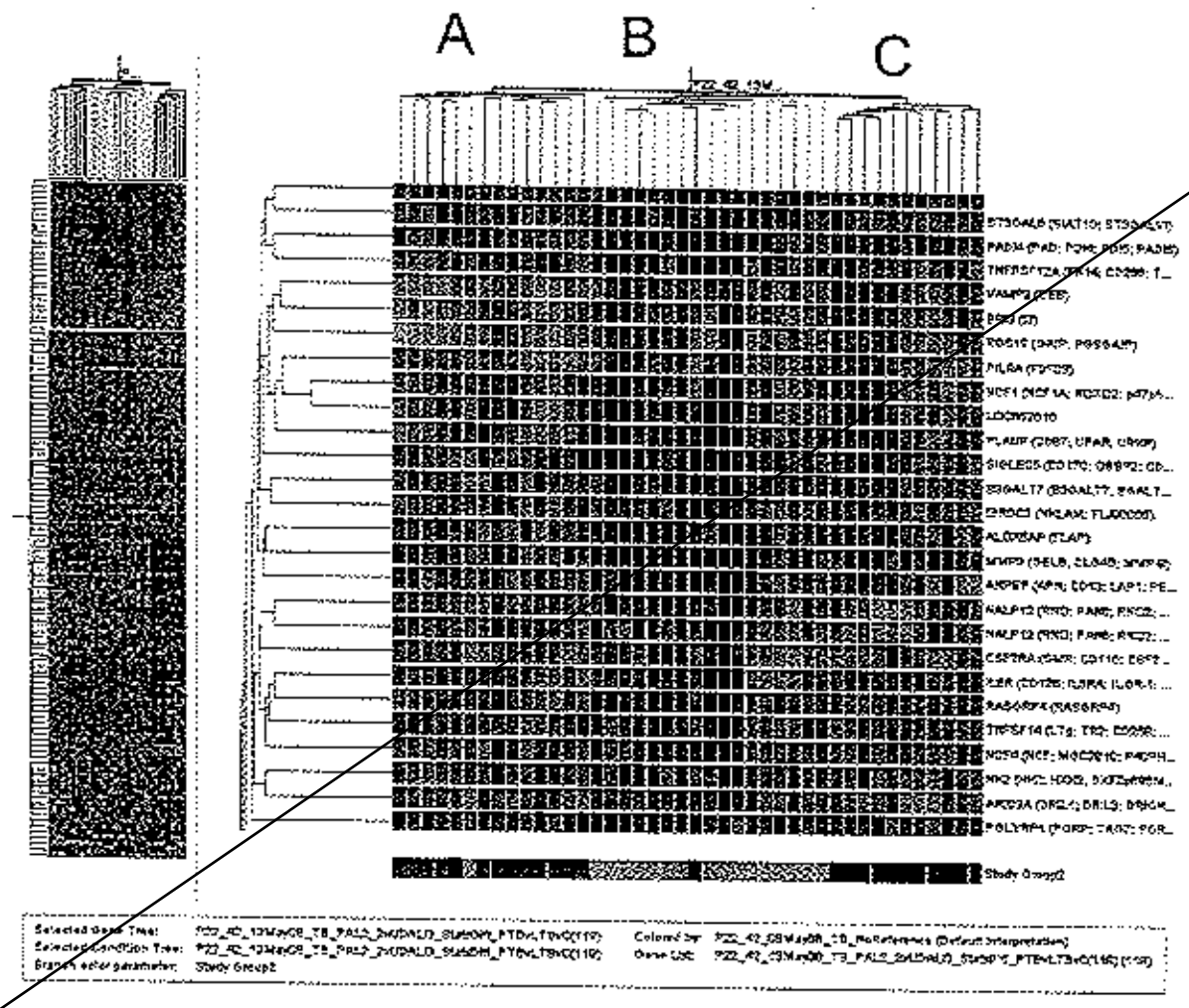


Figure 8C

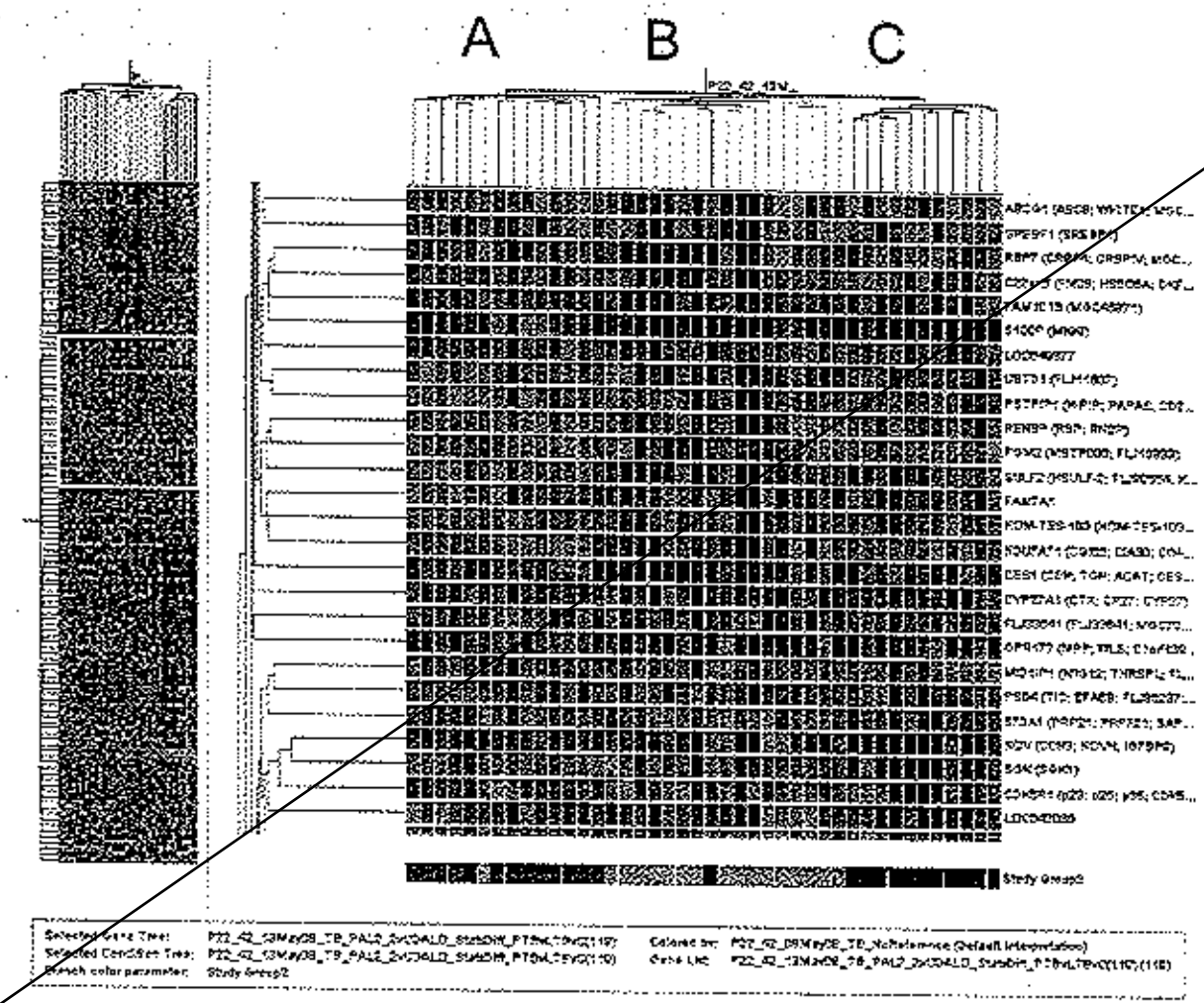


Figure 8D

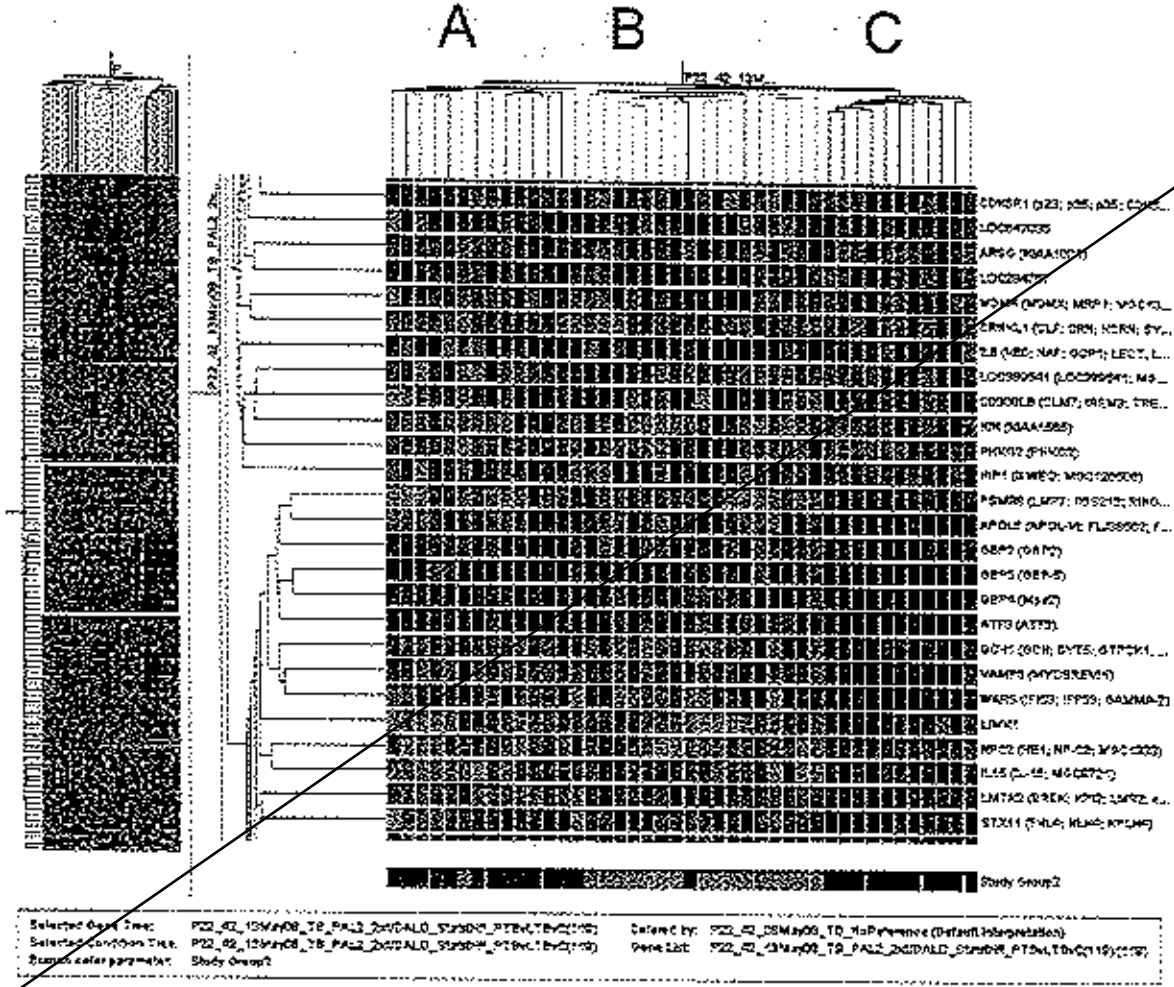


Figure 8E

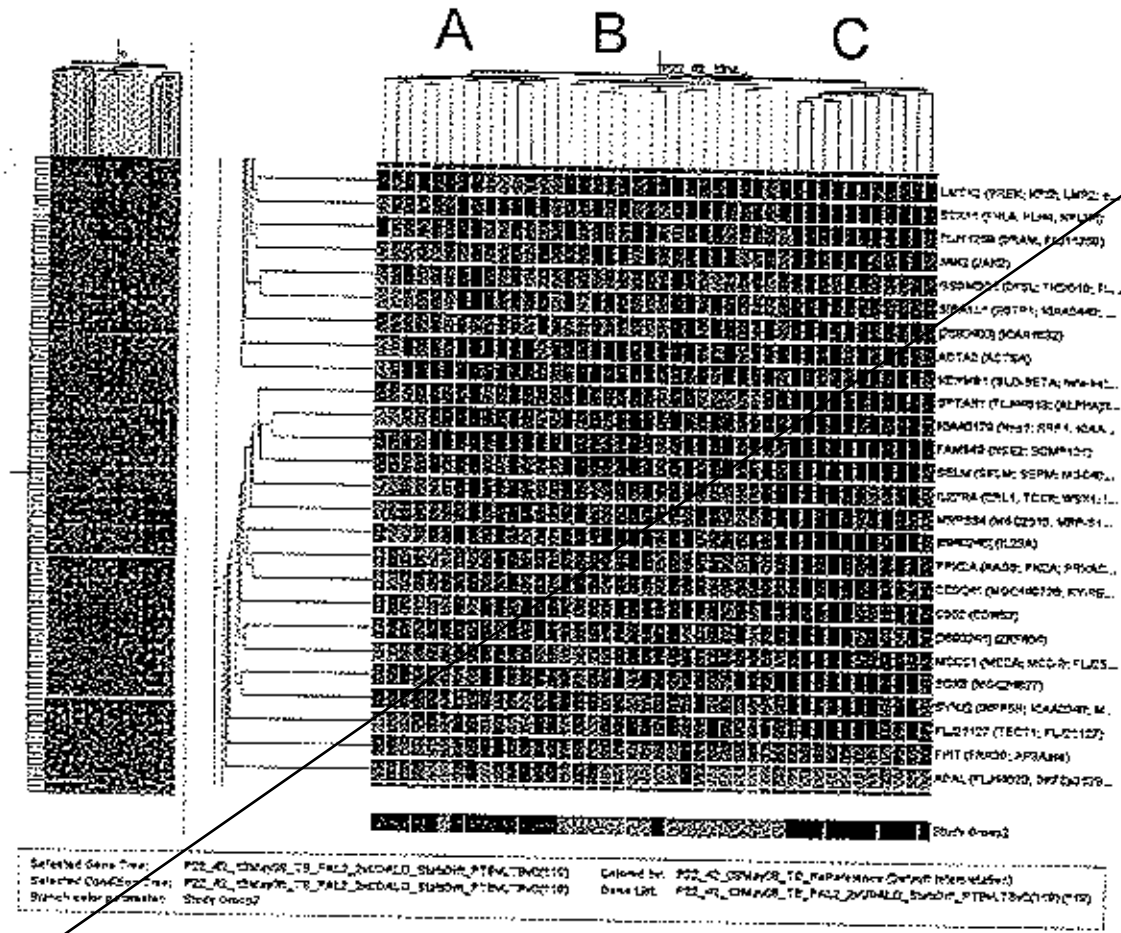


Figure 8F

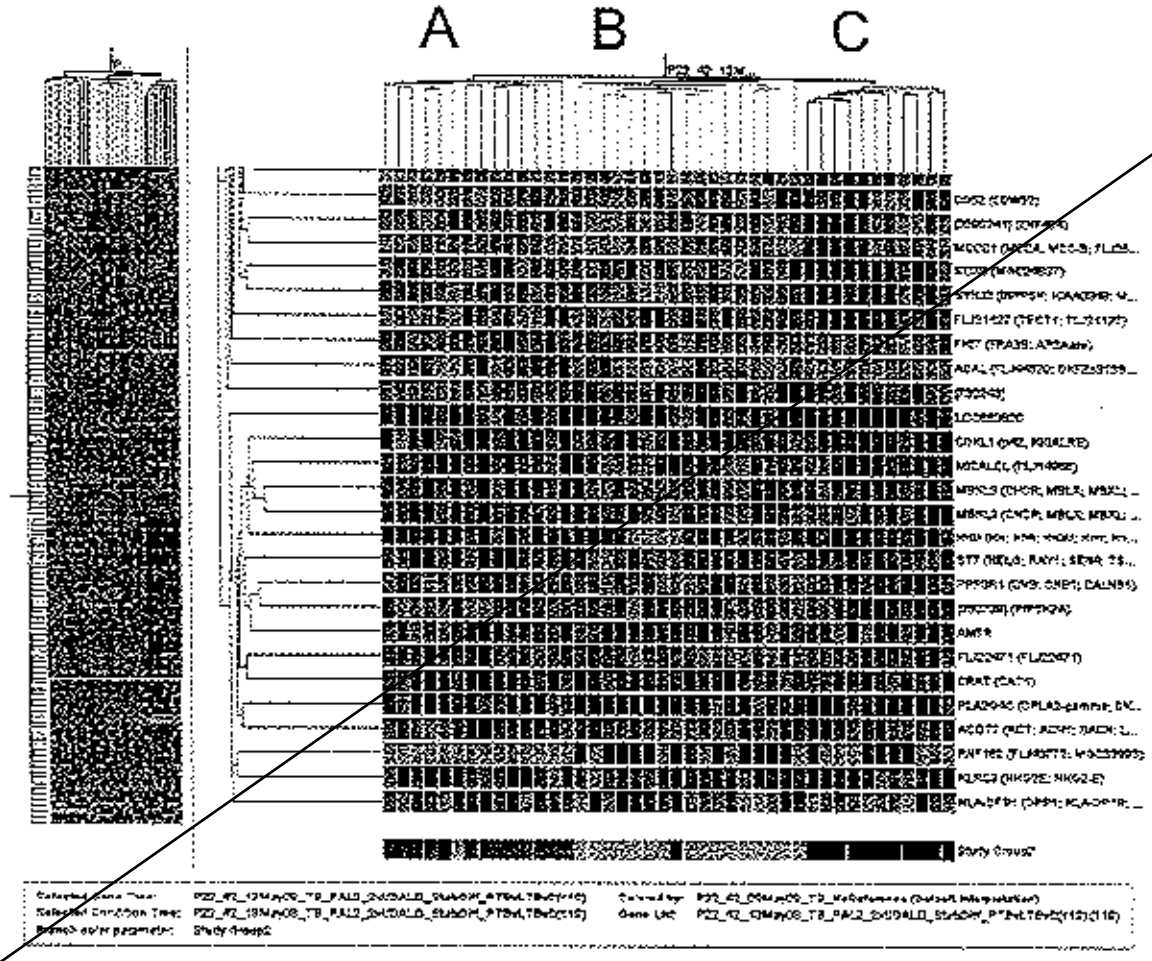
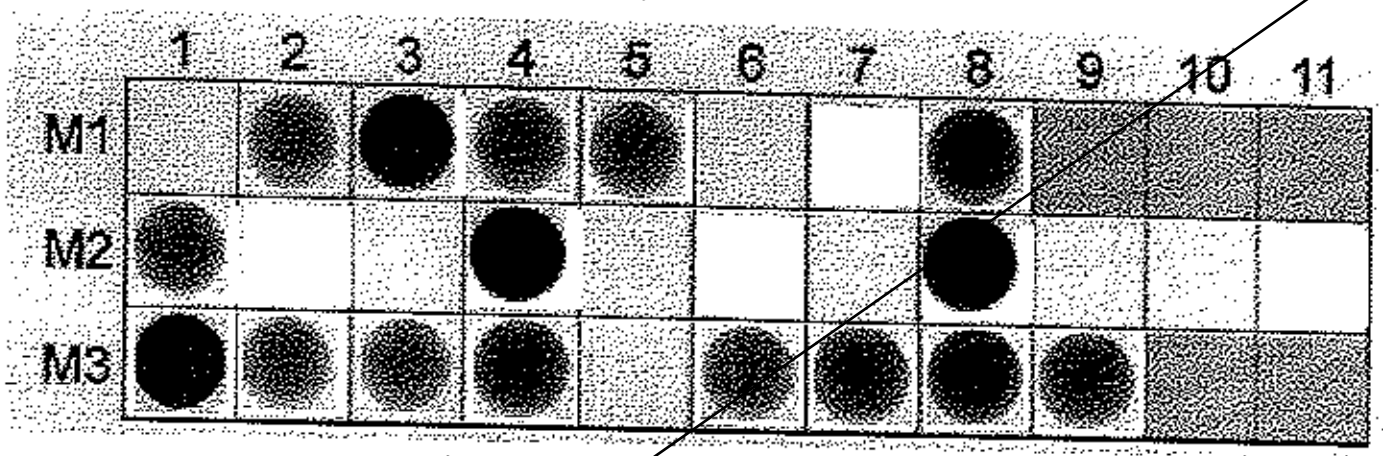
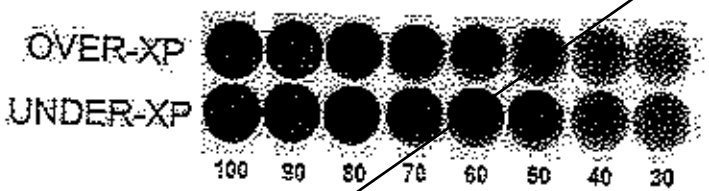
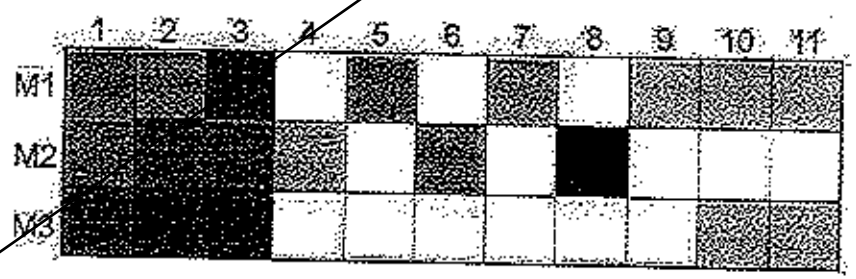


Figure 9





Modules must have >25% of the total genes change in the direction represented and the number of genes changing in that direction must be >10.



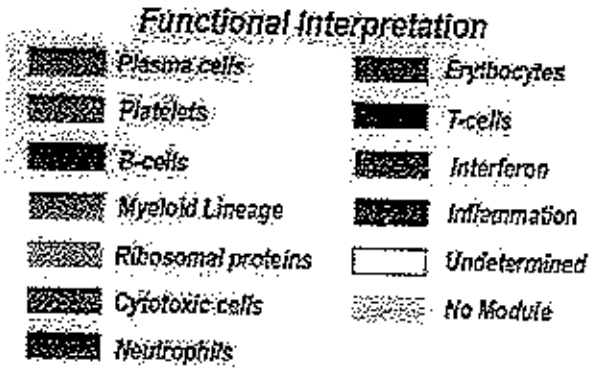
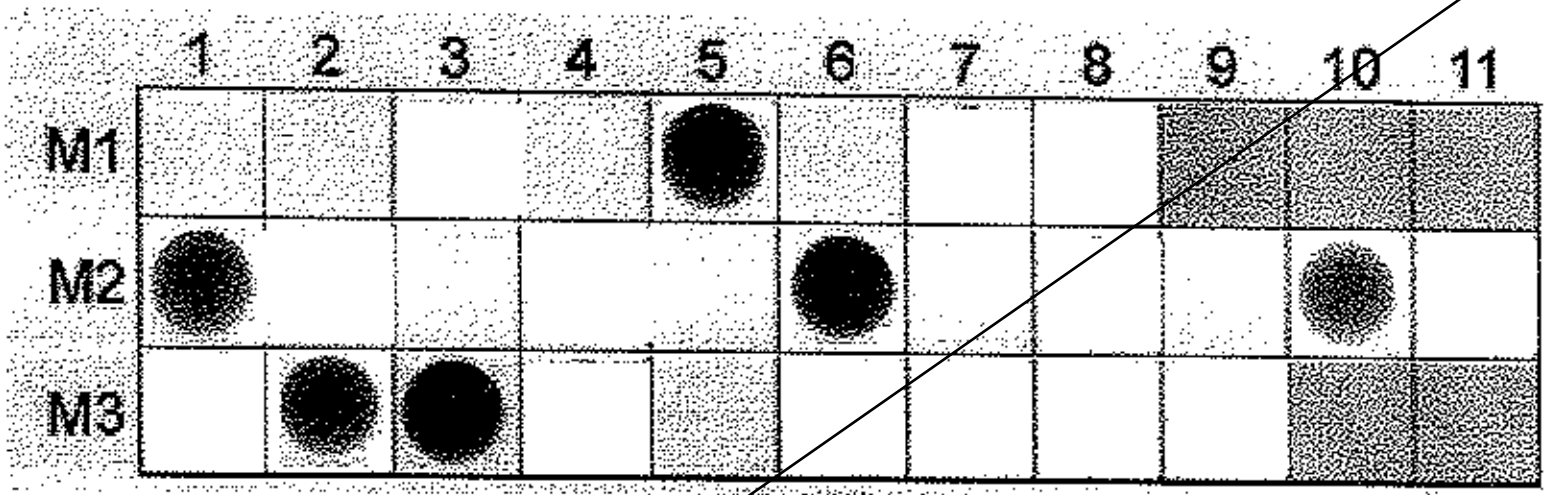
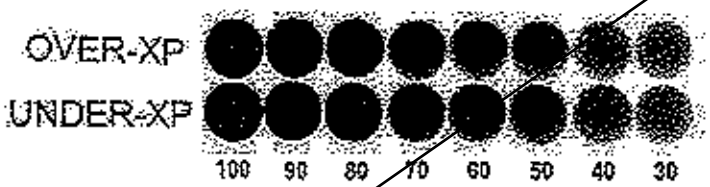
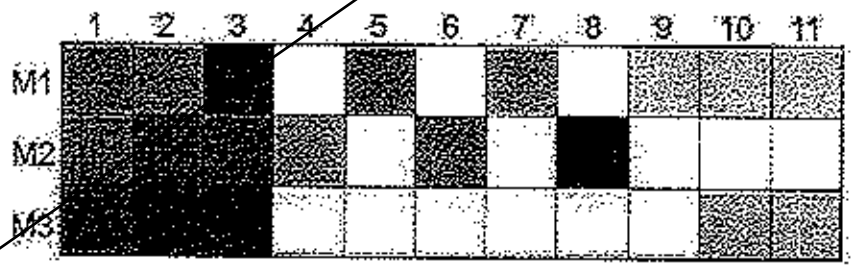


Figure 10





Modules must have >25% of the total genes change in the direction represented and the number of genes changing in that direction must be >10.



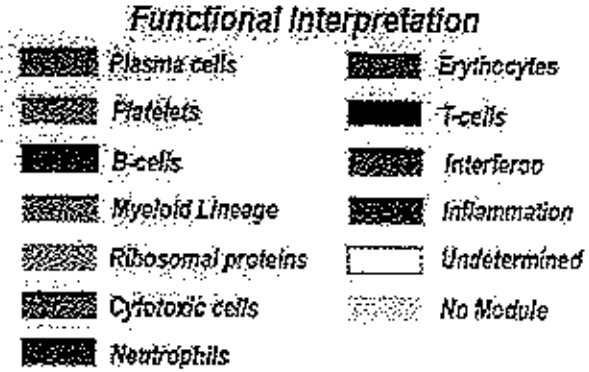


FIG. 1

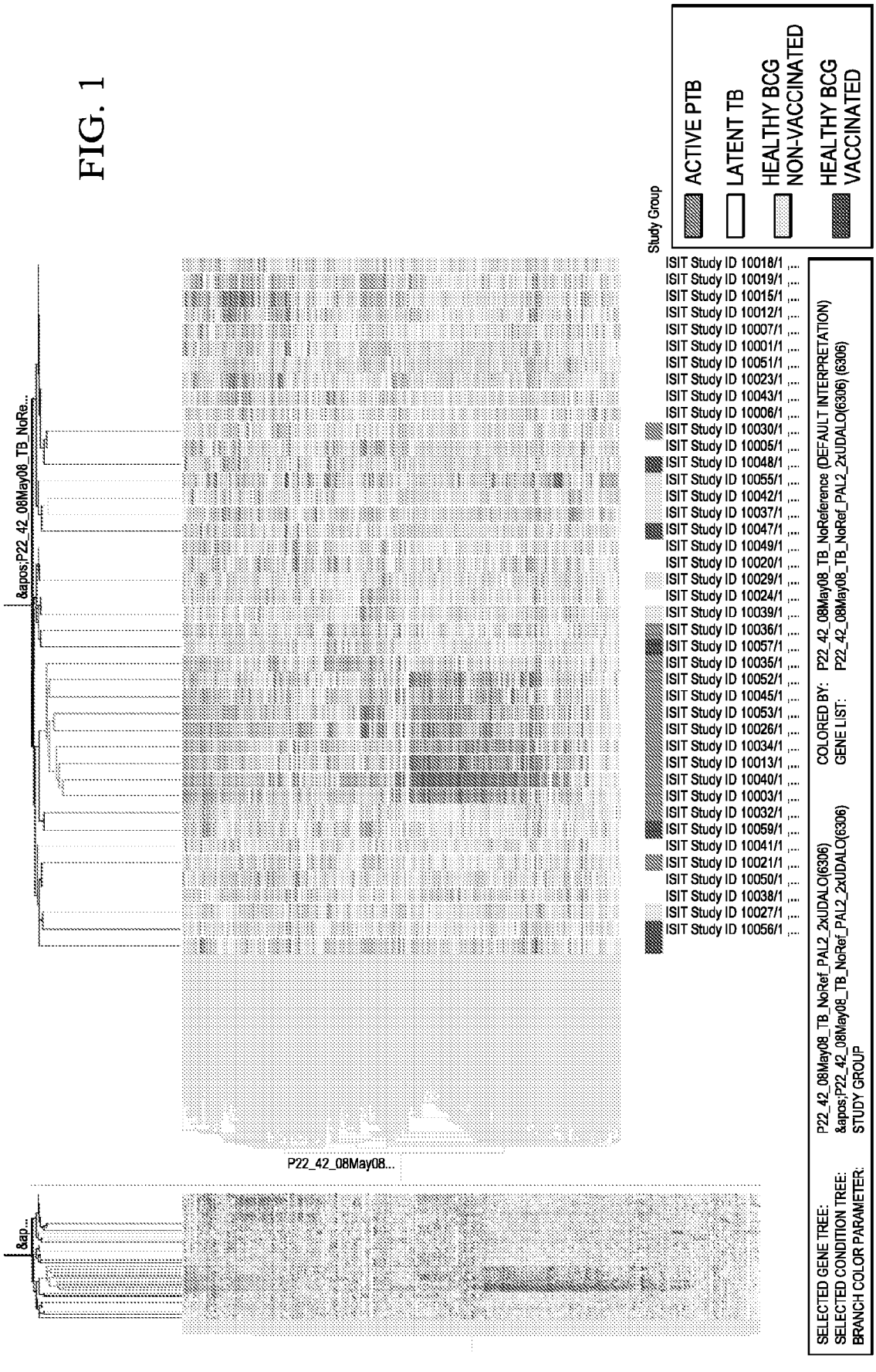

'P22_42_08May08_TB_NoRe...
P22_42_08May08...
&ap...
Study Group
ISIT Study ID 10018/1 ;...
ISIT Study ID 10019/1 ;...
ISIT Study ID 10015/1 ;...
ISIT Study ID 10012/1 ;...
ISIT Study ID 10007/1 ;...
ISIT Study ID 10001/1 ;...
ISIT Study ID 10051/1 ;...
ISIT Study ID 10023/1 ;...
ISIT Study ID 10043/1 ;...
ISIT Study ID 10006/1 ;...
ISIT Study ID 10030/1 ;...
ISIT Study ID 10005/1 ;...
ISIT Study ID 10048/1 ;...
ISIT Study ID 10055/1 ;...
ISIT Study ID 10042/1 ;...
ISIT Study ID 10037/1 ;...
ISIT Study ID 10047/1 ;...
ISIT Study ID 10049/1 ;...
ISIT Study ID 10020/1 ;...
ISIT Study ID 10029/1 ;...
ISIT Study ID 10024/1 ;...
ISIT Study ID 10039/1 ;...
ISIT Study ID 10036/1 ;...
ISIT Study ID 10057/1 ;...
ISIT Study ID 10035/1 ;...
ISIT Study ID 10052/1 ;...
ISIT Study ID 10045/1 ;...
ISIT Study ID 10053/1 ;...
ISIT Study ID 10026/1 ;...
ISIT Study ID 10034/1 ;...
ISIT Study ID 10013/1 ;...
ISIT Study ID 10040/1 ;...
ISIT Study ID 10003/1 ;...
ISIT Study ID 10032/1 ;...
ISIT Study ID 10059/1 ;...
ISIT Study ID 10041/1 ;...
ISIT Study ID 10021/1 ;...
ISIT Study ID 10050/1 ;...
ISIT Study ID 10038/1 ;...
ISIT Study ID 10027/1 ;...
ISIT Study ID 10056/1 ;...
ACTIVE PTB
LATENT TB
HEALTHY BCG
NON-VACCINATED
HEALTHY BCG
VACCINATED
SELECTED GENE TREE: P22_42_08May08_TB_NoRef_PAL2_2xUDALO(6306)
SELECTED CONDITION TREE: 'P22_42_08May08_TB_NoRef_PAL2_2xUDALO(6306)
BRANCH COLOR PARAMETER: STUDY GROUP
COLORED BY: P22_42_08May08_TB_NoReference (DEFAULT INTERPRETATION)
GENE LIST: P22_42_08May08_TB_NoRef_PAL2_2xUDALO(6306) (6306)

FIG. 2

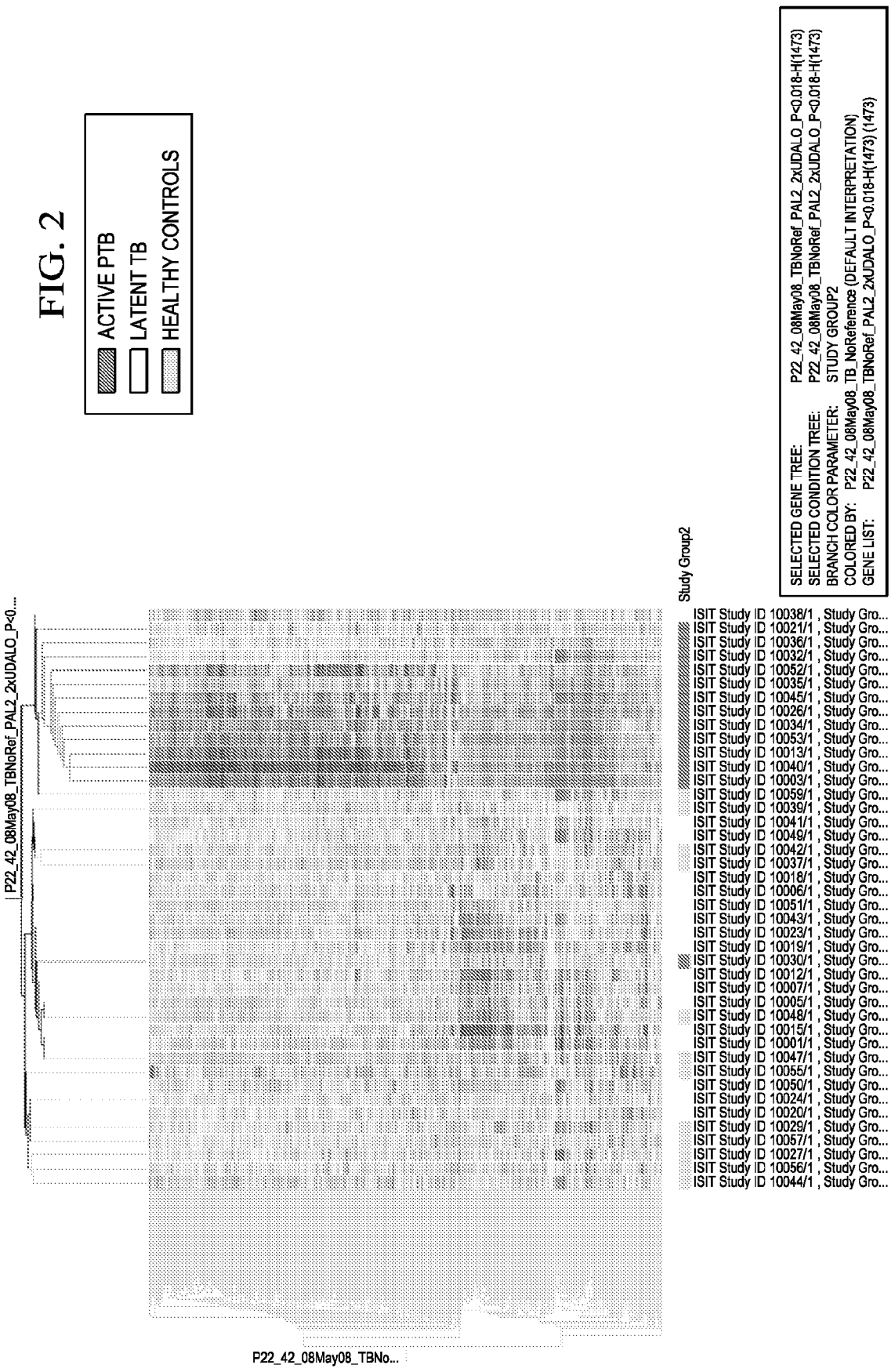

ACTIVE PTB
LATENT TB
HEALTHY CONTROLS
P22_42_08May08_TBNoRef_PAL2_2xUDALO_P<0...
P22_42_08May08_TBNo...
Study Group2
ISIT Study ID 10038/1 , Study Gro...
ISIT Study ID 10021/1 , Study Gro...
ISIT Study ID 10036/1 , Study Gro...
ISIT Study ID 10032/1 , Study Gro...
ISIT Study ID 10052/1 , Study Gro...
ISIT Study ID 10035/1 , Study Gro...
ISIT Study ID 10045/1 , Study Gro...
ISIT Study ID 10026/1 , Study Gro...
ISIT Study ID 10034/1 , Study Gro...
ISIT Study ID 10053/1 , Study Gro...
ISIT Study ID 10013/1 , Study Gro...
ISIT Study ID 10040/1 , Study Gro...
ISIT Study ID 10003/1 , Study Gro...
ISIT Study ID 10059/1 , Study Gro...
ISIT Study ID 10039/1 , Study Gro...
ISIT Study ID 10041/1 , Study Gro...
ISIT Study ID 10049/1 , Study Gro...
ISIT Study ID 10042/1 , Study Gro...
ISIT Study ID 10037/1 , Study Gro...
ISIT Study ID 10018/1 , Study Gro...
ISIT Study ID 10006/1 , Study Gro...
ISIT Study ID 10051/1 , Study Gro...
ISIT Study ID 10043/1 , Study Gro...
ISIT Study ID 10023/1 , Study Gro...
ISIT Study ID 10019/1 , Study Gro...
ISIT Study ID 10030/1 , Study Gro...
ISIT Study ID 10012/1 , Study Gro...
ISIT Study ID 10007/1 , Study Gro...
ISIT Study ID 10005/1 , Study Gro...
ISIT Study ID 10048/1 , Study Gro...
ISIT Study ID 10015/1 , Study Gro...
ISIT Study ID 10001/1 , Study Gro...
ISIT Study ID 10047/1 , Study Gro...
ISIT Study ID 10055/1 , Study Gro...
ISIT Study ID 10050/1 , Study Gro...
ISIT Study ID 10024/1 , Study Gro...
ISIT Study ID 10020/1 , Study Gro...
ISIT Study ID 10029/1 , Study Gro...
ISIT Study ID 10057/1 , Study Gro...
ISIT Study ID 10027/1 , Study Gro...
ISIT Study ID 10056/1 , Study Gro...
ISIT Study ID 10044/1 , Study Gro...
SELECTED GENE TREE: P22_42_08May08_TBNoRef_PAL2_2xUDALO_P<0.018-H(1473)
SELECTED CONDITION TREE: P22_42_08May08_TBNoRef_PAL2_2xUDALO_P<0.018-H(1473)
BRANCH COLOR PARAMETER: STUDY GROUP2
COLORED BY: P22_42_08May08_TB_NoReference (DEFAULT INTERPRETATION)
GENE LIST: P22_42_08May08_TBNoRef_PAL2_2xUDALO_P<0.018-H(1473) (1473)

FIG. 3A

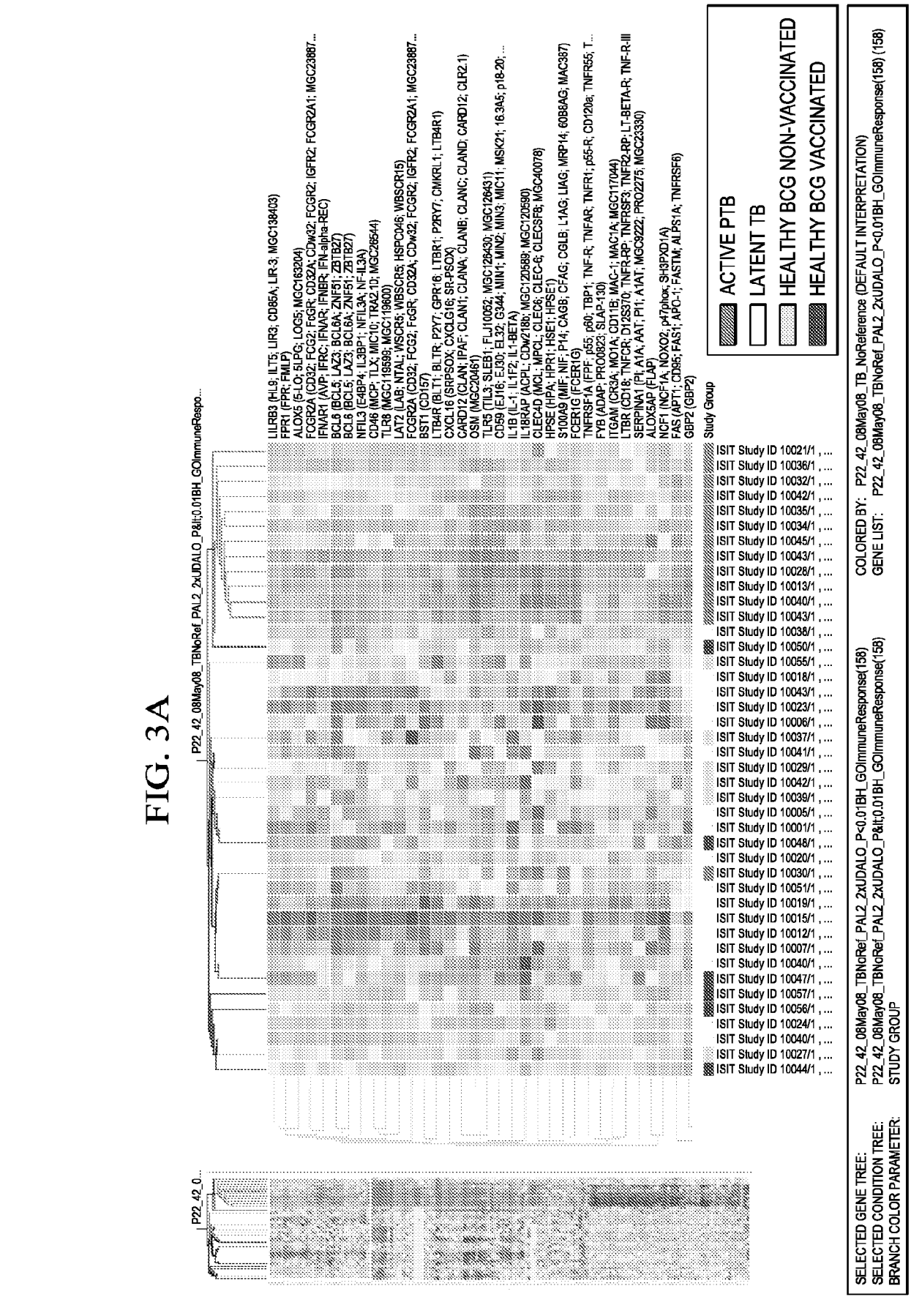

P22_42_08May08_TBNoRef_PAL2_2xUDALO_P<0.01BH_GOImmuneRespo...
P22_42_0...
LILRB3 (HL9; ILT5; LIR3; CD85A; LIR-3; MGC138403)
FPR1 (FPR; FMLP)
ALOX5 (5-LO; 5LPG; LOG5; MGC163204)
FCGR2A (CD32; FCG2; FcGR; CD32A; CDw32; FCGR2; IGFR2; FCGR2A1; MGC23887...
IFNAR1 (AVP; IFRC; IFNAR; IFNBR; IFN-alpha-REC)
BCL6 (BCL5; LAZ3; BCL6A; ZNF51; ZBTB27)
NFIL3 (E4BP4; IL3BP1; NFIL3A; NF-IL3A)
CD46 (MCP; TLX; MIC10; TRA2.10; MGC26544)
TLR8 (MGC119599; MGC119600)
LAT2 (LAB; NTAL; WSCR5; WBSCR5; HSPC046; WBSCR15)
BST1 (CD157)
LTB4R (BLT1; BLTR; P2Y7; GPR16; LTBR1; P2RY7; CMKRL1; LTB4R1)
CXCL16 (SRPSOX; CXCLG16; SR-PSOX)
CARD12 (CLAN; IPAF; CLAN1; CLANA; CLANB; CLANC; CLAND; CARD12; CLR2.1)
OSM (MGC20461)
TLR5 (TIL3; SLEB1; FLJ10052; MGC126430; MGC126431)
CD59 (EJ16; EJ30; EL32; G344; MIN1; MIN2; MIN3; MIC11; MSK21; 16.3A5; p18-20; ...
IL1B (IL-1; IL1F2; IL1-BETA)
IL1RAP (ACPL; CDw218b; MGC120589; MGC120590)
CLEC4D (MCL; MPCL; CLEC6; CLEC-6; CLECSF8; MGC40078)
HPSE (HPA; HPR1; HSE1; HPSE1)
S100A9 (MIF; NIF; P14; CAGB; CFAG; CGLB; L1AG; LIAG; MRP14; 60B8AG; MAC387)
FCER1G (FCERIG)
TNFRSF1A (FPF; p55; p60; TBP1; TNF-R; TNFAR; TNFR1; p55-R; CD120a; TNFR55; T...
FYB (ADAP; PRO0823; SLAP-130)
ITGAM (CR3A; MO1A; CD11B; MAC-1; MAC1A; MGC117044)
LTBR (CD18; TNFCR; D12S370; TNFR-RP; TNFRSF3; TNFR2-RP; LT-BETA-R; TNF-R-III
SERPINA1 (PI; A1A; AAT; PI1; A1AT; MGC9222; PRO2275; MGC23330)
ALOX5AP (FLAP)
NCF1 (NCF1A; NOXO2; p47phox; 9H3PXD1A)
FAS (APT1; CD95; FAS1; APO-1; FASTM; ALPS1A; TNFRSF6)
GBP2 (GBP2)
Study Group
ISIT Study ID 10021/1 , ...
ISIT Study ID 10036/1 , ...
ISIT Study ID 10032/1 , ...
ISIT Study ID 10042/1 , ...
ISIT Study ID 10035/1 , ...
ISIT Study ID 10034/1 , ...
ISIT Study ID 10045/1 , ...
ISIT Study ID 10043/1 , ...
ISIT Study ID 10028/1 , ...
ISIT Study ID 10013/1 , ...
ISIT Study ID 10040/1 , ...
ISIT Study ID 10043/1 , ...
ISIT Study ID 10038/1 , ...
ISIT Study ID 10050/1 , ...
ISIT Study ID 10055/1 , ...
ISIT Study ID 10018/1 , ...
ISIT Study ID 10043/1 , ...
ISIT Study ID 10023/1 , ...
ISIT Study ID 10006/1 , ...
ISIT Study ID 10037/1 , ...
ISIT Study ID 10041/1 , ...
ISIT Study ID 10029/1 , ...
ISIT Study ID 10042/1 , ...
ISIT Study ID 10039/1 , ...
ISIT Study ID 10005/1 , ...
ISIT Study ID 10001/1 , ...
ISIT Study ID 10048/1 , ...
ISIT Study ID 10020/1 , ...
ISIT Study ID 10030/1 , ...
ISIT Study ID 10051/1 , ...
ISIT Study ID 10019/1 , ...
ISIT Study ID 10015/1 , ...
ISIT Study ID 10012/1 , ...
ISIT Study ID 10007/1 , ...
ISIT Study ID 10040/1 , ...
ISIT Study ID 10047/1 , ...
ISIT Study ID 10057/1 , ...
ISIT Study ID 10056/1 , ...
ISIT Study ID 10024/1 , ...
ISIT Study ID 10040/1 , ...
ISIT Study ID 10027/1 , ...
ISIT Study ID 10044/1 , ...
ACTIVE PTB
LATENT TB
HEALTHY BCG NON-VACCINATED
HEALTHY BCG VACCINATED
SELECTED GENE TREE: P22_42_08May08_TBNoRef_PAL2_2xUDALO_P<0.01BH_GOImmuneResponse(158)
SELECTED CONDITION TREE: P22_42_08May08_TBNoRef_PAL2_2xUDALO_P<0.01BH_GOImmuneResponse(158)
BRANCH COLOR PARAMETER: STUDY GROUP
COLORED BY: P22_42_08May08_TB_NoReference (DEFAULT INTERPRETATION)
GENE LIST: P22_42_08May08_TBNoRef_PAL2_2xUDALO_P<0.01BH_GOImmuneResponse(158) (158)

FIG. 3B

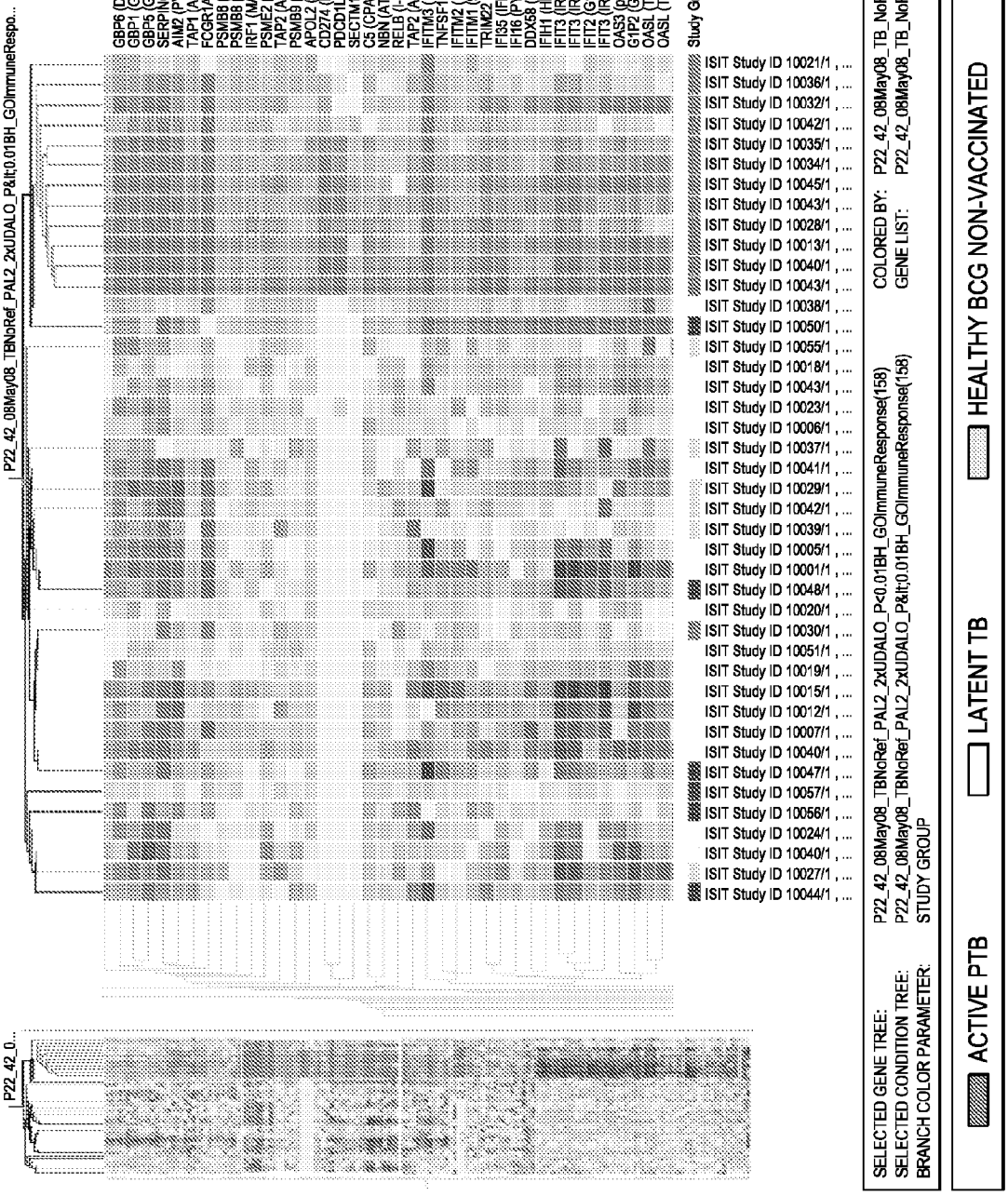

P22_42_0...
P22_42_08May08_TBNoRef_PAL2_2xUDALO_P<0.01BH_GOImmuneRespo...
GBP6 (DKFZp686G0786)
GBP1 (GBP1)
GBP5 (GBP-5)
SERPING1 (C1IN; C1NH; HAE1; HAE2; C1INH)
AIM2 (PYHIN4)
TAP1 (APT1; PSF1; ABC17; ABCB2; RING4; TAP1N; D6S114E; FLJ26666; FLJ41500...
FCGR1A (CD64; FCRI; CD64A; IGFR1)
PSMB9 (LMP7; D6S216; RING10; D6S216E; MGC14491)
PSMB8 (LMP7; D6S216; RING10; D6S216E; MGC14491)
IRF1 (MAR; IRF-1)
PSME2 (PA28B; REGbeta; PA28beta)
TAP2 (APT2; PSF2; ABC18; ABCB3; RING11; D6S217E)
PSMB9 (LMP2; RING12; MGC70470)
APOL2 (APOL-II)
CD274 (B7-H1; B7H1; PDL1; PD-L1; PDCD1L1; PDCD1LG1; MGC142294; MGC142296)
PDCD1LG2 (B7DC; Btdc; PDL2; CD273; PD-L2; PDCD1L2; MGC142238; MGC142240...
SEC1M1 (K12)
C5 (CPAMD4; MGC142298)
NBN (ATV; NBS; NBS1; AT-V1; AT-V2; FLJ10155; MGC87362)
RELB (I-REL)
TAP2 (APT2; PSF2; ABC18; ABCB3; RING11; D6S217E)
IFITM3 (1-8U; IP15)
TNFSF13B (BAFF; BLYS; CD257; TALL1; THANK; ZTNF4; TALL-1; TNFSF20; delta B...
IFITM2 (1-8D)
IFITM1 (9-27; CD225; IFI17; LEU13)
TRIM22 (RNF94; STAF56; GPSTAF50)
IFI35 (IFP35; FLJ21753)
IFI16 (PYHIN2; IFNGIP1; MGC9486)
DDX58 (RIG-I; FLJ13589; DKFZp434J1111; DKFZp686N19181)
IFIH1 (Hlcd; MDA5; MDA-5; IDDM19; MGC133047)
IFIT3 (IRG2; IFI60; IFIT4; ISG60; RIG-G; CIG-49; GARG-49)
IFIT3 (IRG2; IFI60; IFIT4; ISG60; RIG-G; CIG-49; GARG-49)
IFIT3 (IRG2; IFI60; IFIT4; ISG60; RIG-G; CIG-49; GARG-49)
IFIT2 (G10P2; IFI54; ISG54; cig42; IFI-54; GARG-39; ISG-54K)
IFIT3 (IRG2; IFI60; IFIT4; ISG60; RIG-G; CIG-49; GARG-49)
OAS3 (p100; MGC133260)
G1P2 (G1P2; UCRP; IFI15)
OASL (TRIP14; p59OASL)
OASL (TRIP14; p59OASL)
Study Group
ISIT Study ID 10021/1 , ...
ISIT Study ID 10036/1 , ...
ISIT Study ID 10032/1 , ...
ISIT Study ID 10042/1 , ...
ISIT Study ID 10035/1 , ...
ISIT Study ID 10034/1 , ...
ISIT Study ID 10045/1 , ...
ISIT Study ID 10043/1 , ...
ISIT Study ID 10028/1 , ...
ISIT Study ID 10013/1 , ...
ISIT Study ID 10040/1 , ...
ISIT Study ID 10043/1 , ...
ISIT Study ID 10038/1 , ...
ISIT Study ID 10050/1 , ...
ISIT Study ID 10055/1 , ...
ISIT Study ID 10018/1 , ...
ISIT Study ID 10043/1 , ...
ISIT Study ID 10023/1 , ...
ISIT Study ID 10006/1 , ...
ISIT Study ID 10037/1 , ...
ISIT Study ID 10041/1 , ...
ISIT Study ID 10029/1 , ...
ISIT Study ID 10042/1 , ...
ISIT Study ID 10039/1 , ...
ISIT Study ID 10005/1 , ...
ISIT Study ID 10001/1 , ...
ISIT Study ID 10048/1 , ...
ISIT Study ID 10020/1 , ...
ISIT Study ID 10030/1 , ...
ISIT Study ID 10051/1 , ...
ISIT Study ID 10019/1 , ...
ISIT Study ID 10015/1 , ...
ISIT Study ID 10012/1 , ...
ISIT Study ID 10007/1 , ...
ISIT Study ID 10040/1 , ...
ISIT Study ID 10047/1 , ...
ISIT Study ID 10057/1 , ...
ISIT Study ID 10056/1 , ...
ISIT Study ID 10024/1 , ...
ISIT Study ID 10040/1 , ...
ISIT Study ID 10027/1 , ...
ISIT Study ID 10044/1 , ...
SELECTED GENE TREE: P22_42_08May08_TBNoRef_PAL2_2xUDALO_P<0.01BH_GOImmuneResponse(158)
SELECTED CONDITION TREE: P22_42_08May08_TBNoRef_PAL2_2xUDALO_P<0.01BH_GOImmuneResponse(158)
BRANCH COLOR PARAMETER: STUDY GROUP
COLORED BY: P22_42_08May08_TB_NoReference (DEFAULT INTERPRETATION)
GENE LIST: P22_42_08May08_TB_NoRef_PAL2_2xUDALO_P<0.01BH_GOImmuneResponse(158) (158)
ACTIVE PTB
LATENT TB
HEALTHY BCG NON-VACCINATED
HEALTHY BCG VACCINATED

FIG. 3C

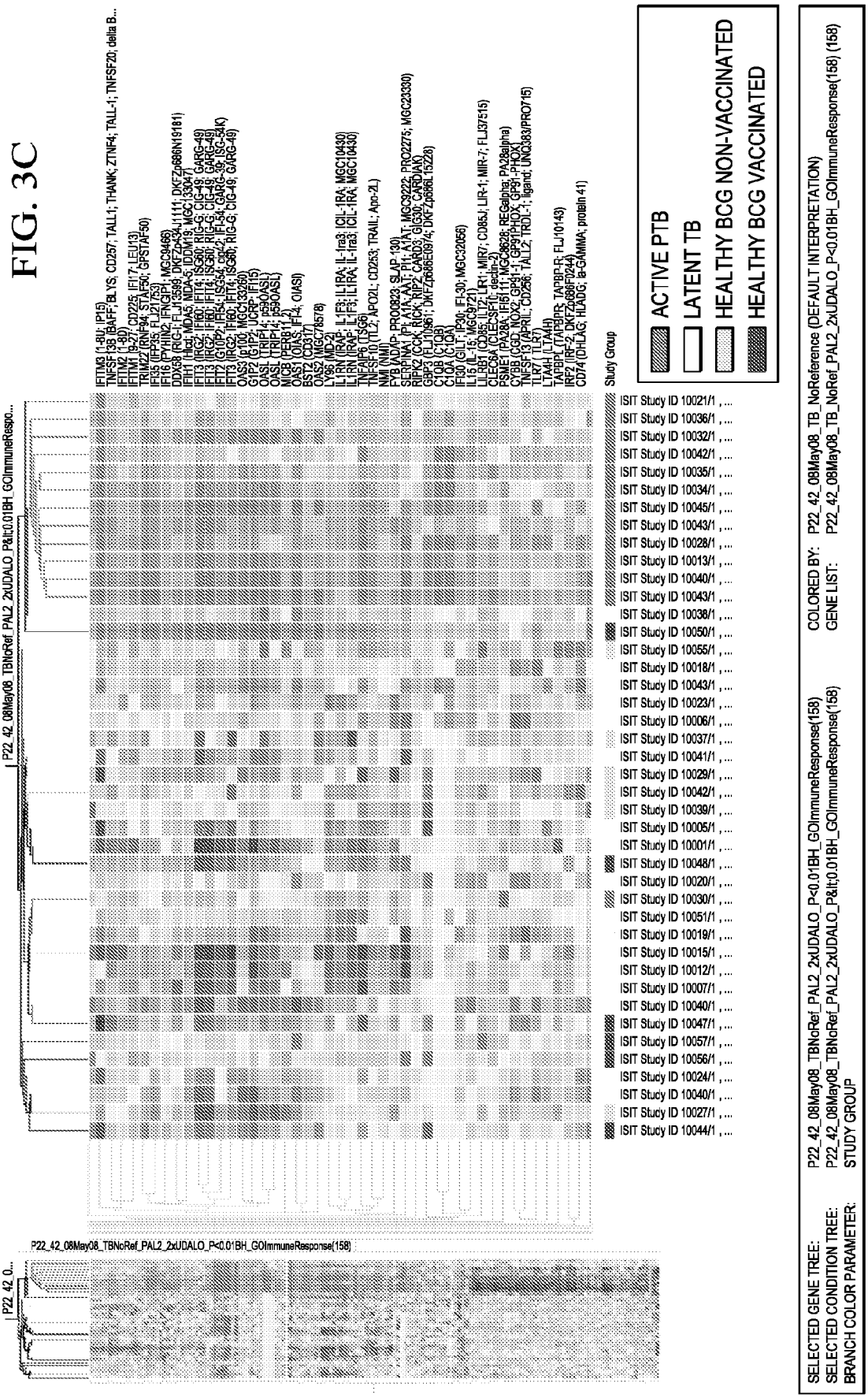

P22_42_08May08_TBNoRef_PAL2_2xUDALO_P<0.01BH_GOImmuneRespo...
P22_42_0...
P22_42_08May08_TBNoRef_PAL2_2xUDALO_P<0.01BH_GOImmuneResponse(158)
IFITM3 (1-8U; IP15)
TNFSF13B (BAFF; BLYS; CD257; TALL1; THANK; ZTNF4; TALL-1; TNFSF20; delta B...
IFITM2 (1-8D)
IFITM1 (9-27; CD225; IFI17; LEU13)
TRIM22 (RNF94; STAF50; SPSTAF50)
IFI35 (IFP35; FLJ21753)
IFI16 (PYHIN2; IFNGIP1; MGC9466)
DDX58 (RIG-I; FLJ13599; DKFZp434J111; DKFZp686N19181)
IFIH1 (Hlcf; MDA5; MDA-5; IDDM19; MGC133047)
IFIT3 (IRG2; IFI60; IFIT4; ISG60; RIG-G; CIG-49; G4RG-49)
IFIT3 (IRG2; IFI60; IFIT4; ISG60; RIG-G; CIG-49; G4RG-49)
IFIT2 (G10P2; IFI54; ISG54; cig-2; IFI-54; G4RG-39; ISG-54K)
IFIT3 (IRG2; IFI60; IFIT4; ISG60; RIG-G; CIG-49; G4RG-49)
OAS3 (p100; MGC133286)
G1P2 (G1P2; UCRP; IFI15)
OASL (TRIP14; p59OASL)
OASL (TRIP14; p59OASL)
MCB (PERB11.2)
OAS1 (OIAS; IFI4; OIASI)
BST2 (CD317)
OAS2 (MGC76578)
LY96 (MD-2)
IL1RN (IRAP; IL-1ra3; IL1RA; IL-1RA; MGC10430)
IL1RN (IRAP; IL-1ra3; IL1RA; IL-1RA; MGC10430)
TNFAIP6 (TSG6)
TNFSF10 (TL2; APO2L; CD253; TRAIL; Apo-2L)
NMI (NMI)
FYB (ADAP; PRO0823; SLAP-130)
SERPINA1 (PI; A1A; AAT; PI1; A1AT; MGC9222; PRO2276; MGC23330)
RIPK2 (CCK; RICK; RIP2; CARD3; GIG30; CARDIAK)
GBP3 (FLJ10961; DKFZp686E0974; DKFZp686L15228)
C1QB (C1QB)
C1QA (C1QA)
IFI30 (GILT; IP30; IFI-30; MGC32056)
IL15 (IL-15; MGC9721)
LILRB1 (CD85j; ILT2; LIR1; MIR7; CD85J; LIR-1; MIR-7; FLJ37515)
CLEC5A (CLECSF10; dectin-2)
PSME1 (PA28A; IFI511; MGC8628; REGalpha; PA28alpha)
CYBB (CGD; NOX2; GP91-1; GP91PHOX; GP91-PHOX)
TNFSF13 (APRIL; CD256; TALL2; TRDL-1; ligand; UNQ383/PRO715)
TLR7 (TLR7)
LTA4H (LTA4H)
TAPBPL (TAPBPR; TAPBP-R; FLJ10143)
IRF2 (IRF-2; DKFZp686F0244)
CD74 (DHLAG; HLADG; Ia-GAMMA; protein 41)
Study Group
ISIT Study ID 10021/1 , ...
ISIT Study ID 10036/1 , ...
ISIT Study ID 10032/1 , ...
ISIT Study ID 10042/1 , ...
ISIT Study ID 10035/1 , ...
ISIT Study ID 10034/1 , ...
ISIT Study ID 10045/1 , ...
ISIT Study ID 10043/1 , ...
ISIT Study ID 10028/1 , ...
ISIT Study ID 10013/1 , ...
ISIT Study ID 10040/1 , ...
ISIT Study ID 10043/1 , ...
ISIT Study ID 10038/1 , ...
ISIT Study ID 10050/1 , ...
ISIT Study ID 10055/1 , ...
ISIT Study ID 10018/1 , ...
ISIT Study ID 10043/1 , ...
ISIT Study ID 10023/1 , ...
ISIT Study ID 10006/1 , ...
ISIT Study ID 10037/1 , ...
ISIT Study ID 10041/1 , ...
ISIT Study ID 10029/1 , ...
ISIT Study ID 10042/1 , ...
ISIT Study ID 10039/1 , ...
ISIT Study ID 10005/1 , ...
ISIT Study ID 10001/1 , ...
ISIT Study ID 10048/1 , ...
ISIT Study ID 10020/1 , ...
ISIT Study ID 10030/1 , ...
ISIT Study ID 10051/1 , ...
ISIT Study ID 10019/1 , ...
ISIT Study ID 10015/1 , ...
ISIT Study ID 10012/1 , ...
ISIT Study ID 10007/1 , ...
ISIT Study ID 10040/1 , ...
ISIT Study ID 10047/1 , ...
ISIT Study ID 10057/1 , ...
ISIT Study ID 10056/1 , ...
ISIT Study ID 10024/1 , ...
ISIT Study ID 10040/1 , ...
ISIT Study ID 10027/1 , ...
ISIT Study ID 10044/1 , ...
ACTIVE PTB
LATENT TB
HEALTHY BCG NON-VACCINATED
HEALTHY BCG VACCINATED
SELECTED GENE TREE: P22_42_08May08_TBNoRef_PAL2_2xUDALO_P<0.01BH_GOImmuneResponse(158)
SELECTED CONDITION TREE: P22_42_08May08_TBNoRef_PAL2_2xUDALO_P<0.01BH_GOImmuneResponse(158)
BRANCH COLOR PARAMETER: STUDY GROUP
COLORED BY: P22_42_08May08_TB_NoReference (DEFAULT INTERPRETATION)
GENE LIST: P22_42_08May08_TB_NoRef_PAL2_2xUDALO_P<0.01BH_GOImmuneResponse(158) (158)

FIG. 3D

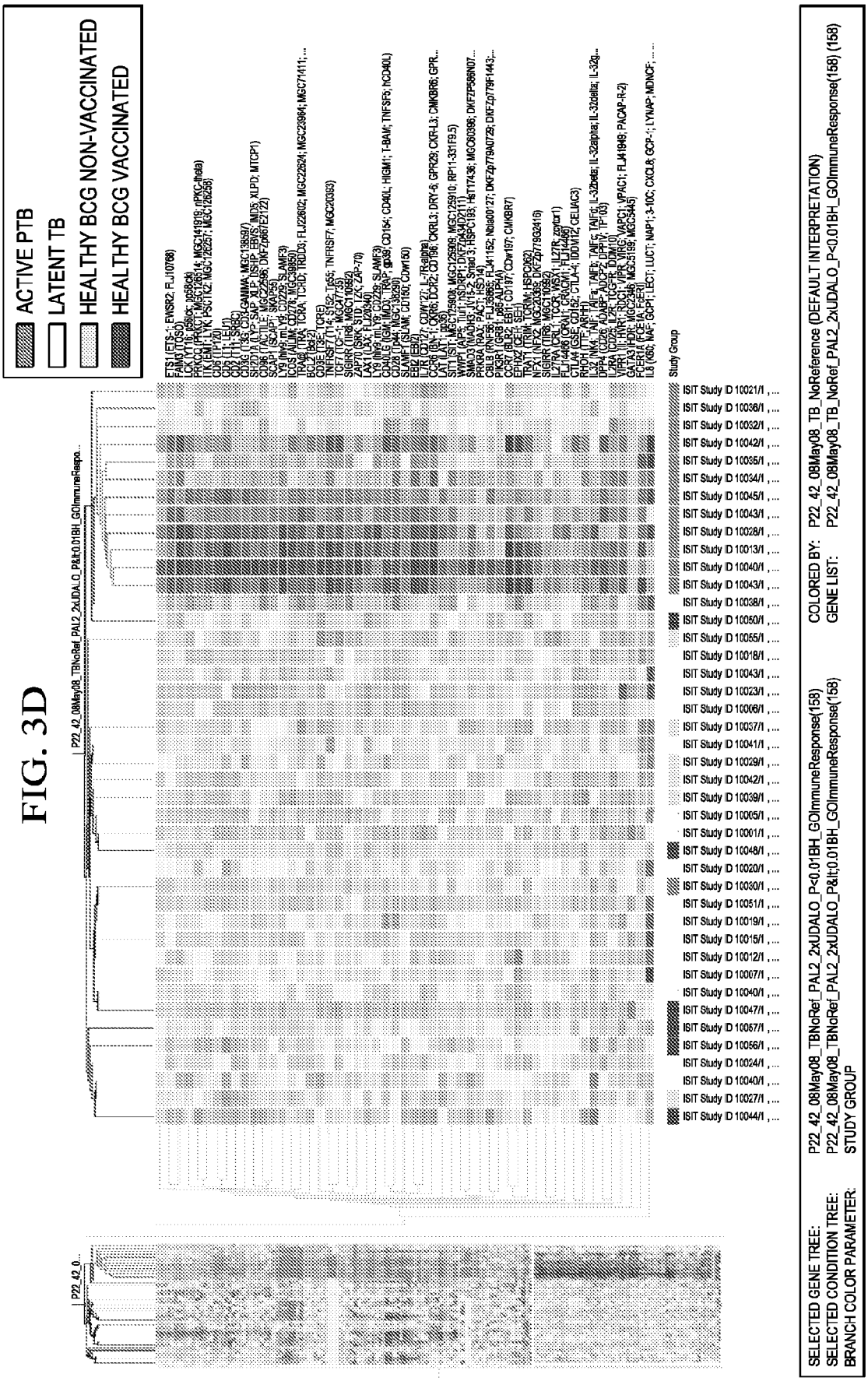

ACTIVE PTB
LATENT TB
HEALTHY BCG NON-VACCINATED
HEALTHY BCG VACCINATED
P22_42_08May08_TBNoRef_PAL2_2xUDALO_P<0.01BH_GOImmuneRespo...
P22_42_0...
Study Group
ISIT Study ID 10021/1 , ...
ISIT Study ID 10036/1 , ...
ISIT Study ID 10032/1 , ...
ISIT Study ID 10042/1 , ...
ISIT Study ID 10035/1 , ...
ISIT Study ID 10034/1 , ...
ISIT Study ID 10045/1 , ...
ISIT Study ID 10043/1 , ...
ISIT Study ID 10028/1 , ...
ISIT Study ID 10013/1 , ...
ISIT Study ID 10040/1 , ...
ISIT Study ID 10043/1 , ...
ISIT Study ID 10038/1 , ...
ISIT Study ID 10050/1 , ...
ISIT Study ID 10055/1 , ...
ISIT Study ID 10018/1 , ...
ISIT Study ID 10043/1 , ...
ISIT Study ID 10023/1 , ...
ISIT Study ID 10006/1 , ...
ISIT Study ID 10037/1 , ...
ISIT Study ID 10041/1 , ...
ISIT Study ID 10029/1 , ...
ISIT Study ID 10042/1 , ...
ISIT Study ID 10039/1 , ...
ISIT Study ID 10005/1 , ...
ISIT Study ID 10001/1 , ...
ISIT Study ID 10048/1 , ...
ISIT Study ID 10020/1 , ...
ISIT Study ID 10030/1 , ...
ISIT Study ID 10051/1 , ...
ISIT Study ID 10019/1 , ...
ISIT Study ID 10015/1 , ...
ISIT Study ID 10012/1 , ...
ISIT Study ID 10007/1 , ...
ISIT Study ID 10040/1 , ...
ISIT Study ID 10047/1 , ...
ISIT Study ID 10057/1 , ...
ISIT Study ID 10056/1 , ...
ISIT Study ID 10024/1 , ...
ISIT Study ID 10040/1 , ...
ISIT Study ID 10027/1 , ...
ISIT Study ID 10044/1 , ...
SELECTED GENE TREE: P22_42_08May08_TBNoRef_PAL2_2xUDALO_P<0.01BH_GOImmuneResponse(158)
SELECTED CONDITION TREE: P22_42_08May08_TBNoRef_PAL2_2xUDALO_P<0.01BH_GOImmuneResponse(158)
BRANCH COLOR PARAMETER: STUDY GROUP
COLORED BY: P22_42_08May08_TB_NoReference (DEFAULT INTERPRETATION)
GENE LIST: P22_42_08May08_TB_NoRef_PAL2_2xUDALO_P<0.01BH_GOImmuneResponse(158) (158)

FIG. 4

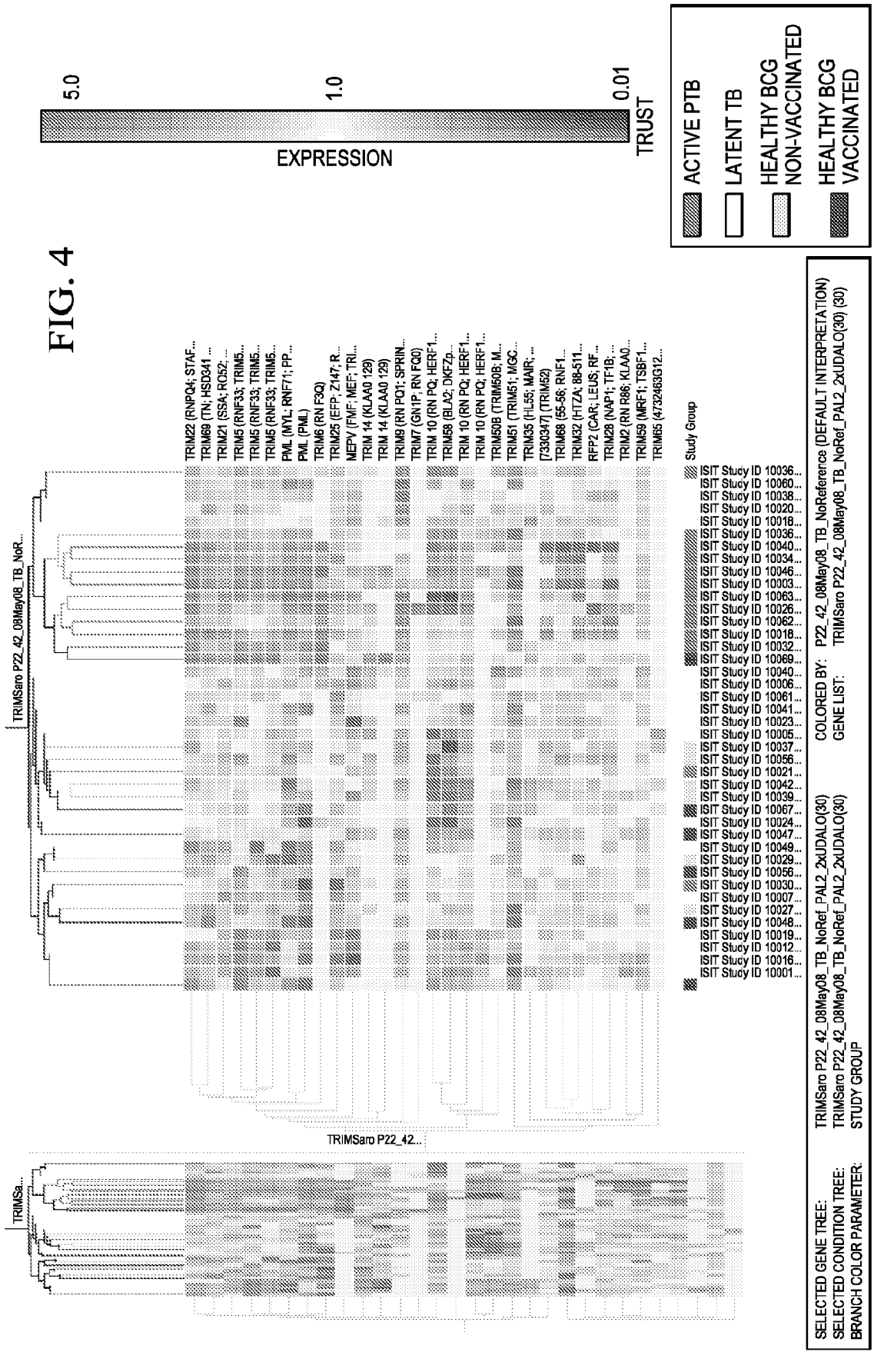
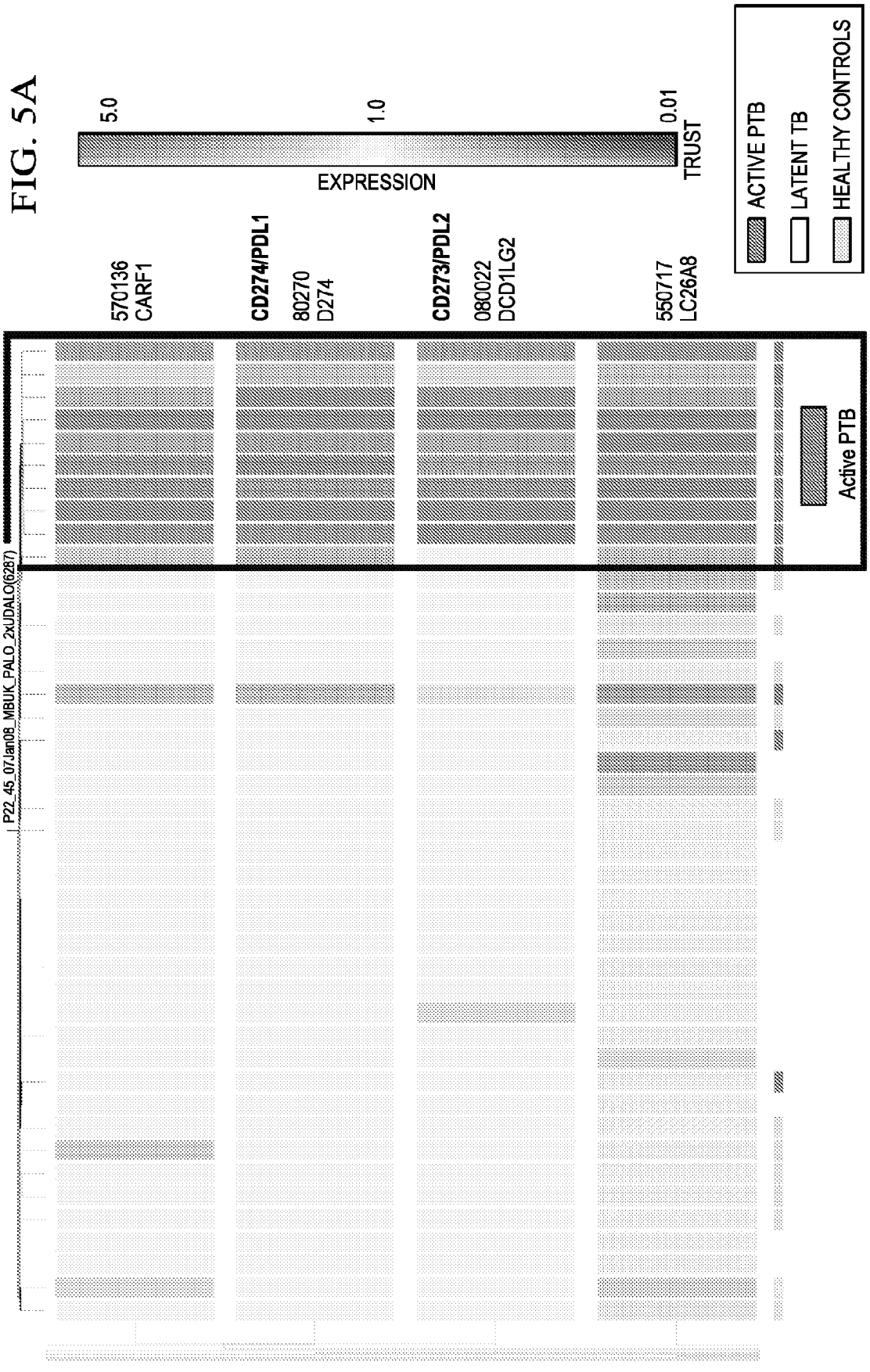

5.0
1.0
0.01
EXPRESSION
TRUST
ACTIVE PTB
LATENT TB
HEALTHY BCG
NON-VACCINATED
HEALTHY BCG
VACCINATED
TRIMSaro P22_42_08May08_TB_NoR...
TRIMSaro P22_42...
TRIMSa...
Study Group
SELECTED GENE TREE: TRIMSaro P22_42_08May08_TB_NoRef_PAL2_2xUDALO(30)
SELECTED CONDITION TREE: TRIMSaro P22_42_08May08_TB_NoRef_PAL2_2xUDALO(30)
BRANCH COLOR PARAMETER: STUDY GROUP
COLORED BY: P22_42_08May08_TB_NoReference (DEFAULT INTERPRETATION)
GENE LIST: TRIMSaro P22_42_08May08_TB_NoRef_PAL2_2xUDALO(30) (30)

FIG. 5A


5.0
1.0
0.01
EXPRESSION
TRUST
ACTIVE PTB
LATENT TB
HEALTHY CONTROLS
570136
CARF1
CD274/PDL1
80270
D274
CD273/PDL2
080022
DCD1LG2
550717
LC26A8
Active PTB
P22_45_07Jan08_MBUK_PALO_2xUDALO(6287)

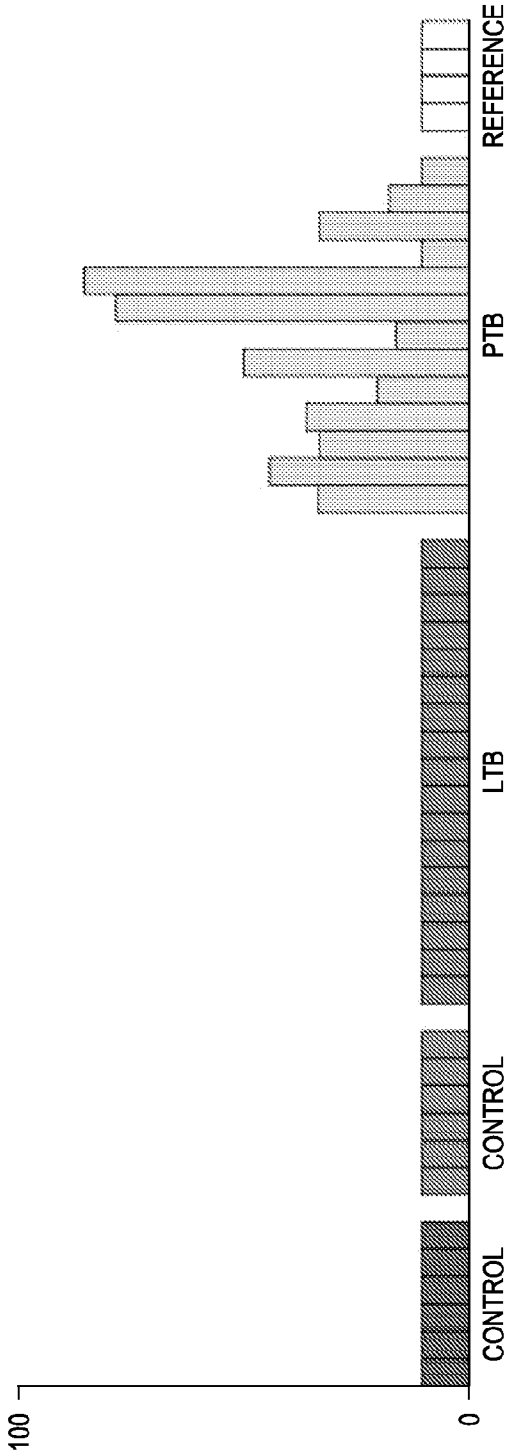


FIG. 5B

FIG. 6

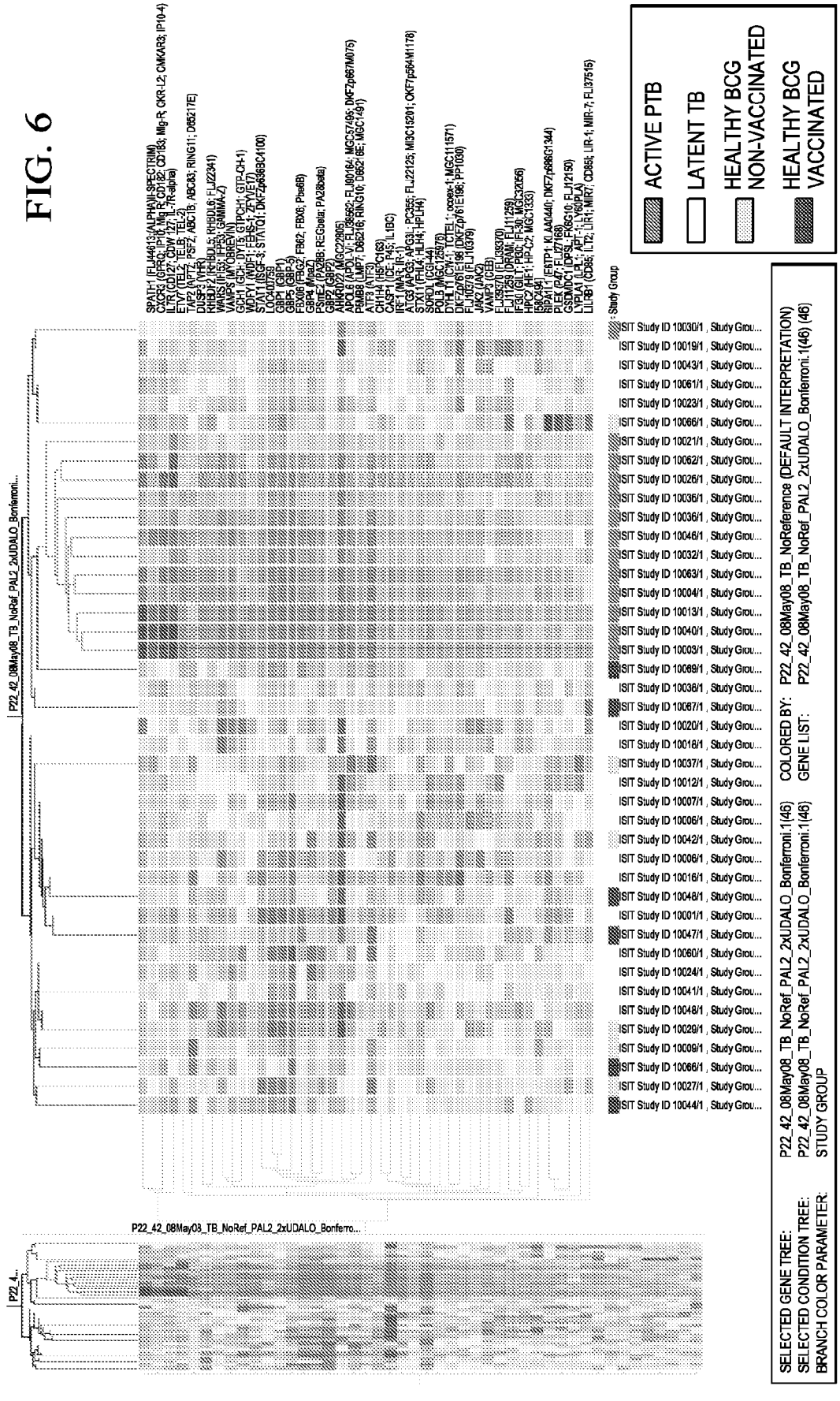
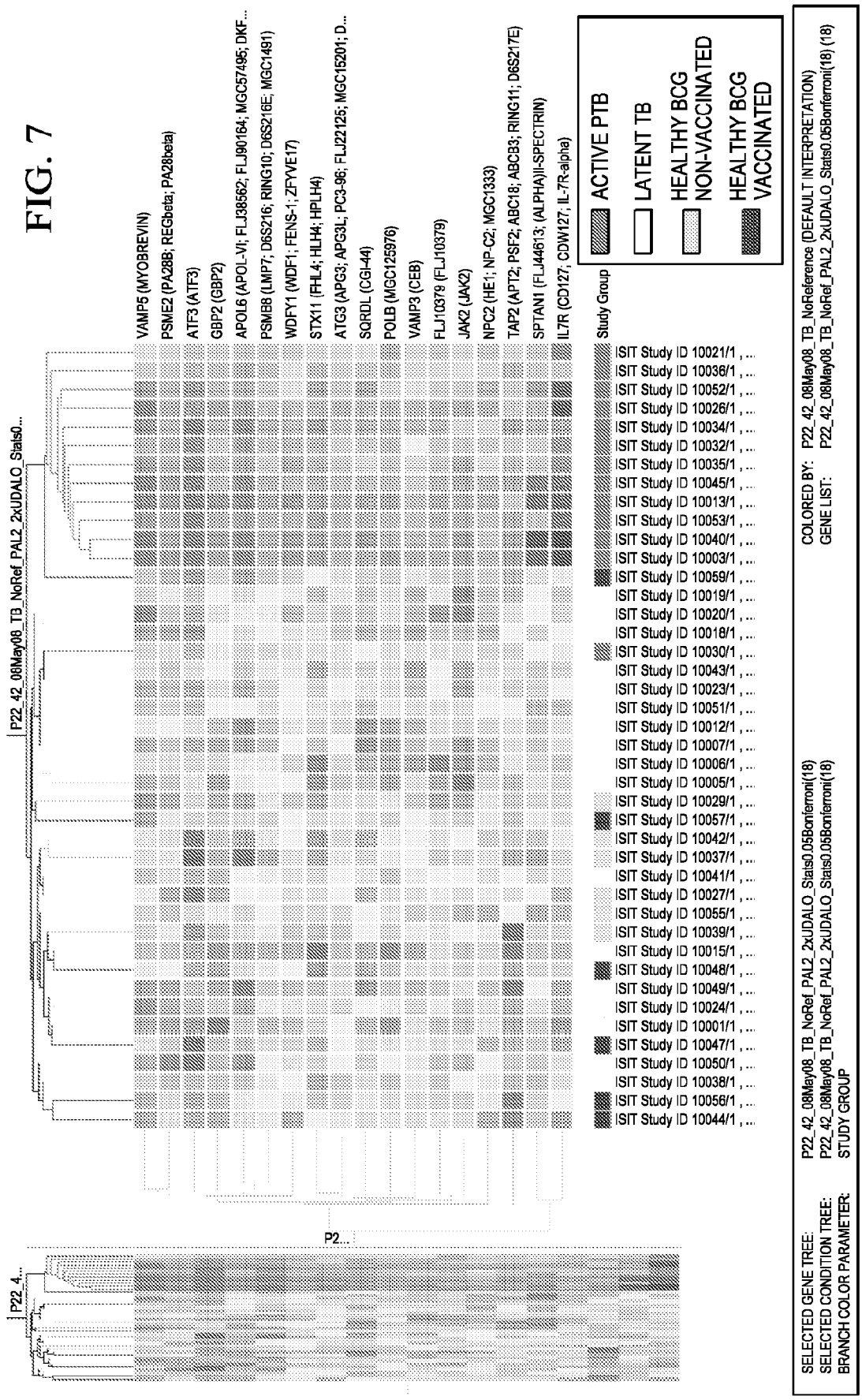

P22_42_08May08_TB_NoRef_PAL2_2xUDALO_Bonferroni...
P22_42_08May03_TB_NoRef_PAL2_2xUDALO_Bonferro...
P22_4...
SPATA1 (FLJ44613 (ALPHA)); SPECTRIM)
SYCP3 (GRCP3; P3; Myc P; CT12; CP3)
LATR (CD127; CDW 127; IL-7Ralpha)
ETV7 (TEL2; TELB; TEL-2)
TAP2 (APT2; PSF2; ABC18; ABCB3; RING11; D6S217E)
DUSP3 (VHR)
RHBDF2 (RHBDL5; RHBDL6; FLJ22341)
VAMP8 (MYOBREVIN)
GPX1 (CGPx; GTPOX1; GTP-CH-1)
MYO1F (MYO1; FLJ14717; ZAYIN-1)
OGG1 (HOGG1; HMMH-3; EPM5C); STAT1 (DKFZp686B04100)
GBP1 (GBP1)
GBP5 (GBP-5)
FBXO6 (FBG2; FBG2; FBX6; Pbe6B)
GBP4 (Mpaz)
PSme2 (PA28B; REGbeta; PA28beta)
GBP2 (GBP2)
ADAR (DSRAD; IFI-4; IFI-804; MGC22805)
AOAH (LPH; LPH1; DJ1E23.6.2; FLJ00164; MGC57405; DKFZp667M075)
PARP9 (BAL; BAL1; DKFZp686B20216; RING10; D6S216; MGC1491)
ATF3 (LRF1)
CH11-4 (H5; CH-11; CH16)
CASP1 (ICE; P45; IL1BC)
IRF1 (MAR; IR-1)
ATG5 (APG5; APG5L; FLJ22125; MI3C16201; OKF7p564M1178)
STX11 (FHL4; HLH4; HPLH4)
SOHO1 (C9orf44)
POLL (MGC123578)
DYNLT1 (C12orf9; TCTEL1; ocsen-1; MGC111571)
PLK3 (CPK; DNF; FLJ10679; DKFZp761E198; PPF1030)
JAK2 (JAK2)
VAMP3 (CEB)
FLJ33570 (FLJ33570)
FLJ11259 (DRAM; FLJ11259)
IFI30 (GILT; PI30; IFI-30; MGC20056)
HPCY (HH1; HIP-CP; MGC1333)
B3GAT1 (B3GAT1; FLJ14440; DKFZp686G1344)
BIRC1 (NAIP; NAIP1; FLJ14440)
GSDMDC1 (DFNB59; FLJ36310; FLJ12159)
LYPLA1 (LPL; APT-1; LYPLA)
LILRB1 (CD85j; LIR2; ILT2; LIR1; MIR7; CD85j; LIR-1; MIR-7; FLJ37515)
Study Group
ISIT Study ID 10030/1 , Study Grou...
ISIT Study ID 10019/1 , Study Grou...
ISIT Study ID 10043/1 , Study Grou...
ISIT Study ID 10061/1 , Study Grou...
ISIT Study ID 10023/1 , Study Grou...
ISIT Study ID 10066/1 , Study Grou...
ISIT Study ID 10021/1 , Study Grou...
ISIT Study ID 10062/1 , Study Grou...
ISIT Study ID 10026/1 , Study Grou...
ISIT Study ID 10035/1 , Study Grou...
ISIT Study ID 10036/1 , Study Grou...
ISIT Study ID 10046/1 , Study Grou...
ISIT Study ID 10032/1 , Study Grou...
ISIT Study ID 10063/1 , Study Grou...
ISIT Study ID 10004/1 , Study Grou...
ISIT Study ID 10013/1 , Study Grou...
ISIT Study ID 10040/1 , Study Grou...
ISIT Study ID 10003/1 , Study Grou...
ISIT Study ID 10069/1 , Study Grou...
ISIT Study ID 10035/1 , Study Grou...
ISIT Study ID 10067/1 , Study Grou...
ISIT Study ID 10020/1 , Study Grou...
ISIT Study ID 10018/1 , Study Grou...
ISIT Study ID 10037/1 , Study Grou...
ISIT Study ID 10012/1 , Study Grou...
ISIT Study ID 10007/1 , Study Grou...
ISIT Study ID 10006/1 , Study Grou...
ISIT Study ID 10042/1 , Study Grou...
ISIT Study ID 10005/1 , Study Grou...
ISIT Study ID 10016/1 , Study Grou...
ISIT Study ID 10048/1 , Study Grou...
ISIT Study ID 10001/1 , Study Grou...
ISIT Study ID 10047/1 , Study Grou...
ISIT Study ID 10060/1 , Study Grou...
ISIT Study ID 10024/1 , Study Grou...
ISIT Study ID 10041/1 , Study Grou...
ISIT Study ID 10048/1 , Study Grou...
ISIT Study ID 10029/1 , Study Grou...
ISIT Study ID 10009/1 , Study Grou...
ISIT Study ID 10065/1 , Study Grou...
ISIT Study ID 10027/1 , Study Grou...
ISIT Study ID 10044/1 , Study Grou...
ACTIVE PTB
LATENT TB
HEALTHY BCG
NON-VACCINATED
HEALTHY BCG
VACCINATED
SELECTED GENE TREE: P22_42_08May08_TB_NoRef_PAL2_2xUDALO_Bonferroni.1(46)
SELECTED CONDITION TREE: P22_42_08May08_TB_NoRef_PAL2_2xUDALO_Bonferroni.1(46)
BRANCH COLOR PARAMETER: STUDY GROUP
COLORED BY: P22_42_08May08_TB_NoReference (DEFAULT INTERPRETATION)
GENE LIST: P22_42_08May08_TB_NoRef_PAL2_2xUDALO_Bonferroni.1(46) (46)

FIG. 7



SUBSTITUTE SHEET (RULE 26)

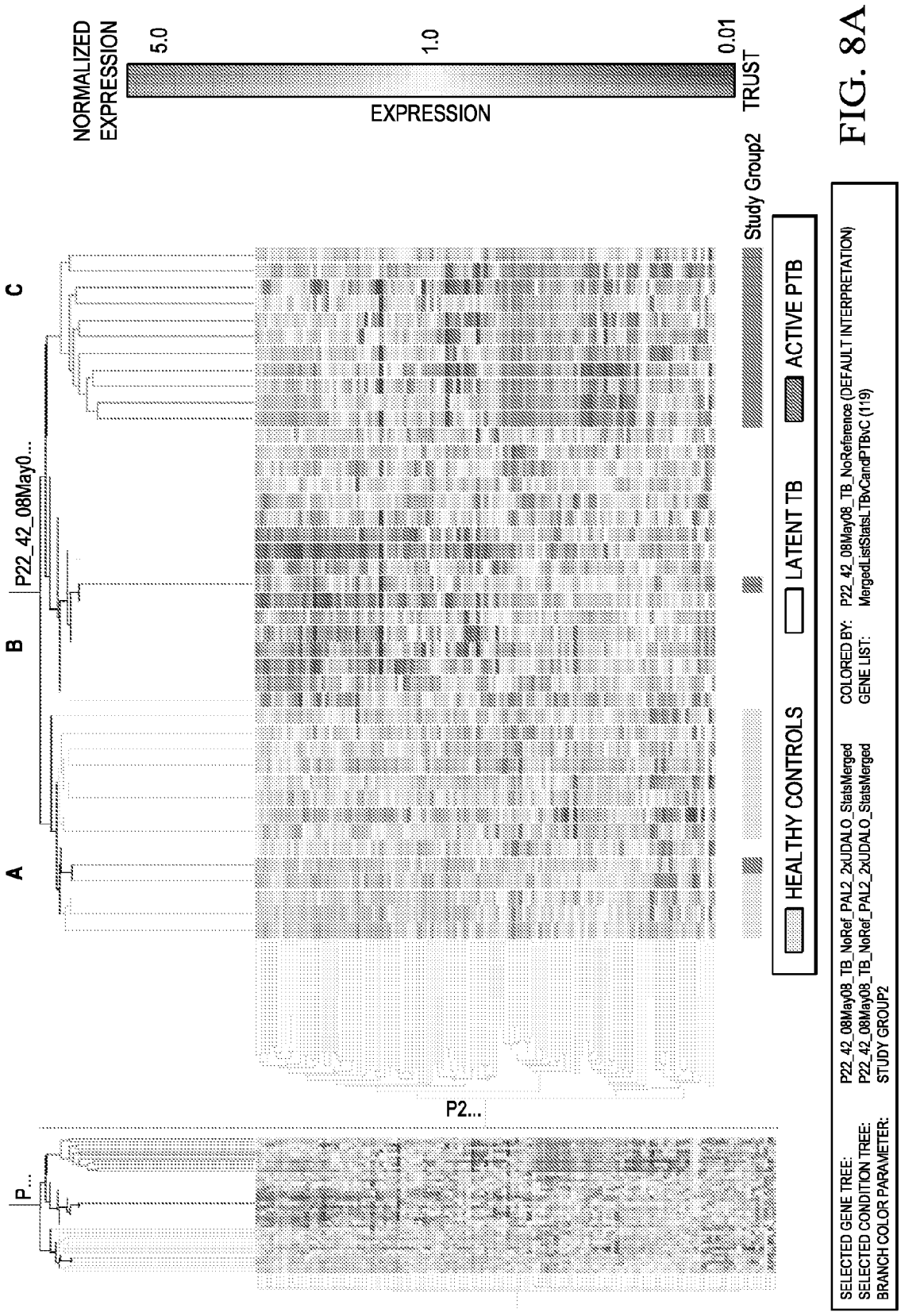

NORMALIZED EXPRESSION
5.0
1.0
0.01
EXPRESSION
TRUST
Study Group2
A
B
C
P22_42_08May0...
P2...
P...
HEALTHY CONTROLS
LATENT TB
ACTIVE PTB
SELECTED GENE TREE: P22_42_08May08_TB_NoRef_PAL2_2xUDALO_StatsMerged
SELECTED CONDITION TREE: P22_42_08May08_TB_NoRef_PAL2_2xUDALO_StatsMerged
BRANCH COLOR PARAMETER: STUDY GROUP2
COLORED BY: P22_42_08May08_TB_NoReference (DEFAULT INTERPRETATION)
GENE LIST: MergedListStatsLTBvCandPTBvC (119)

FIG. 8A

FIG. 8B

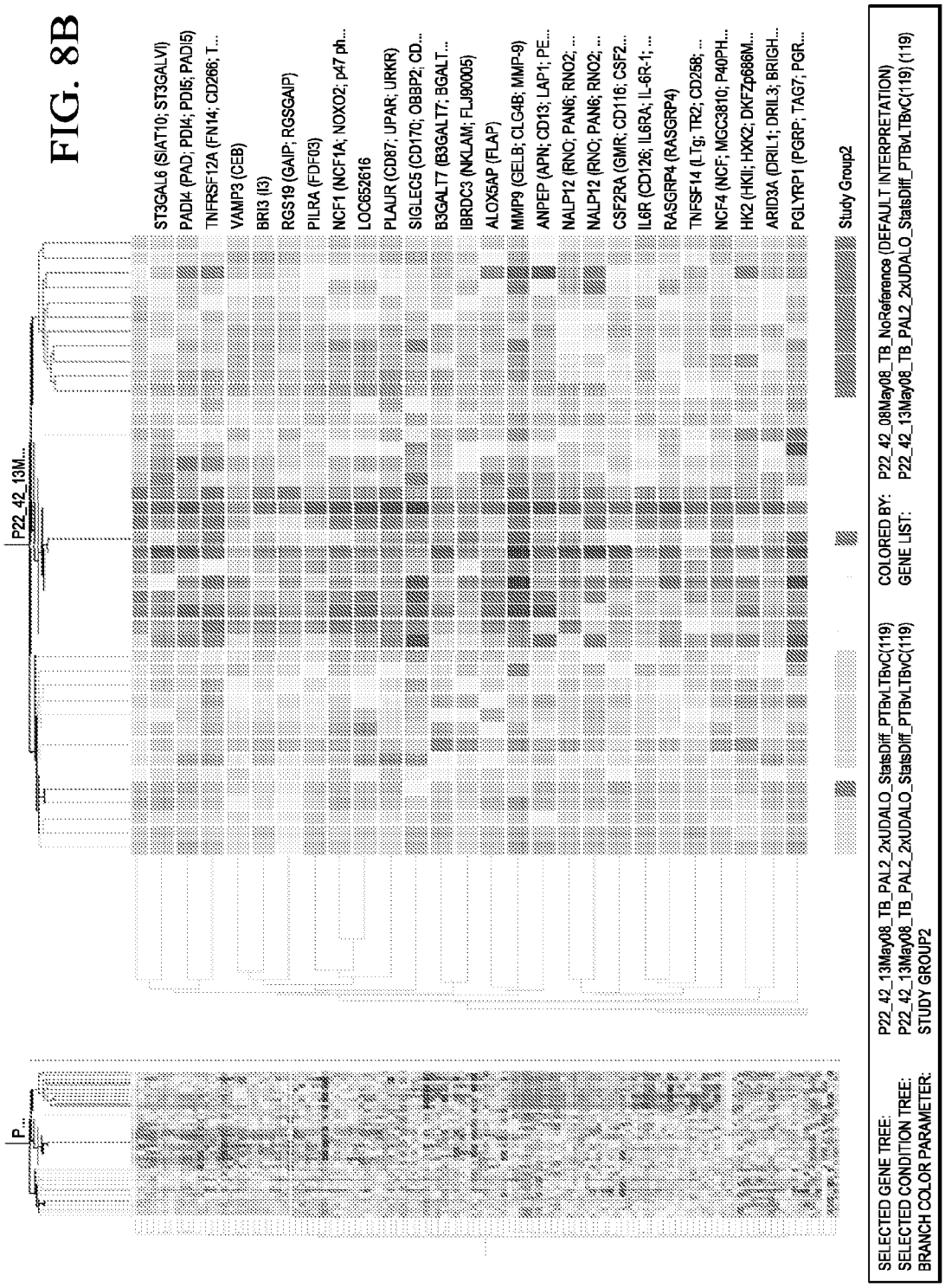

A
B
C
P22_42_13M...
P...
ST3GAL6 (SIAT10; ST3GALVI)
PADI4 (PAD; PDI4; PDI5; PADI5)
TNFRSF12A (FN14; CD266; T...
VAMP3 (CEB)
BRI3 (I3)
RGS19 (GAIP; RGSGAIP)
PILRA (FDF03)
NCF1 (NCF1A; NOXO2; p47 ph...
LOC652616
PLAUR (CD87; UPAR; URKR)
SIGLEC5 (CD170; OBBP2; CD...
B3GALT7 (B3GALT7; BGALT...
IBRDC3 (NKLAM; FLJ90005)
ALOX5AP (FLAP)
MMP9 (GELB; CLG4B; MMP-9)
ANPEP (APN; CD13; LAP1; PE...
NALP12 (RNO; PAN6; RNO2; ...
NALP12 (RNO; PAN6; RNO2; ...
CSF2RA (GMR; CD116; CSF2...
IL6R (CD126; IL6RA; IL-6R-1; ...
RASGRP4 (RASGRP4)
TNFSF14 (LTg; TR2; CD258; ...
NCF4 (NCF; MGC3810; P40PH...
HK2 (HKII; HXK2; DKFZp686M...
ARID3A (DRIL1; DRIL3; BRIGH...
PGLYRP1 (PGRP; TAG7; PGR...
Study Group2
SELECTED GENE TREE: P22_42_13May08_TB_PAL2_2xUDALO_StatsDiff_PTBvLTBvC(119)
SELECTED CONDITION TREE: P22_42_13May08_TB_PAL2_2xUDALO_StatsDiff_PTBvLTBvC(119)
BRANCH COLOR PARAMETER: STUDY GROUP2
COLORED BY: P22_42_08May08_TB_NoReference (DEFAULT INTERPRETATION)
GENE LIST: P22_42_13May08_TB_PAL2_2xUDALO_StatsDiff_PTBvLTBvC(119) (119)

FIG. 8C

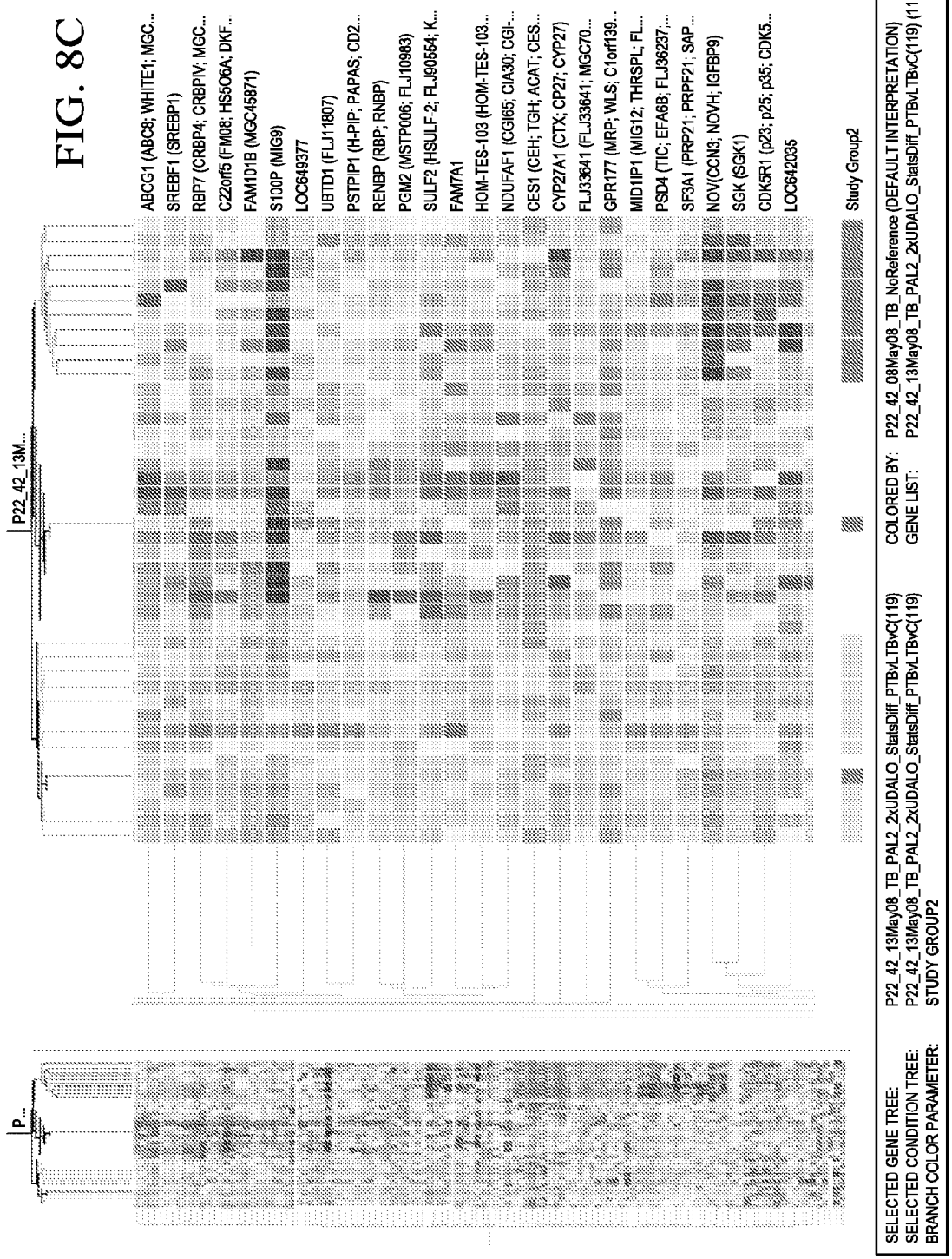

A
B
C
P22_42_13M...
ABCG1 (ABC8; WHITE1; MGC...
SREBF1 (SREBP1)
RBP7 (CRBP4; CRBPIV; MGC...
C22orf5 (FM08; HS5O6A; DKF...
FAM101B (MGC45871)
S100P (MIG9)
LOC649377
UBTD1 (FLJ11807)
PSTPIP1 (H-PIP; PAPAS; CD2...
RENBP (RBP; RNBP)
PGM2 (MSTP006; FLJ10983)
SULF2 (HSULF-2; FLJ90554; K...
FAM7A1
HOM-TES-103 (HOM-TES-103...
NDUFAF1 (CGI65; CIA30; CGI-...
CES1 (CEH; TGH; ACAT; CES...
CYP27A1 (CTX; CP27; CYP27)
FLJ33641 (FLJ33641; MGC70...
GPR177 (MRP; WLS; C1orf139...
MID1IP1 (MIG12; THRSPL; FL...
PSD4 (TIC; EFA6B; FLJ36237;...
SF3A1 (PRP21; PRPF21; SAP ...
NOV(CCN3; NOVH; IGFBP9)
SGK (SGK1)
CDK5R1 (p23; p25; p35; CDK5...
LOC642035
Study Group2
SELECTED GENE TREE: P22_42_13May08_TB_PAL2_2xUDALO_StatsDiff_PTBvLTBvC(119)
SELECTED CONDITION TREE: P22_42_13May08_TB_PAL2_2xUDALO_StatsDiff_PTBvLTBvC(119)
BRANCH COLOR PARAMETER: STUDY GROUP2
COLORED BY: P22_42_08May08_TB_NoReference (DEFAULT INTERPRETATION)
GENE LIST: P22_42_13May08_TB_PAL2_2xUDALO_StatsDiff_PTBvLTBvC(119) (119)

FIG. 8D

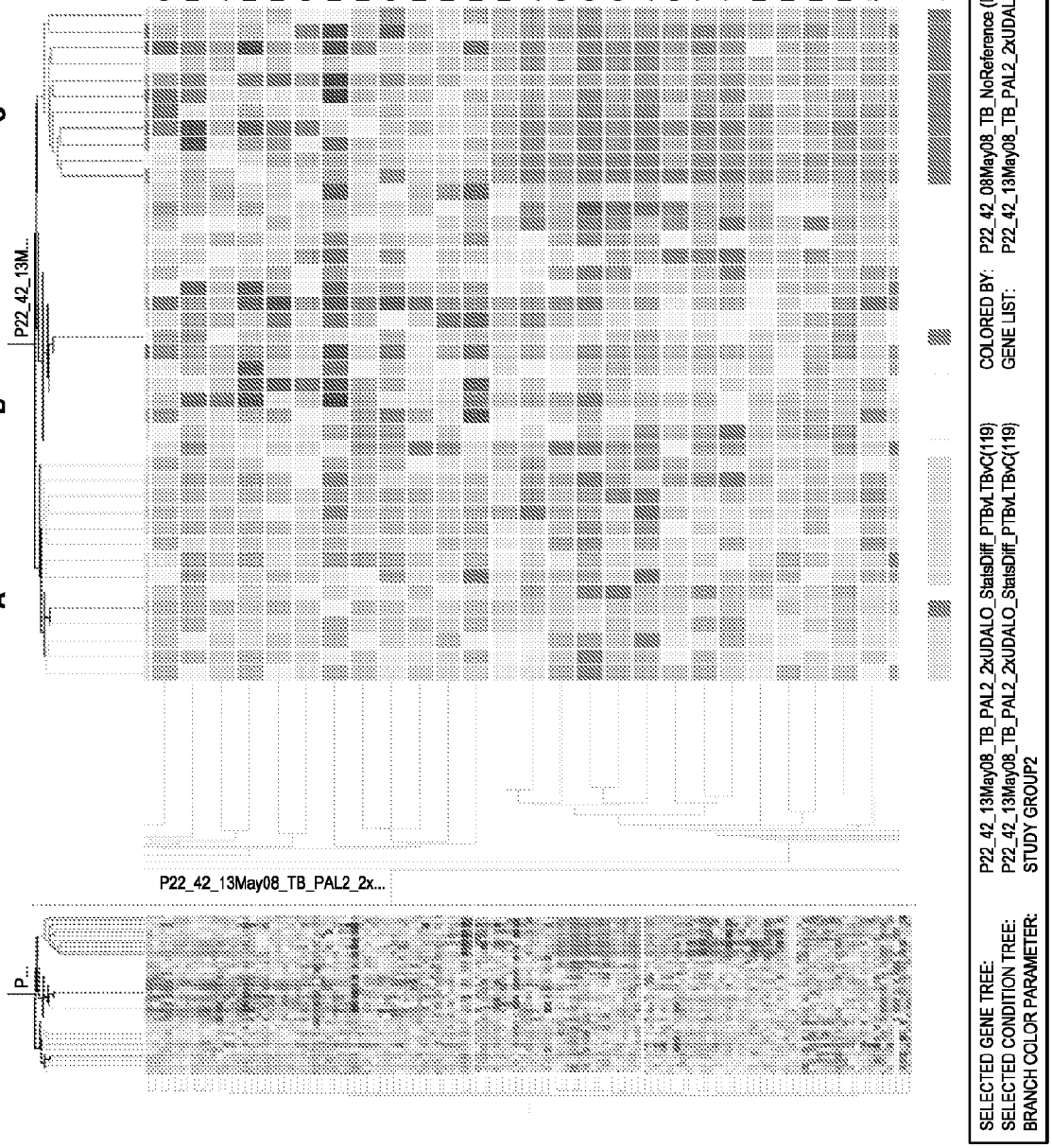

A
B
C
P22_42_13M...
P22_42_13May08_TB_PAL2_2x...
CDK5R1 (p23; p25; p35; CDK5...
LOC642035
ARSG (KIAA1001)
LOC284757
MDM4 (MDMX; MRP1; MGC13...
CRNKL1 (CLF; CRN; HCRN; SY...
ILB (K60; NAF; GCP1; LECT; L...
LOC389541 (LOC389541; MG...
CD300LB (CLM7; IREM3; TRE...
NIN (KIAA1565)
PHKG2 (PHKG2)
HIP1 (ILWEQ; MGC126506)
PSMB8 (LMP7; D6S216; RING...
APOL6 (APOL-VI; FLJ38562; F...
GBP2 (GBP2)
GBP5 (GBP-5)
GBP4 (Mpa2)
ATF3 (ATF3)
GCH1 (GCH; DYT5; GTPCH1; ...
VAMP5 (MYOBREVIN)
WARS (IFI53; IFP53; GAMMA-2)
LIMK1
NPC2 (HE1; NP-C2; MGC1333)
IL15 (IL-15; MGC9721)
LMTK2 (BREK; KPI2; LMR2; c...
STX11 (FHL4; HLH4; HPLH4)
Study Group2
SELECTED GENE TREE: P22_42_13May08_TB_PAL2_2xUDALO_StatsDiff_PTBvLTBvC(119)
SELECTED CONDITION TREE: P22_42_13May08_TB_PAL2_2xUDALO_StatsDiff_PTBvLTBvC(119)
BRANCH COLOR PARAMETER: STUDY GROUP2
COLORED BY: P22_42_08May08_TB_NoReference (DEFAULT INTERPRETATION)
GENE LIST: P22_42_13May08_TB_PAL2_2xUDALO_StatsDiff_PTBvLTBvC(119) (119)

FIG. 8E

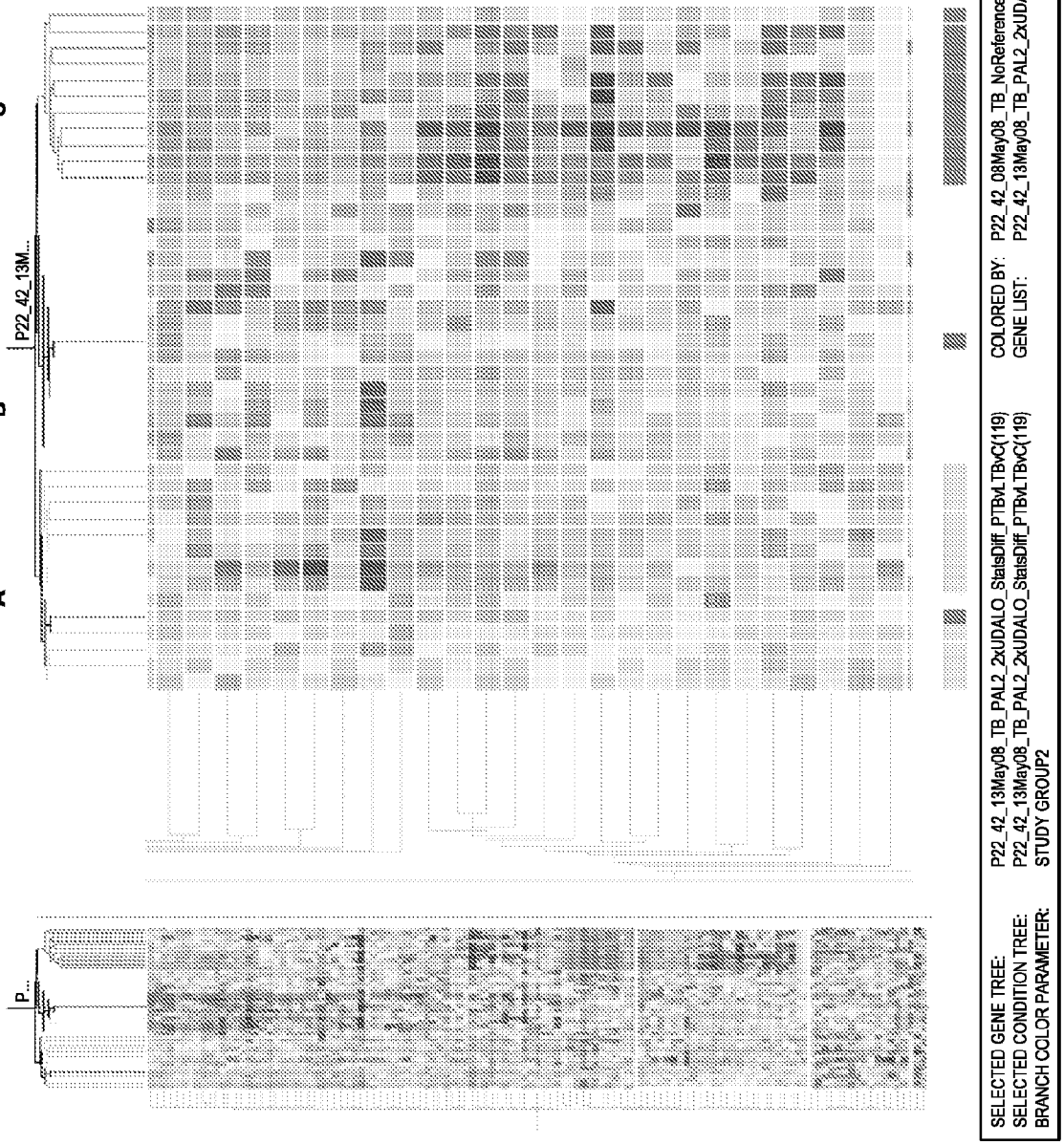
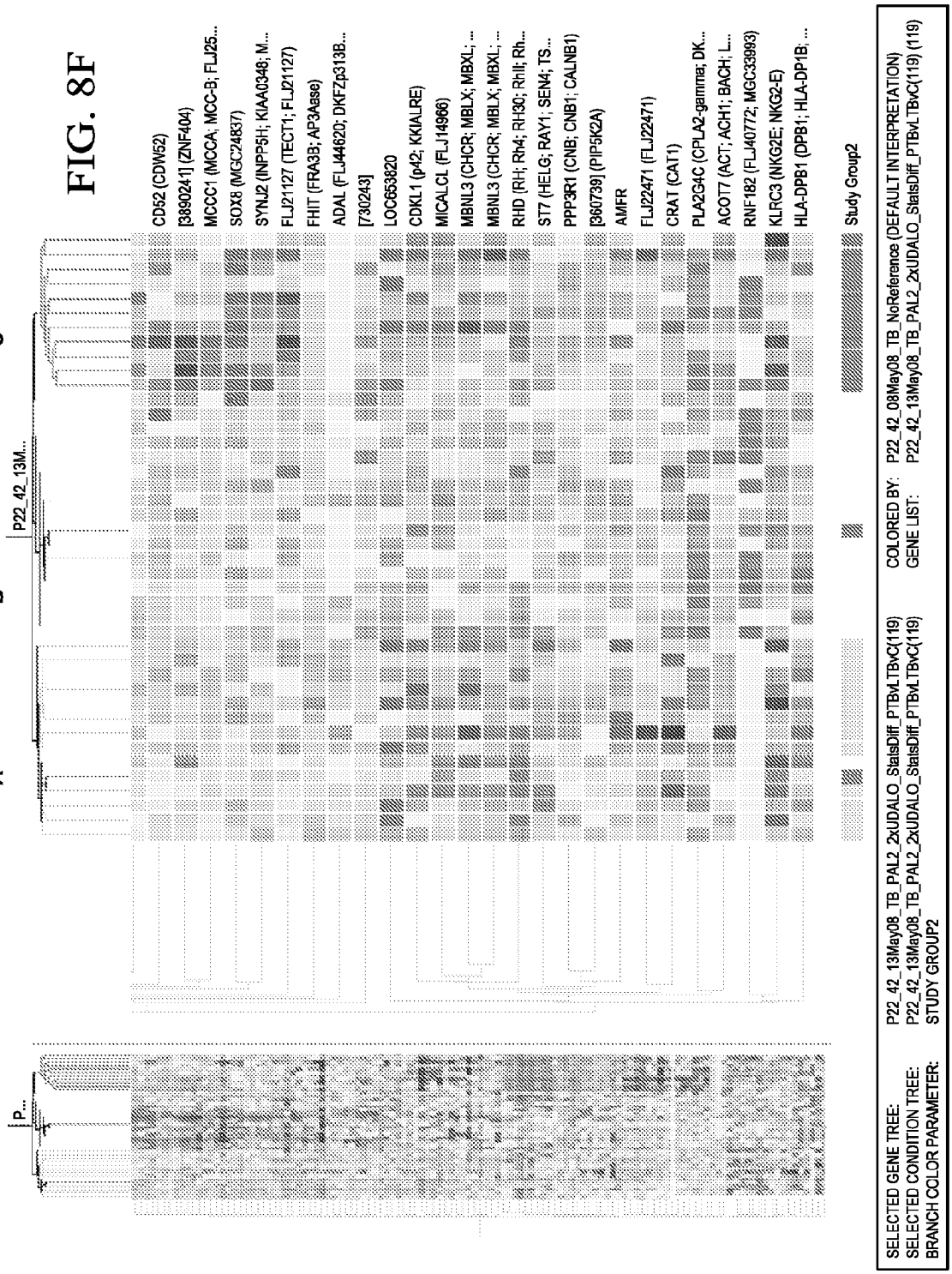

A
B
C
P22_42_13M...
LMTK2 (BREK; KPI2; LMR2; c...
STX11 (FHL4; HLH4; HPLH4)
FLJ11259 (DRAM; FLJ11259)
JAK2 (JAK2)
GSDMDC1 (DF5L; FKSG10; FL...
SIPA1L1 (E6TP1; KIAA0440; ...
[2680400] (KIAA1632)
ACTA2 (ACTSA)
KCNMB1 (SLO-BETA; hslo-bet...
SPTAN1 (FLJ44613; (ALPHA)II...
KIAA0179 (Nnp1; RRP1; KIAA...
FAM84B (NSE2; BCMP101)
SELM (SELM; SEPM; MGC40...
IL27RA (CRL1; TCCR; WSX1; I...
MRPS34 (MGC2616; MRP-S1...
[69402246] (IL23A)
PRKCA (AAG6; PKCA; PRKAC...
CCDC41 (MGC149726; NY-RE...
CD52 (CDW52)
[38902241] (ZNF404)
MCCC1 (MCCA; MCC-B; FLJ25...
SOX8 (MGC24837)
SYNJ2 (INPP5H; KIAA0348; M...
FLJ21127 (TECT1; FLJ21127)
FHIT (FRA3B; AP3Aase)
ADAL (FLJ44620; DKFZp313B...
Study Group2
SELECTED GENE TREE: P22_42_13May08_TB_PAL2_2xUDALO_StatisDiff_PTBvLTBvC(119)
SELECTED CONDITION TREE: P22_42_13May08_TB_PAL2_2xUDALO_StatisDiff_PTBvLTBvC(119)
BRANCH COLOR PARAMETER: STUDY GROUP2
COLORED BY: P22_42_08May08_TB_NoReference (DEFAULT INTERPRETATION)
GENE LIST: P22_42_13May08_TB_PAL2_2xUDALO_StatisDiff_PTBvLTBvC(119) (119)

FIG. 8F


A
B
C
P...
P22_42_13M...
CD52 (CDW52)
[3890241] (ZNF404)
MCCC1 (MCCA; MCC-B; FLJ25...
SOX8 (MGC24837)
SYNJ2 (INPP5H; KIAA0348; M...
FLJ21127 (TECT1; FLJ21127)
FHIT (FRA3B; AP3Aase)
ADAL (FLJ44620; DKFZp313B...
[730243]
LOC653820
CDKL1 (p42; KKIALRE)
MICALCL (FLJ14986)
MBNL3 (CHCR; MBLX; MBXL; ...
MBNL3 (CHCR; MBLX; MBXL; ...
RHD (RH; Rh4; RH30; Rhll; Rh...
ST7 (HELG; RAY1; SEN4; TS...
PPP3R1 (CNB; CNB1; CALNB1)
[360739] (PIP5K2A)
AMFR
FLJ22471 (FLJ22471)
CRAT (CAT1)
PLA2G4C (CPLA2-gamma; DK...
ACOT7 (ACT; ACH1; BACH; L...
RNF182 (FLJ40772; MGC33993)
KLRC3 (NKG2E; NKG2-E)
HLA-DPB1 (DPB1; HLA-DP1B; ...
Study Group2
SELECTED GENE TREE: P22_42_13May08_TB_PAL2_2xUDALO_StatisDiff_PTBvLTBvC(119)
SELECTED CONDITION TREE: P22_42_13May08_TB_PAL2_2xUDALO_StatisDiff_PTBvLTBvC(119)
BRANCH COLOR PARAMETER: STUDY GROUP2
COLORED BY: P22_42_08May08_TB_NoReference (DEFAULT INTERPRETATION)
GENE LIST: P22_42_13May08_TB_PAL2_2xUDALO_StatisDiff_PTBvLTBvC(119) (119)

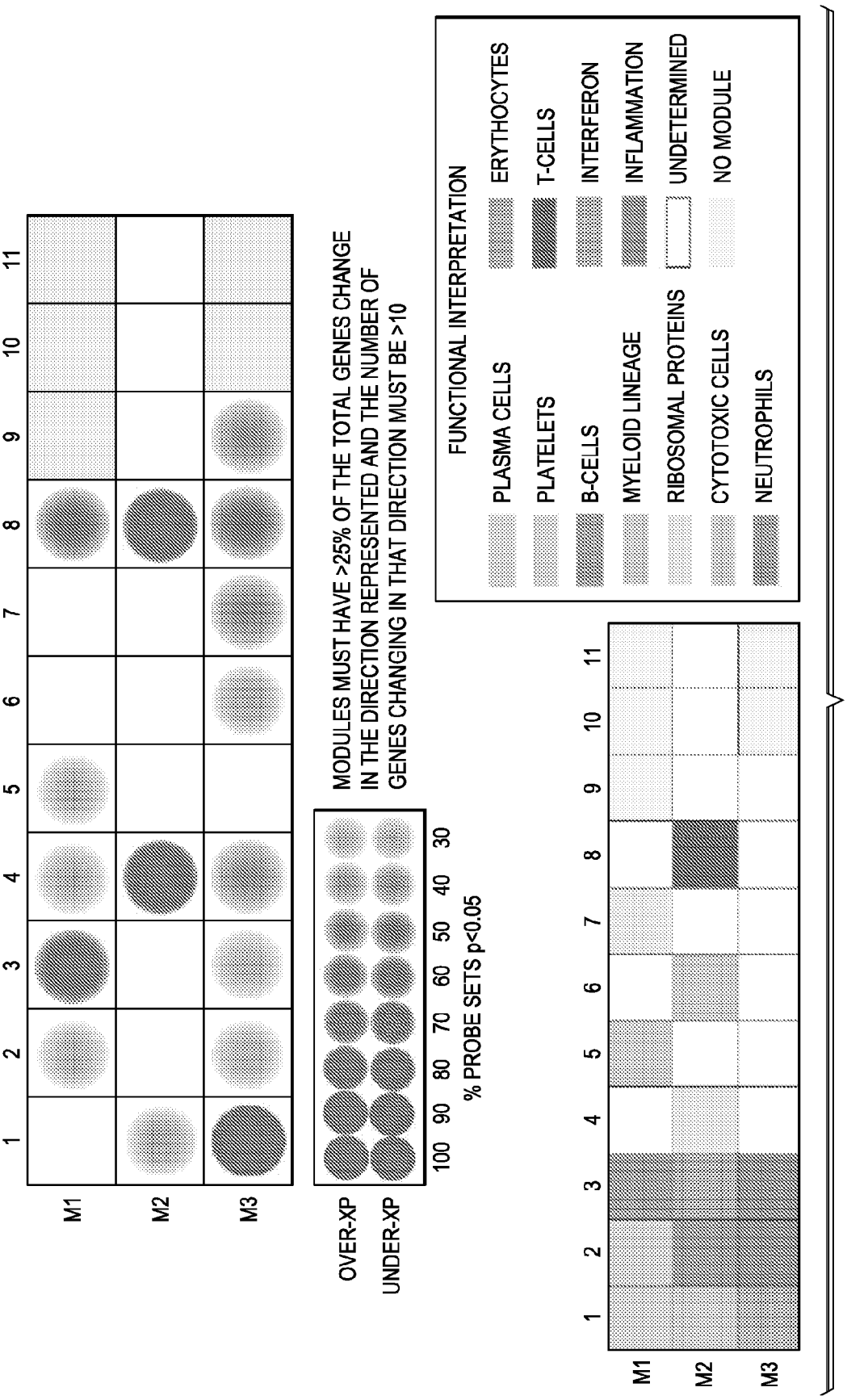

1 2 3 4 5 6 7 8 9 10 11
M1
M2
M3
MODULES MUST HAVE >25% OF THE TOTAL GENES CHANGE IN THE DIRECTION REPRESENTED AND THE NUMBER OF GENES CHANGING IN THAT DIRECTION MUST BE >10
OVER-XP
UNDER-XP
100 90 80 70 60 50 40 30
% PROBE SETS p<0.05
FUNCTIONAL INTERPRETATION
PLASMA CELLS
PLATELETS
B-CELLS
MYELOID LINEAGE
RIBOSOMAL PROTEINS
CYTOTOXIC CELLS
NEUTROPHILS
ERYTHOCYTES
T-CELLS
INTERFERON
INFLAMMATION
UNDETERMINED
NO MODULE

FIG. 9

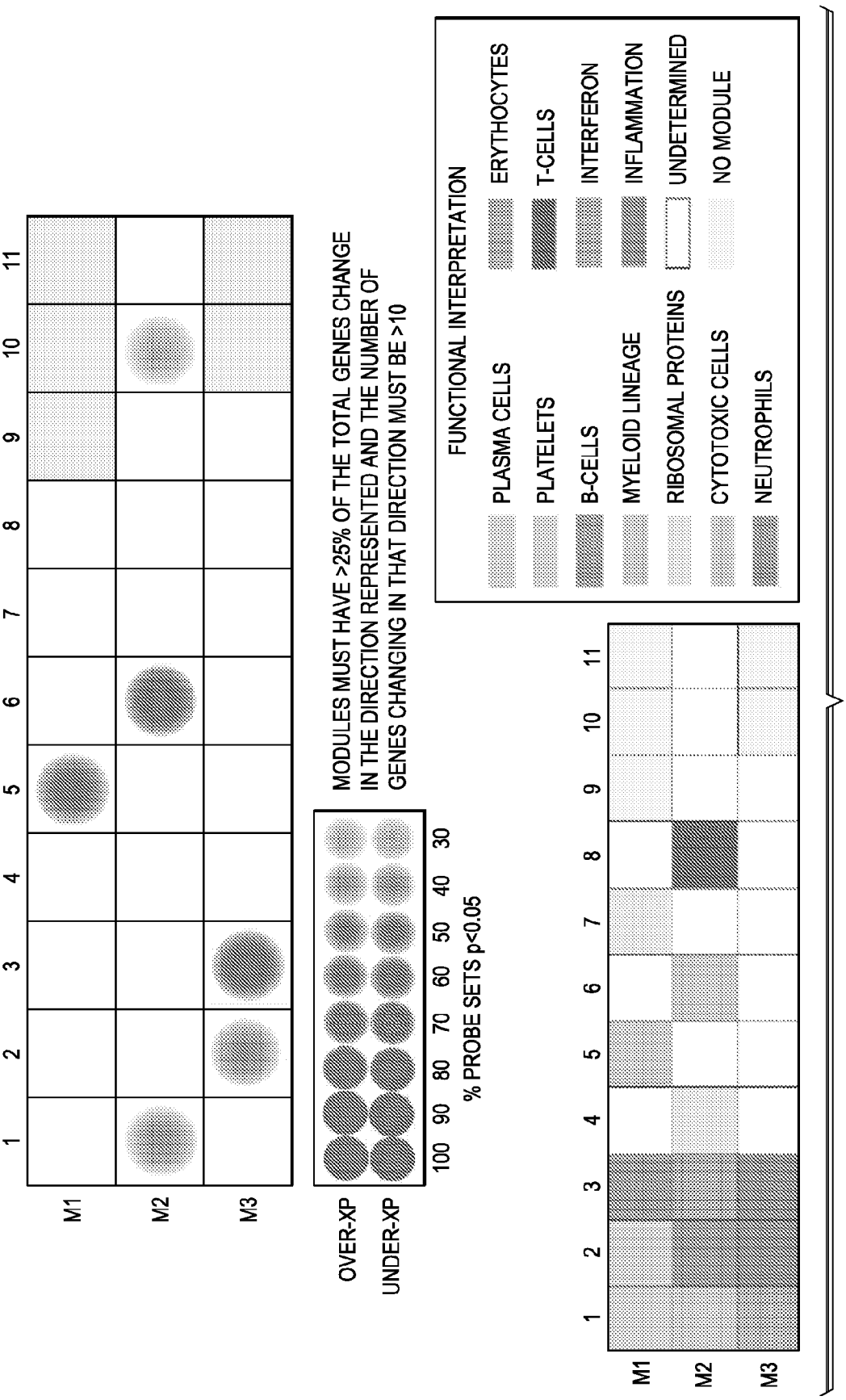

1 2 3 4 5 6 7 8 9 10 11
M1
M2
M3
OVER-XP
UNDER-XP
100 90 80 70 60 50 40 30
% PROBE SETS p<0.05
MODULES MUST HAVE >25% OF THE TOTAL GENES CHANGE IN THE DIRECTION REPRESENTED AND THE NUMBER OF GENES CHANGING IN THAT DIRECTION MUST BE >10
FUNCTIONAL INTERPRETATION
PLASMA CELLS
PLATELETS
B-CELLS
MYELOID LINEAGE
RIBOSOMAL PROTEINS
CYTOTOXIC CELLS
NEUTROPHILS
ERYTHOCYTES
T-CELLS
INTERFERON
INFLAMMATION
UNDETERMINED
NO MODULE

FIG. 10