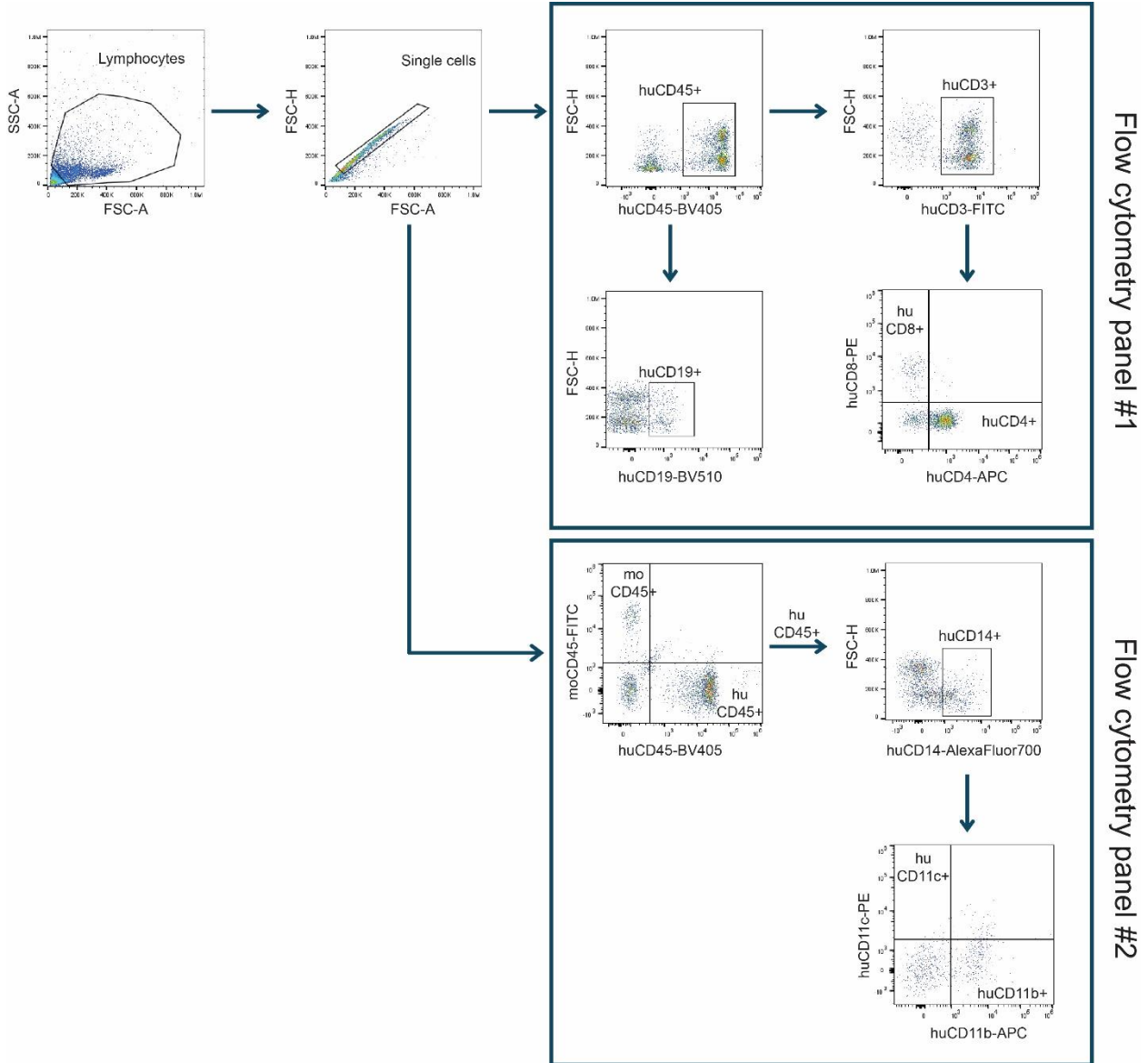
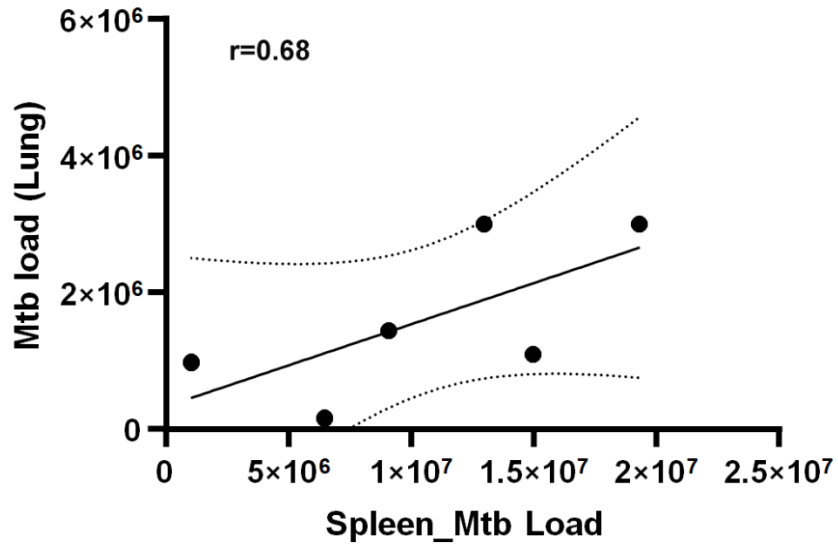


Supplementary Materials

Supplementary Figure 1: Gating strategy.



Supplementary Figure 2: Scatter plots showing Pearson correlation between Mtb load in mouse lungs and spleens (CFU/spleen).



Supplementary Table 1: VIP scores computed for all the metabolites in the dataset based on OPLS-DA.

Metabolite	VIP score
FA (16:0)	1.437111
N6 delta 2 isopentenyl adenine	1.434205
S-Adenosylmethionine	1.418893
FA (12:0)	1.415167
FA (18:0)	1.396659
Platelet-activating factor	1.386854
Lyso-PC (18:0)	1.362849
FA (14:0)	1.350673
FA (20:0)	1.345078
Deoxyuridine	1.342263
Carnitine	1.33464
Ascorbate	1.308655
3-Hydroxybutyrate	1.295623
Tyrosine	1.260681
Indole-3-acrylate	1.248672
Lyso-PC (16:0)	1.234492
Indole-3-pyruvate	1.218925
3-Hydroxycarnitine (5:0)	1.218571
Deoxycarnitine	1.21358
PE (38:3)	1.208569
Creatine	1.206018
Acetylcholine	1.205549
2-Hydroxyglutarate.Citramalate	1.201937
N-alpha-Acetyllysine	1.201507
Gluconate	1.197691
Phenylalanine	1.194949
4 Oxo-NAM	1.187957
Ribulose.Ribose.Xylulose_5.phosphate	1.181456
6 Oxo-NAM	1.179736
FA (16:1)	1.179513
Pipecolate	1.178893
Dimethylglycine	1.175609
Pyridoxal	1.174357
Hexosamines	1.170796
Glucose	1.170249
PC (40:5)	1.166408

Tryptophan	1.161525
Glutarate.Monoethylmalonate	1.15544
Lyso-PC (17:0)	1.153914
Diethanolamine	1.153088
Alanine.beta.Alanine	1.151022
Adipate.Methylglutarate.Monomethylglutarate	1.147097
Suberate	1.133155
Isoleucine/Leucine	1.131499
.Fructose_6.phosphate.Galactose_1.phosphate	1.127141
Argininosuccinate	1.125074
Oxohexanoic acid	1.124952
Choline	1.121099
FA_8.0 Octanoic acid	1.109269
3-Hydroxymethylglutarate	1.10777
FA (20:2)	1.100887
Glycerol_cyclic_phosphate	1.099676
Glycerophosphocholine	1.096131
Carnitinamide	1.093773
Asparagine	1.092705
Azelaate	1.092398
Citrate.Isocitrate	1.09206
3-(2-Hydroxyphenyl)propanoate	1.088243
Phosphoenolpyruvate	1.077073
Citrulline	1.076909
Aspartate	1.071999
Acetylacrylate	1.070812
Allothreonine.Homoserine.Threonine	1.069962
PC (40:6)	1.066772
PC (34:1)	1.05803
Lyso-PC (18:1)	1.055564
Hydroxy-FA (7:0)	1.054677
Lyso-PE (16:0)	1.046704
SM (d18:1/16:0)	1.044607
N-Acetylorithine	1.035736
PC (34:2)	1.033627
PE (38:4)	1.031127
Pentoses	1.028832
3-Methoxy-4-hydroxymandelate	1.024757
4-Imidazoleacetate	1.022081
N,N-Dimethylarginine	1.020195
Glucose_6.phosphate.Mannose_6.phosphate	1.017318

Ornithine	1.017197
PC (32:0)	1.013559
Pyruvate	1.002992
PC (38:4)	0.999385
Homoarginine	0.999141
Hexitols	0.99771
Methionine	0.995206
Proline	0.989876
5.Aminolevulinate.cis..trans.3.Hydroxyproline.cis.4.Hydroxyproline.trans.4.Hydroxyproline	0.981924
PC (36:5)	0.975882
Glutamine	0.974746
5,6 Dimethylbenzimidazole	0.968548
Lyso-PE (18:1)	0.967866
Carnitine (18:1)	0.967755
N,N-Dimethyllysine	0.966673
Carnitine (3:0)	0.965
Carnitine (16:1)	0.963095
PC (40:8)	0.957938
Galacturonate.Hexarates	0.955387
N,N,N-Trimethyllysine	0.953082
3,4-Dihydroxyphenylacetate	0.949528
Urate	0.945383
Carnosine	0.94116
PC (38:5)	0.940501
4alpha-Hydroxyformyl-4beta-methyl-5alpha-cholest-8-en-3beta-ol	0.938381
Stachyose	0.938214
PE (38:6)	0.937361
PC (36:2)	0.935478
trans-Aconitate	0.935095
FA (18:1)	0.931431
Aminocaprylate	0.924364
Tartrate	0.921061
N-Acetylaspartate	0.920317
Threonate	0.914988
PC (36:4)	0.913867
Lyso-PE (18:0)	0.911883
Serine	0.90743
2',4'-Dihydroxyacetophenone/Resorcinol monoacetate	0.906722
Sulfolactate	0.905885
Glutathione	0.905686
Cystine	0.901311

PC (32:1)	0.897269
Arginine	0.892206
Diphthamide	0.884566
Raffinose	0.882656
Myoinositol	0.877701
Malate	0.873186
Urocanate	0.868794
Lyso-PC (18:2)	0.867252
Methyl 4-aminobutyrate	0.865099
3-Hydroxycarnitine (4:0)	0.863005
Theanine	0.855869
Carnitine (16:0)	0.849307
Hydroxy-FA (10:0)	0.849
Quinate	0.840404
Sedoheptulose 7-phosphate	0.83466
Ureidopropionate	0.829667
SM (d18:1/18:0)	0.828499
Anserine	0.824395
Fumarate	0.812664
Uracil	0.80356
Oxadipate	0.79558
Carnitine (glutaryl)	0.788163
4-Guanidinobutanoate	0.784761
alpha-Ketoglutarate	0.769371
Methacholine	0.769051
Phosphorylcholine	0.766295
beta.Glycerophosphate.Glycerol_3.phosphate	0.76434
2..3.Phosphoglycerate	0.762515
Hypotaurine	0.762452
PE (36:2)	0.750665
S-Adenosylhomocysteine	0.746779
Quinolate	0.743582
Deoxyribose	0.741554
Carnitine (18:0)	0.737904
Lyso-PE (20:4)	0.71974
Guanidinosuccinate	0.718122
Taurine	0.708903
Fructose	0.706283
Lactate	0.703849
Carnitine (5:0)	0.695629
N-Acetylneuraminate	0.693727

Glutathione disulfide	0.682004
Cellobiose.Lactose.Maltose.Melibiose.Palatinose.Sucrose.Trehalose	0.674089
2-Hydroxy-4-(methylthio)butanoate	0.663318
Glutamate	0.656884
Glu-Gln	0.643373
Hydroxy-FA (8:0)	0.638001
N-Acetylglutamate	0.616066
2-Deoxyglucose	0.610727
Carnitine (4:0)	0.591497
PE (36:1)	0.582848
Stachydrine	0.556746
PC (32:2)	0.547161
Phosphoethanolamine	0.541491
Dihydroxyacetone phosphate	0.455891
Succinate	0.436414
N-Acetyls erine	0.274851