

Supplementary figures and tables

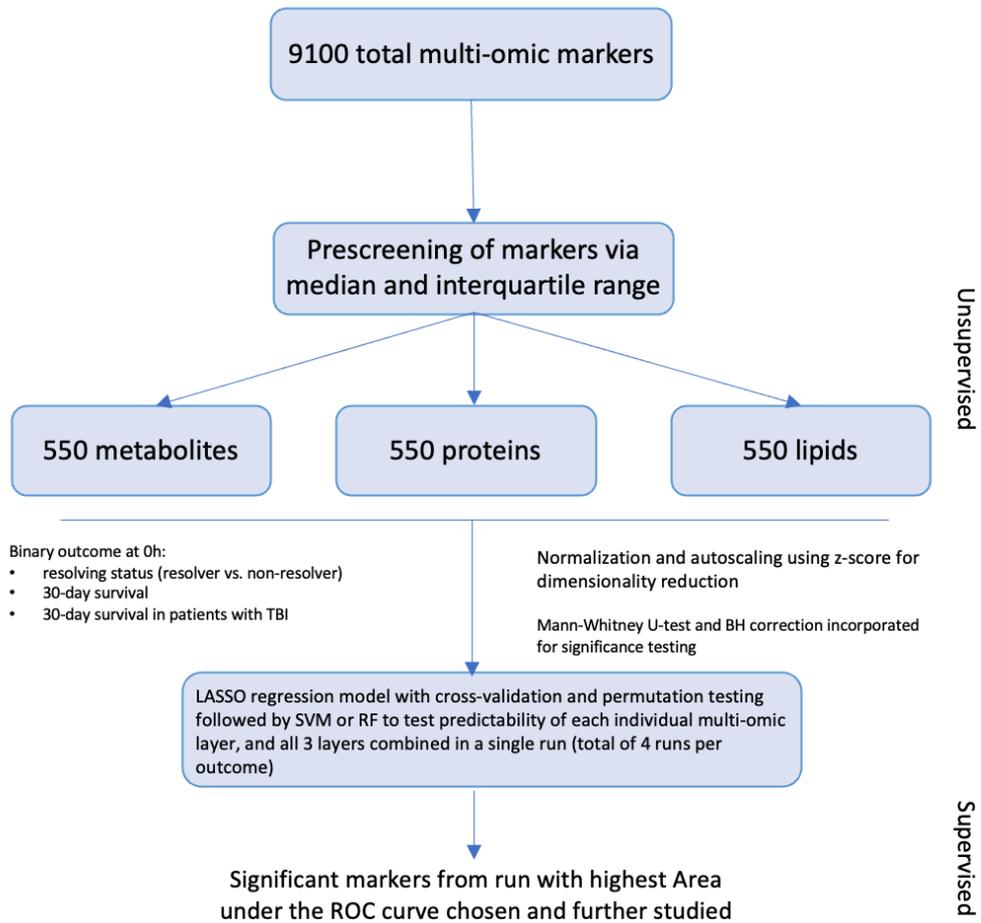


Figure S1 Flow chart of methods used for feature selection using LASSO.

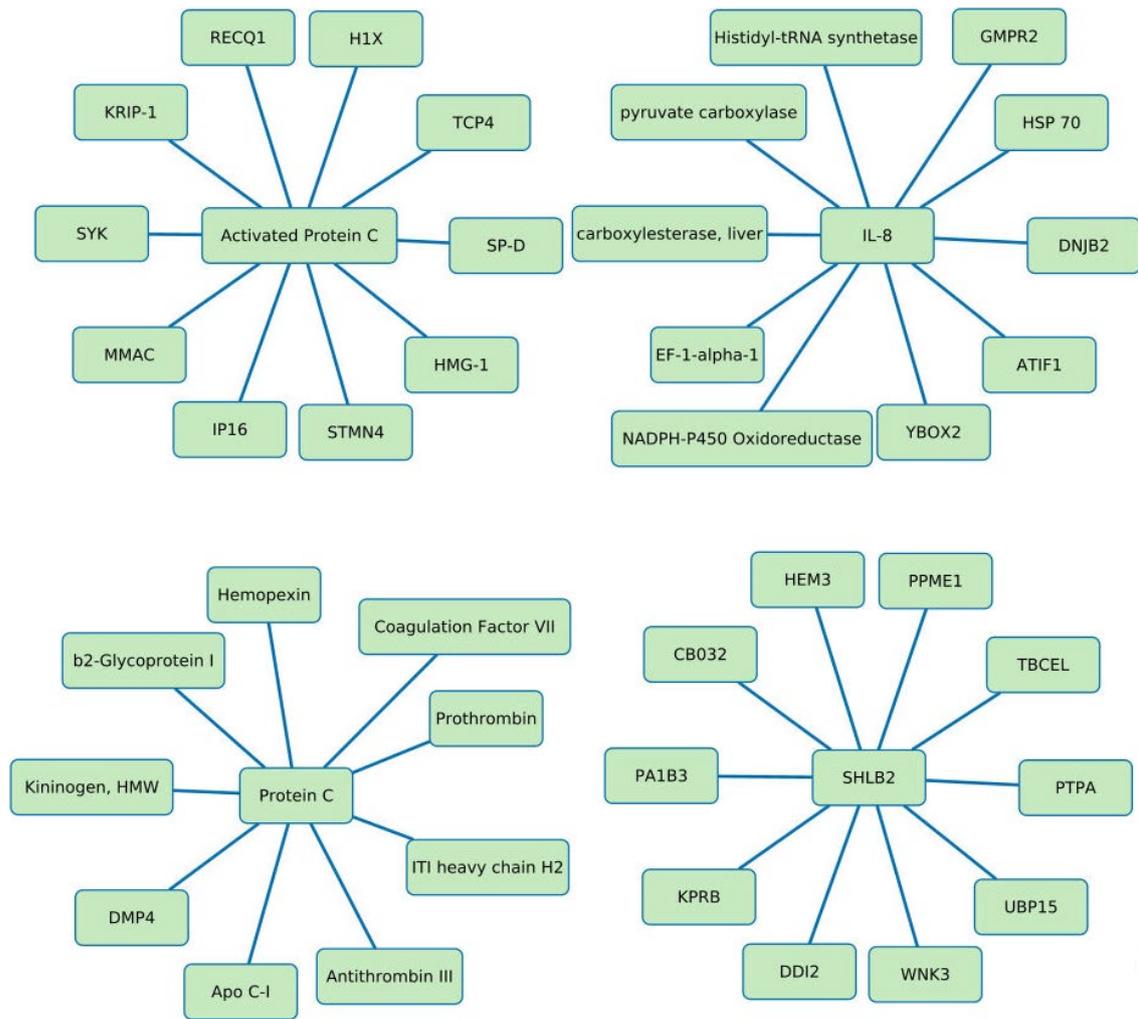


Figure S2. Correlation network analysis between LASSO-model selected features for predicting persistent critical illness in trauma patients (Spearman's $r > .70$)

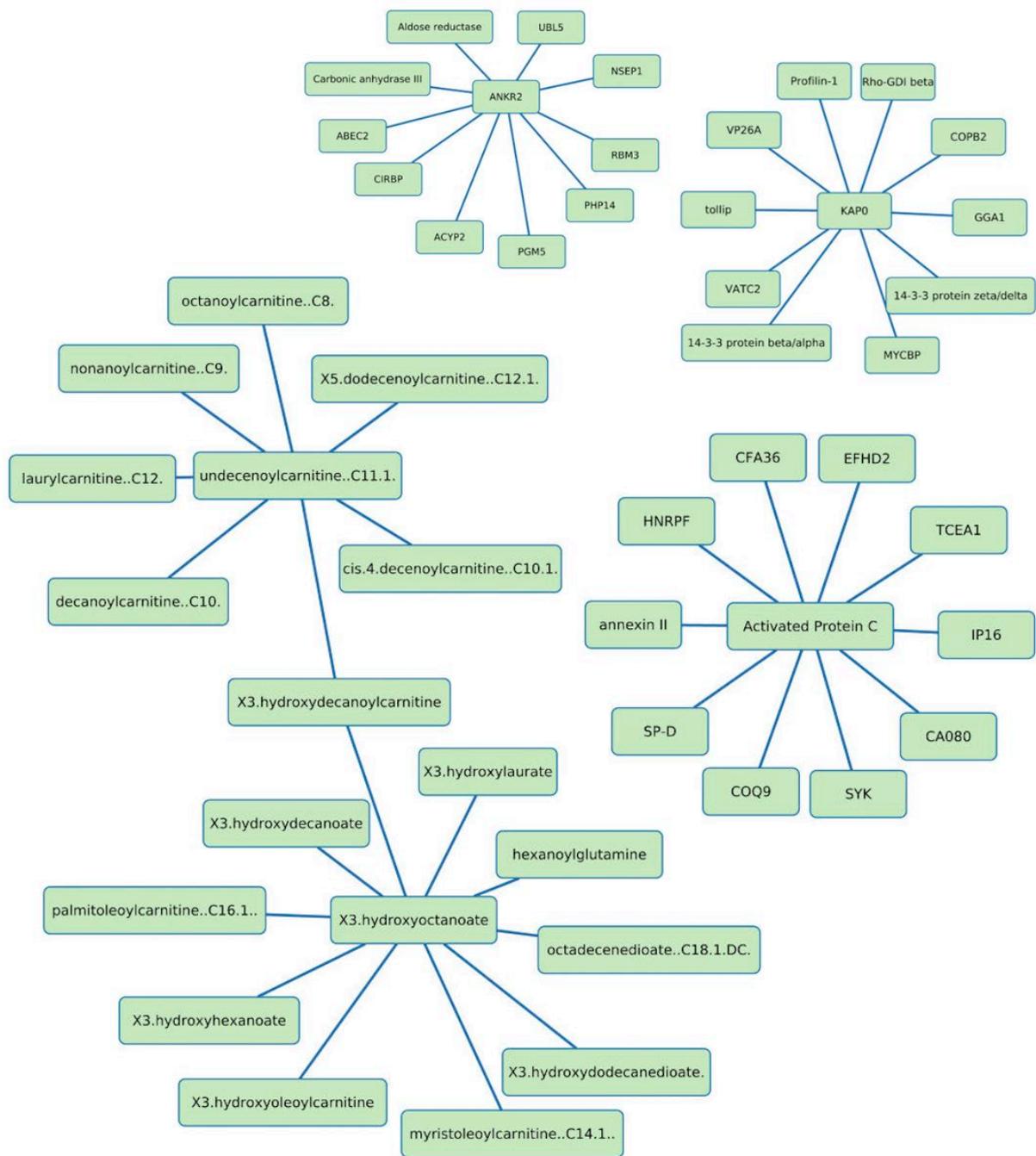
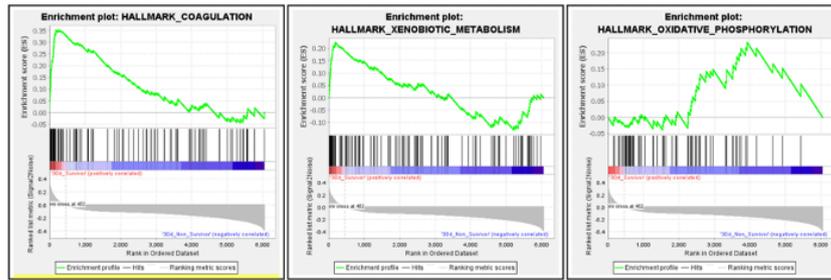


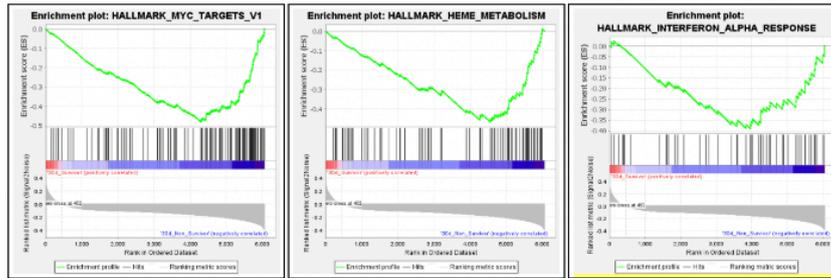
Figure S3. Correlation network analysis between LASSO-model selected features for predicting 30-day survival in trauma patients (Spearman's $r > .70$)

Phenotype enrichment (GSEA)

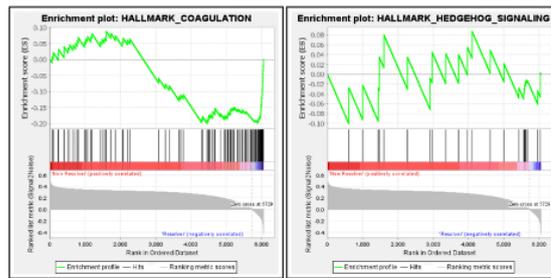
30-day survivors



30-day non-survivors



Resolvers



Non-resolvers



Figure S4. Top phenotype gene set enrichment analysis in each group (A. & B. 30-day survivors and non-survivors, C. & D. resolvers and non-resolvers). Y-axis is the enrichment score (ES) which indicates to what degree a gene set is enriched in a given group when compared to the other group. X-axis demonstrates “Rank in ordered dataset” which measures a gene’s correlation with a specific phenotype. A positive value demonstrates a correlation with the first phenotype (30-day survivors in group 1, resolvers in group 2), and a negative value demonstrates a correlation with the second phenotype (30-day non-survivors in group 1, non-resolvers in group 2).

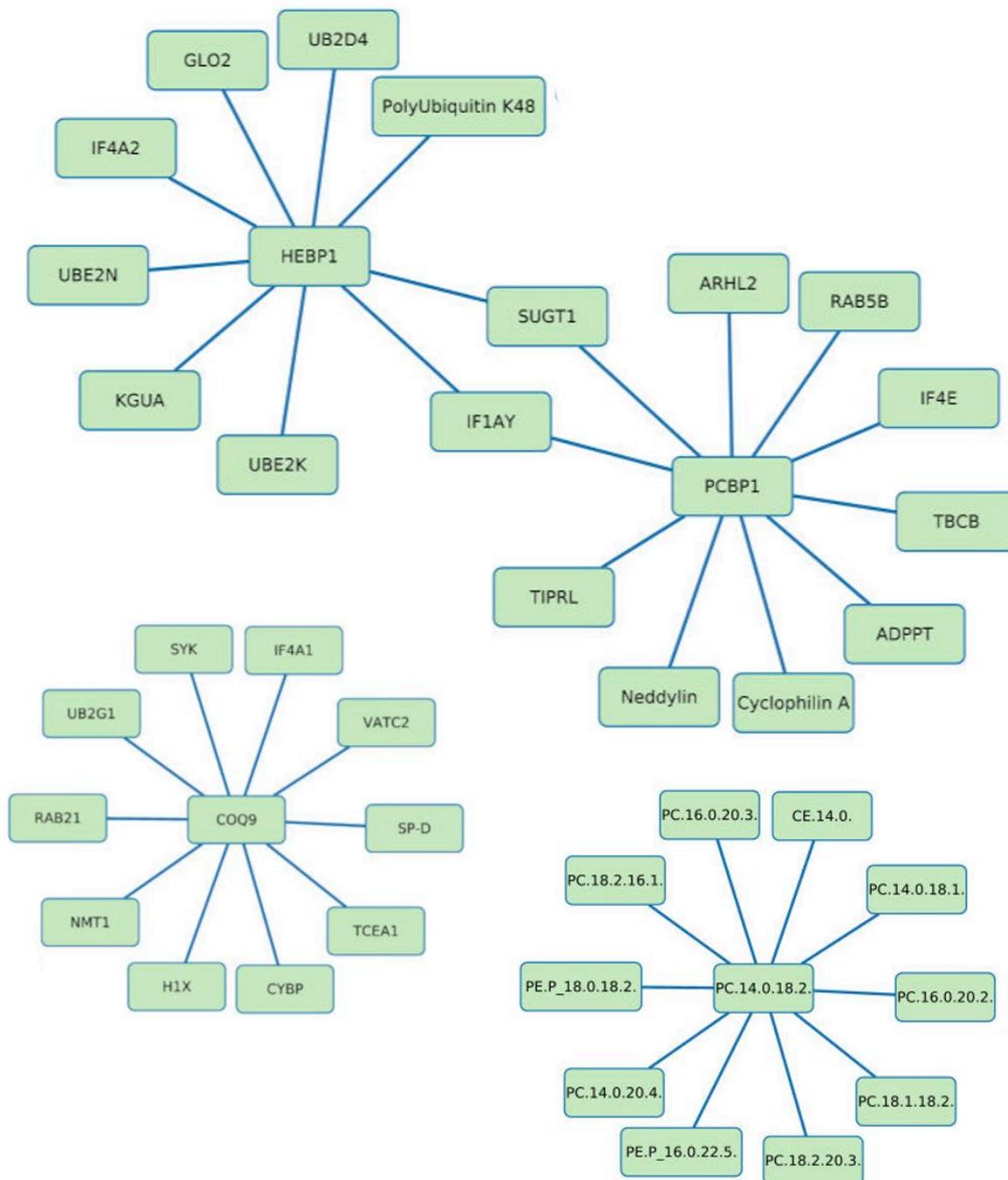


Figure S5. Correlation network analysis between LASSO-model selected features for predicting traumatic brain injury in trauma patients (Spearman's $r > .70$).

Table S1. AUC's of LASSO runs done for each outcome group (4 runs each, proteomic layer, metabolomic layer, lipidomic layer, and a combined layer from the previous 3).

	AUC
RESOLVING STATUS	
PROTEOMIC	0.74
LIPIDOMICS	0.62
METABOLOMICS	0.65
COMBINED	0.57
30-DAY SURVIVAL	
COMBINED	0.77
PROTEOMICS	0.63
LIPIDOMICS	0.63
METABOLOMICS	0.7
30-DAY SURVIVAL/TBI	
COMBINED	0.75
PROTEOMICS	0.66
LIPIDOMICS	0.55
METABOLOMICS	0.72

Table S2. Selected features for resolving status.

SELECTED FEATURES FOR RESOLVING STATUS	CLASS	PATHWAY	PVALUE	BH CORRECTED P-VALUE
Beta-microseminoprotein	Protein	Immunoglobulin Binding Family	0.0000711	0.000284
Interleukin-8	Protein	Chemokine	0.0000649	0.000284
Endophilin-B2	Protein	Endophilin B Family	0.00392807	0.010691
Activated Protein C	Protein	Coagulation	0.00534534	0.010691
Vitamin K-dependent protein C	Protein	Coagulation	0.01486754	0.014868

Table S3. List of protein names for correlation networks.

PROTEIN TARGET NAME	PROTEIN FULL NAME
ACTIVATED PROTEIN C	Activated Protein C
ADPPT	L-aminoadipate-semialdehyde dehydrogenase-phosphopantetheinyl transferase
ARHL2	Poly(ADP-ribose) glycohydrolase ARH3
CB032	CB1 cannabinoid receptor-interacting protein 1
CYCLOPHILIN A	Peptidyl-prolyl cis-trans isomerase A
DDI2	Protein DDI1 homolog 2
GLO2	Hydroxyacylglutathione hydrolase, mitochondrial
H1X	Histone H1x
HEBP1	Heme-binding protein 1
HEM3	Porphobilinogen deaminase
HMG-1	High mobility group protein B1
IF1AY	Eukaryotic translation initiation factor 1A, Y-chromosomal
IF4A2	Eukaryotic initiation factor 4A-II
IF4E	Eukaryotic translation initiation factor 4E
IP16	Gamma-interferon-inducible protein 16
KGUA	Guanylate kinase
KPRB	Phosphoribosyl pyrophosphate synthase-associated protein 2

KRIP-1	Transcription intermediary factor 1-beta
MMAC	Methylmalonic aciduria and homocystinuria type C protein
NEDDYLIN	Ubiquitin-like protein Nedd8
PA1B3	Platelet-activating factor acetylhydrolase IB subunit gamma
PCBP1	Poly(rC)-binding protein 1
POLYUBIQUITIN K48	PolyUbiquitin K48-linked
PPME1	Protein phosphatase methylesterase 1
PTPA	Serine/threonine-protein phosphatase 2A regulatory subunit B'
RAB5B	Ras-related protein Rab-5B
RECQ1	ATP-dependent DNA helicase Q1
SHLB2	Endophilin-B2
SP-D	Pulmonary surfactant-associated protein D
STMN4	Stathmin-4
SUGT1	Protein SGT1 homolog
SYK	Lysine--tRNA ligase
TBCB	Tubulin-folding cofactor B
TBCEL	Tubulin-specific chaperone cofactor E-like protein
TCP4	Activated RNA polymerase II transcriptional coactivator p15
TIPRL	TIP41-like protein
UB2D4	Ubiquitin-conjugating enzyme E2 D4
UBE2K	Ubiquitin-conjugating enzyme E2 K
UBE2N	Ubiquitin-conjugating enzyme E2 N
UBP15	Ubiquitin carboxyl-terminal hydrolase 15
WNK3	Serine/threonine-protein kinase WNK3

Table S4. Selected features for 30-day survival.

SELECTED FEATURES FOR 30-DAY SURVIVAL	CLASS	PATHWAY	P-VALUE	BH CORRECTED P-VALUE
5(6)DIHYDROTHYMINE	Metabolite	Pyrimidine Metabolism	0.00000502	0.000131
PREGNENEDIOL SULFATE (C21H34O5S)	Lipid	Pregnenolone Steroids	0.000202	0.005055
PC.14.0.20.3	Lipid	Phosphatidylcholine	0.0003	0.007196
SEDOHEPTULOSE	Metabolite	Monosaccharide	0.000332	0.00764
ACTIVATED PROTEIN C	Protein	Coagulation	0.000858	0.01761
(3)AMINO(2)PIPERIDONE	Metabolite	Arginine and Proline Metabolism	0.000847	0.01761
XANTHINE	Metabolite	Purine Metabolism	0.000881	0.01761
URIDINE	Metabolite	Pyrimidine Metabolism	0.001153	0.021916
PC.14.0.18.2	Lipid	Phosphatidylcholine	0.001277	0.022987
(17)ALPHA-HYDROXYPREGNENOLONE(3)SULFATE	Lipid	Pregnenolone Steroids	0.003274	0.055664
N-ACETYL-ASPARYL-GLUTAMATE (NAAG)	Metabolite	Peptide Neurotransmitter	0.003896	0.062342
ANKYRIN REPEAT DOMAIN-CONTAINING PROTEIN 2	Protein	MARP Family	0.006512	0.09768
CAMP-DEPENDENT PROTEIN KINASE TYPE I-ALPHA REGULATORY SUBUNIT	Protein	Kinase	0.012553	0.146847
(3)HYDROXYOCTANOATE	Lipid	Fatty Acid, Monohydroxy	0.014685	0.146847
LYXONATE	Metabolite	Pentose Metabolism	0.010516	0.146847
MALONYLCARNITINE	Lipid	Fatty Acid Synthesis	0.013936	0.146847
PREGNANEDIOL(3)GLUCURONIDE	Lipid	Progesterin Steroids	0.012484	0.146847

(5)ALPHA-PREGNAN(3)BETA(20)ALPHA-DIOL-MONOSULFATE(2)	Lipid	Progestin Steroids	0.027047	0.216374
DELTA-TOCOPHEROL	Metabolite	Tocopherol Metabolism	0.026233	0.216374
ALLO-THREONINE	Metabolite	Glycine, Serine and Threonine Metabolism	0.088166	0.617164
COAGULATION FACTOR VIII	Protein	Coagulation	0.254972	0.763278
RENIN	Protein	Renin Angiotensin System	0.339788	0.763278
ADVANCED GLYCOSYLATION END PRODUCT-SPECIFIC RECEPTOR, SOLUBLE	Protein	Cell Surface Molecule	0.411155	0.763278
BILIRUBIN DEGRADATION PRODUCT (C16H18N2O5.2)	Metabolite	Bilirubin Degradation	0.270903	0.763278
UNDECENOYL CARNITINE(C11.1)	Metabolite	Leucine, Isoleucine and Valine Metabolism	0.132665	0.763278
TAG55.5 FA18(2)	Lipid	Triacylglycerol	0.763278	0.763278

Table S5. Selected features for 30-day survival in TBI.

SELECTED FEATURES FOR PRESENCE OF TBI	CLASS	PATHWAY	P-VALUE	BH CORRECTED P-VALUE
N-acetyl-aspartyl-glutamate (NAAG)	Metabolite	Peptide Neurotransmitter	0.0000178	0.000178
Aldose reductase	Protein	NADPH-dependant Oxireductase	0.000021	0.000189
Oxindolylalanine	Metabolite	Tryptophan Metabolism	0.0000317	0.000254
Creatine kinase M-type:Creatine kinase B-type heterodimer	Protein	Kinase	0.000144	0.00101
Fatty acid-binding protein, heart	Protein	Lipid-binding protein	0.000919	0.005513
N-palmitoylglycine	Lipid	Fatty Acid Metabolism (Acyl Glycine)	0.002224	0.011122
5-alpha-androstan(3)beta 17beta-diol-disulfate	Lipid	Androgenic Steroid	0.003814	0.013146
PI.18.0.18.2	Lipid	Phosphatidylinositol	0.004382	0.013146
Oxalate ethanedioate	Metabolite	Ascorbate and Aldarate Metabolism	0.047038	0.076462
Trigonelline(N)methylnicotinate	Metabolite	Nicotinate and Nicotinamide Metabolism	0.076462	0.076462

Table S6. Ranked Gene List between 30-day survivors vs. non-survivors (GSEA). A positive value demonstrates a correlation with the first phenotype (30-day survivors in group 1, responders in group 2), and a negative value demonstrates a correlation with the second phenotype (30-day non-survivors in group 1, non-responders in group 2).

NAME	TITLE	SCORE
SERPINF2	serpin family F member 2 [Source:HGNC Symbol;Acc:HGNC:9075]	0.49038604
PROC	protein C, inactivator of coagulation factors Va and VIIIa [Source:HGNC Symbol;Acc:HGNC:9451]	0.47138682
CPB2	carboxypeptidase B2 [Source:HGNC Symbol;Acc:HGNC:2300]	0.3814521
ADAMTS13	ADAM metalloproteinase with thrombospondin type 1 motif 13 [Source:HGNC Symbol;Acc:HGNC:1366]	0.35133052
IGFALS	insulin like growth factor binding protein acid labile subunit [Source:HGNC Symbol;Acc:HGNC:5468]	0.34175417
PZP	PZP alpha-2-macroglobulin like [Source:HGNC Symbol;Acc:HGNC:9750]	0.33677304
PLA2G12B	phospholipase A2 group XIIB [Source:HGNC Symbol;Acc:HGNC:18555]	0.33042234
BTD	biotinidase [Source:HGNC Symbol;Acc:HGNC:1122]	0.3218178
F9	coagulation factor IX [Source:HGNC Symbol;Acc:HGNC:3551]	0.3175016
SERPINA4	serpin family A member 4 [Source:HGNC Symbol;Acc:HGNC:8948]	0.31455392
F11	coagulation factor XI [Source:HGNC Symbol;Acc:HGNC:3529]	0.31378555
SERPIND1	serpin family D member 1 [Source:HGNC Symbol;Acc:HGNC:4838]	0.28808224
NCMAP	non-compact myelin associated protein [Source:HGNC Symbol;Acc:HGNC:29332]	0.28789428
IZUMO4	IZUMO family member 4 [Source:HGNC Symbol;Acc:HGNC:26950]	0.28626233
F13A1	coagulation factor XIII A chain [Source:HGNC Symbol;Acc:HGNC:3531]	0.28528827
IGFBP3	insulin like growth factor binding protein 3 [Source:HGNC Symbol;Acc:HGNC:5472]	0.28493634
MAP2K4	mitogen-activated protein kinase kinase 4 [Source:HGNC Symbol;Acc:HGNC:6844]	0.28217614
AZGP1	alpha-2-glycoprotein 1, zinc-binding [Source:HGNC Symbol;Acc:HGNC:910]	0.28040224
RBP4	retinol binding protein 4 [Source:HGNC Symbol;Acc:HGNC:9922]	0.27747256
IL1RAP	interleukin 1 receptor accessory protein [Source:HGNC Symbol;Acc:HGNC:5995]	0.27242404
F13B	coagulation factor XIII B chain [Source:HGNC Symbol;Acc:HGNC:3534]	0.27198485
CAMP	cathelicidin antimicrobial peptide [Source:HGNC Symbol;Acc:HGNC:1472]	0.2719579
SERPINA5	serpin family A member 5 [Source:HGNC Symbol;Acc:HGNC:8723]	0.2696333
ARF1	ADP ribosylation factor 1 [Source:HGNC Symbol;Acc:HGNC:652]	-0.38243207
INPP5D	inositol polyphosphate-5-phosphatase D [Source:HGNC Symbol;Acc:HGNC:6079]	-0.38251507
RFK	riboflavin kinase [Source:HGNC Symbol;Acc:HGNC:30324]	-0.38626677
MZB1	marginal zone B and B1 cell specific protein [Source:HGNC Symbol;Acc:HGNC:30125]	-0.38899603
TTC9	tetratricopeptide repeat domain 9 [Source:HGNC Symbol;Acc:HGNC:20267]	-0.3910564
EIF4A1	eukaryotic translation initiation factor 4A1 [Source:HGNC Symbol;Acc:HGNC:3282]	-0.39504117
APLP2	amyloid beta precursor like protein 2 [Source:HGNC Symbol;Acc:HGNC:598]	-0.39616615
GZMK	granzyme K [Source:HGNC Symbol;Acc:HGNC:4711]	-0.39852026
CPLX1	complexin 1 [Source:HGNC Symbol;Acc:HGNC:2309]	-0.40014836
CHMP1A	charged multivesicular body protein 1A [Source:HGNC Symbol;Acc:HGNC:8740]	-0.4004056
GPC3	glypican 3 [Source:HGNC Symbol;Acc:HGNC:4451]	-0.40311554
ISG15	ISG15 ubiquitin like modifier [Source:HGNC Symbol;Acc:HGNC:4053]	-0.4225093
PCNA	proliferating cell nuclear antigen [Source:HGNC Symbol;Acc:HGNC:8729]	-0.4248515
SMOC1	SPARC related modular calcium binding 1 [Source:HGNC Symbol;Acc:HGNC:20318]	-0.4275326
SLIT2	slit guidance ligand 2 [Source:HGNC Symbol;Acc:HGNC:11086]	-0.4275852
A2M	alpha-2-macroglobulin [Source:HGNC Symbol;Acc:HGNC:7]	-0.43045333
CPLX2	complexin 2 [Source:HGNC Symbol;Acc:HGNC:2310]	-0.45341763
SMOC2	SPARC related modular calcium binding 2 [Source:HGNC Symbol;Acc:HGNC:20323]	-0.4623694

Table S7. Ranked gene list between resolvers and non-resolvers (GSEA).

NAME	TITLE	SCORE
CXCL8	C-X-C motif chemokine ligand 8 [Source:HGNC Symbol;Acc:HGNC:6025]	0.6299099
MSMB	microseminoprotein beta [Source:HGNC Symbol;Acc:HGNC:7372]	0.60551965
ALDH3A1	aldehyde dehydrogenase 3 family member A1 [Source:HGNC Symbol;Acc:HGNC:405]	0.59096164
PPT1	palmitoyl-protein thioesterase 1 [Source:HGNC Symbol;Acc:HGNC:9325]	0.5423089
GALNT14	polypeptide N-acetylgalactosaminyltransferase 14 [Source:HGNC Symbol;Acc:HGNC:22946]	0.5222981
S100A6	S100 calcium binding protein A6 [Source:HGNC Symbol;Acc:HGNC:10496]	0.49666965
TMOD1	tropomodulin 1 [Source:HGNC Symbol;Acc:HGNC:11871]	0.48645607
CD274	CD274 molecule [Source:HGNC Symbol;Acc:HGNC:17635]	0.48033306
EPS8L1	EPS8 like 1 [Source:HGNC Symbol;Acc:HGNC:21295]	0.48004276
GDI1	GDP dissociation inhibitor 1 [Source:HGNC Symbol;Acc:HGNC:4226]	0.4796571
RILP	Rab interacting lysosomal protein [Source:HGNC Symbol;Acc:HGNC:30266]	0.47823128
VSIG2	V-set and immunoglobulin domain containing 2 [Source:HGNC Symbol;Acc:HGNC:17149]	0.47804528
CSF3	colony stimulating factor 3 [Source:HGNC Symbol;Acc:HGNC:2438]	0.47603843
DHRS11	dehydrogenase/reductase 11 [Source:HGNC Symbol;Acc:HGNC:28639]	0.4708104
PA2G4	proliferation-associated 2G4 [Source:HGNC Symbol;Acc:HGNC:8550]	0.46906778
CXCL13	C-X-C motif chemokine ligand 13 [Source:HGNC Symbol;Acc:HGNC:10639]	0.46861416
ACP6	acid phosphatase 6, lysophosphatidic [Source:HGNC Symbol;Acc:HGNC:29609]	0.46555108
FCGR2B	Fc fragment of IgG receptor IIb [Source:HGNC Symbol;Acc:HGNC:3618]	0.46078134
DNAJB4	DnaJ heat shock protein family (Hsp40) member B4 [Source:HGNC Symbol;Acc:HGNC:14886]	0.4603548
EEF2KMT	eukaryotic elongation factor 2 lysine methyltransferase [Source:HGNC Symbol;Acc:HGNC:32221]	0.4583485
JUP	junction plakoglobin [Source:HGNC Symbol;Acc:HGNC:6207]	0.45665398
AMPH	amphiphysin [Source:HGNC Symbol;Acc:HGNC:471]	0.454679
KRT17	keratin 17 [Source:HGNC Symbol;Acc:HGNC:6427]	0.44462767
EIF4EBP3	eukaryotic translation initiation factor 4E binding protein 3 [Source:HGNC Symbol;Acc:HGNC:3290]	0.44448102
F9	coagulation factor IX [Source:HGNC Symbol;Acc:HGNC:3551]	-0.23622549
CFHR5	complement factor H related 5 [Source:HGNC Symbol;Acc:HGNC:24668]	-0.23656416
TMEM70	transmembrane protein 70 [Source:HGNC Symbol;Acc:HGNC:26050]	-0.23668264
PLG	plasminogen [Source:HGNC Symbol;Acc:HGNC:9071]	-0.2384552
IL20RB	interleukin 20 receptor subunit beta [Source:HGNC Symbol;Acc:HGNC:6004]	-0.24539113
FGL1	fibrinogen like 1 [Source:HGNC Symbol;Acc:HGNC:3695]	-0.25183696
BTD	biotinidase [Source:HGNC Symbol;Acc:HGNC:1122]	-0.25381142
SERPINC1	serpin family C member 1 [Source:HGNC Symbol;Acc:HGNC:775]	-0.25408944
ITIH2	inter-alpha-trypsin inhibitor heavy chain 2 [Source:HGNC Symbol;Acc:HGNC:6167]	-0.2556512
F7	coagulation factor VII [Source:HGNC Symbol;Acc:HGNC:3544]	-0.26221678
AGT	angiotensinogen [Source:HGNC Symbol;Acc:HGNC:333]	-0.27318233
GC	GC vitamin D binding protein [Source:HGNC Symbol;Acc:HGNC:4187]	-0.2844821
IZUMO4	IZUMO family member 4 [Source:HGNC Symbol;Acc:HGNC:26950]	-0.32439372
CPB2	carboxypeptidase B2 [Source:HGNC Symbol;Acc:HGNC:2300]	-0.33378258
HP	haptoglobin [Source:HGNC Symbol;Acc:HGNC:5141]	-0.33667478
SERPINF2	serpin family F member 2 [Source:HGNC Symbol;Acc:HGNC:9075]	-0.34237707
IL1RAP	interleukin 1 receptor accessory protein [Source:HGNC Symbol;Acc:HGNC:5995]	-0.34765673
PZP	PZP alpha-2-macroglobulin like [Source:HGNC Symbol;Acc:HGNC:9750]	-0.399206
PROC	protein C, inactivator of coagulation factors Va and VIIIa [Source:HGNC Symbol;Acc:HGNC:9451]	-0.4422778

Table S8. Ranked Gene List between TBI vs. NBI patients (GSEA).

NAME	TITLE	SCORE
ALDH1A2	aldehyde dehydrogenase 1 family member A2 [Source:HGNC Symbol;Acc:HGNC:15472]	0.57157636
CPLX2	complexin 2 [Source:HGNC Symbol;Acc:HGNC:2310]	0.48933095
CRABP2	cellular retinoic acid binding protein 2 [Source:HGNC Symbol;Acc:HGNC:2339]	0.46159774
HPGDS	hematopoietic prostaglandin D synthase [Source:HGNC Symbol;Acc:HGNC:17890]	0.44475207
ELAVL2	ELAV like RNA binding protein 2 [Source:HGNC Symbol;Acc:HGNC:3313]	0.43242094
AKR1B1	aldo-keto reductase family 1 member B [Source:HGNC Symbol;Acc:HGNC:381]	0.41787526
GALNT14	polypeptide N-acetylgalactosaminyltransferase 14 [Source:HGNC Symbol;Acc:HGNC:22946]	0.41758662
MAG	myelin associated glycoprotein [Source:HGNC Symbol;Acc:HGNC:6783]	0.40778923
NOVA1	NOVA alternative splicing regulator 1 [Source:HGNC Symbol;Acc:HGNC:7886]	0.40716144
NPTXR	neuronal pentraxin receptor [Source:HGNC Symbol;Acc:HGNC:7954]	0.40158445
ASB9	ankyrin repeat and SOCS box containing 9 [Source:HGNC Symbol;Acc:HGNC:17184]	0.3999002
KLK7	kallikrein related peptidase 7 [Source:HGNC Symbol;Acc:HGNC:6368]	0.39699575
MSMB	microseminoprotein beta [Source:HGNC Symbol;Acc:HGNC:7372]	0.39032647
USP14	ubiquitin specific peptidase 14 [Source:HGNC Symbol;Acc:HGNC:12612]	0.389617
CRHBP	corticotropin releasing hormone binding protein [Source:HGNC Symbol;Acc:HGNC:2356]	0.38663018
AGER	advanced glycosylation end-product specific receptor [Source:HGNC Symbol;Acc:HGNC:320]	0.38479918
CBR3	carbonyl reductase 3 [Source:HGNC Symbol;Acc:HGNC:1549]	0.38003492
CNRIP1	cannabinoid receptor interacting protein 1 [Source:HGNC Symbol;Acc:HGNC:24546]	0.374988
NCAN	neurocan [Source:HGNC Symbol;Acc:HGNC:2465]	0.37451422
EHD2	EH domain containing 2 [Source:HGNC Symbol;Acc:HGNC:3243]	0.37395182
ATP1B1	ATPase Na ⁺ /K ⁺ transporting subunit beta 1 [Source:HGNC Symbol;Acc:HGNC:804]	0.3709674
PLCD1	phospholipase C delta 1 [Source:HGNC Symbol;Acc:HGNC:9060]	0.3699091
YWHAG	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein gamma [Source:HGNC Symbol;Acc:HGNC:12852]	0.36614332
HMBS	hydroxymethylbilane synthase [Source:HGNC Symbol;Acc:HGNC:4982]	0.3659617
PHPT1	phosphohistidine phosphatase 1 [Source:HGNC Symbol;Acc:HGNC:30033]	0.36336586
ITGA2B	integrin subunit alpha 2b [Source:HGNC Symbol;Acc:HGNC:6138]	-0.17555647
GRIK2	glutamate ionotropic receptor kainate type subunit 2 [Source:HGNC Symbol;Acc:HGNC:4580]	-0.18448848
ACTN1	actinin alpha 1 [Source:HGNC Symbol;Acc:HGNC:163]	-0.19070216
COQ6	coenzyme Q6, monooxygenase [Source:HGNC Symbol;Acc:HGNC:20233]	-0.20896854
MMP19	matrix metalloproteinase 19 [Source:HGNC Symbol;Acc:HGNC:7165]	-0.21055807
TDGF1	teratocarcinoma-derived growth factor 1 [Source:HGNC Symbol;Acc:HGNC:11701]	-0.21163894
CHGA	chromogranin A [Source:HGNC Symbol;Acc:HGNC:1929]	-0.21710454
ATP1B4	ATPase Na ⁺ /K ⁺ transporting family member beta 4 [Source:HGNC Symbol;Acc:HGNC:808]	-0.23038776
FGL1	fibrinogen like 1 [Source:HGNC Symbol;Acc:HGNC:3695]	-0.27049166