

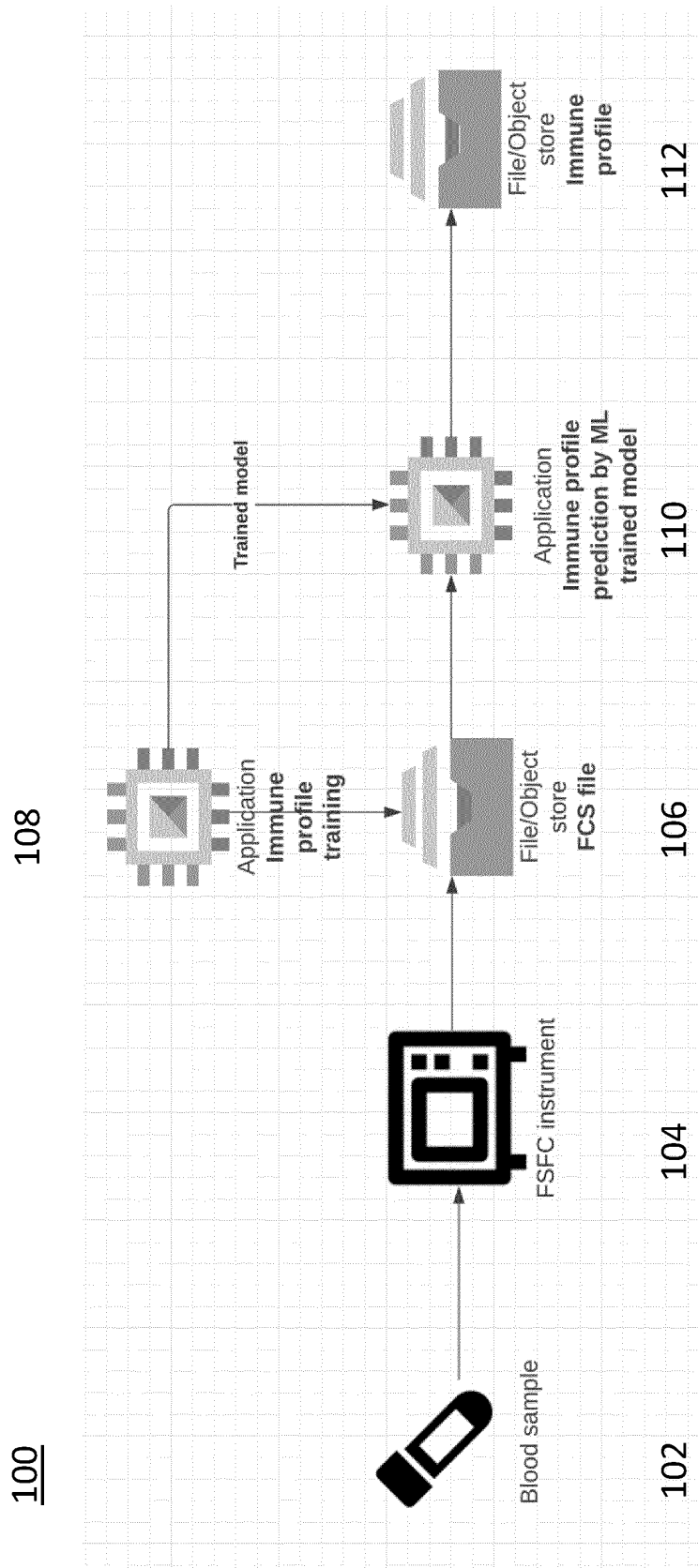


FIG. 1

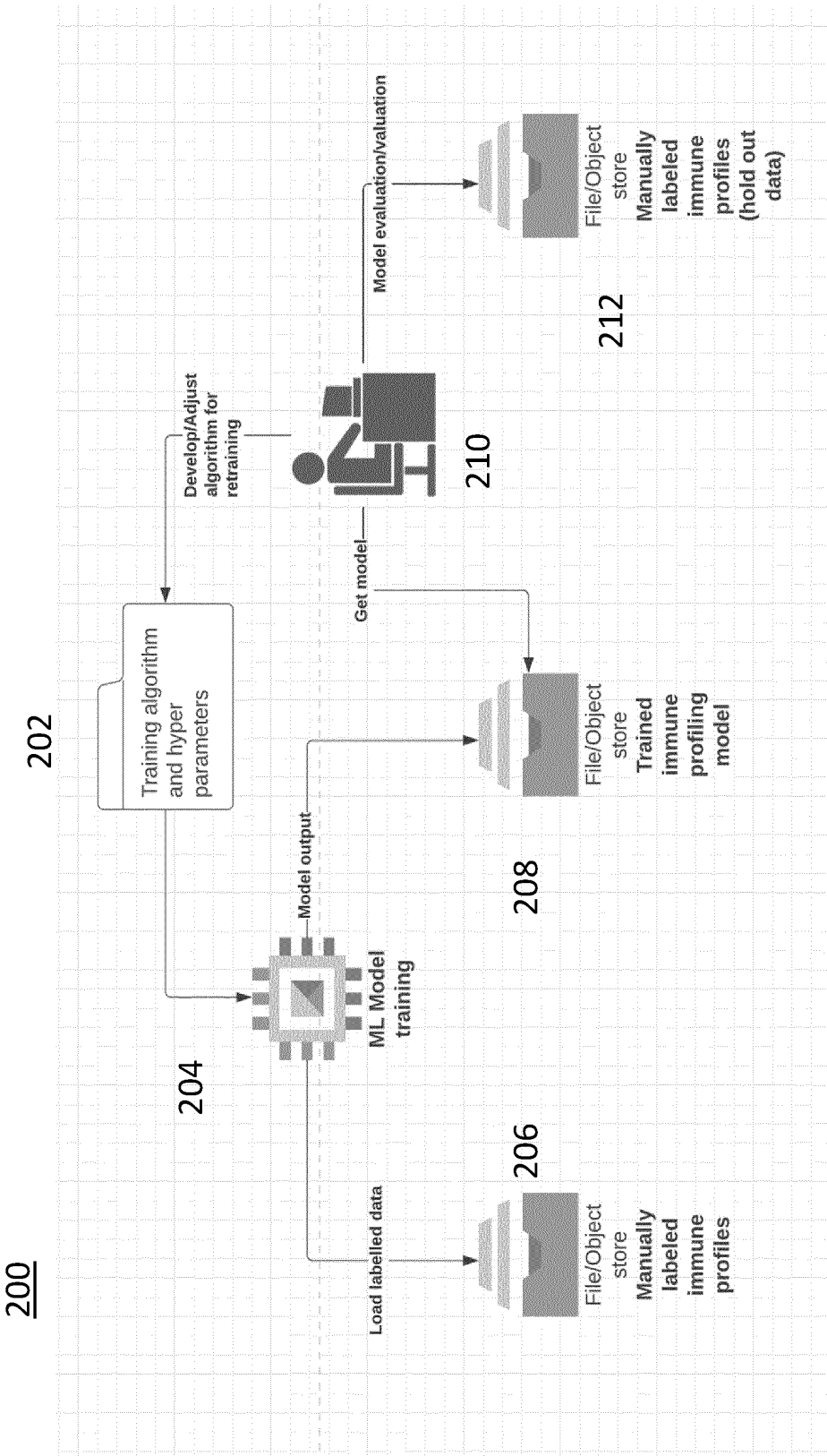


FIG. 2

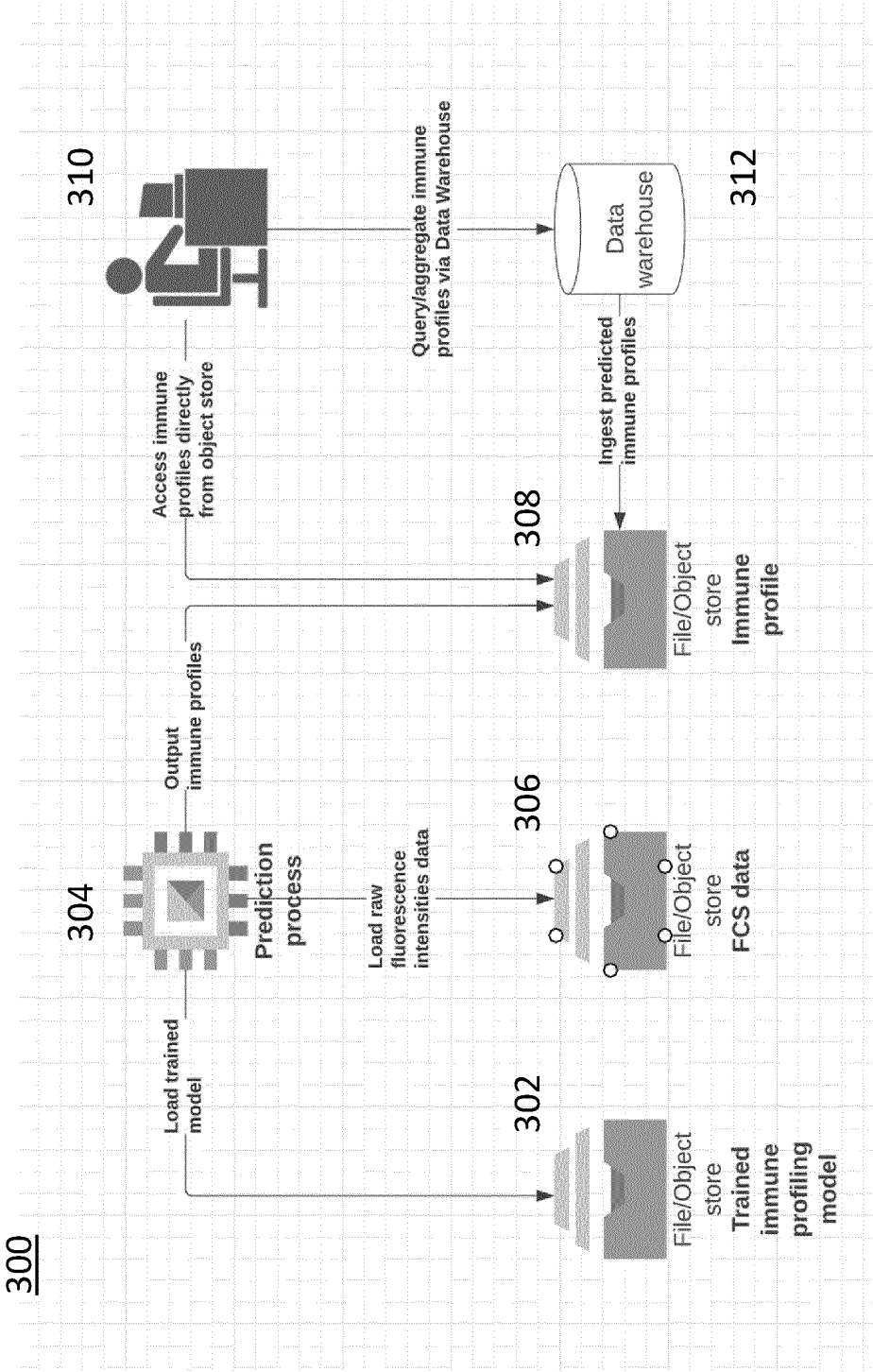


FIG. 3

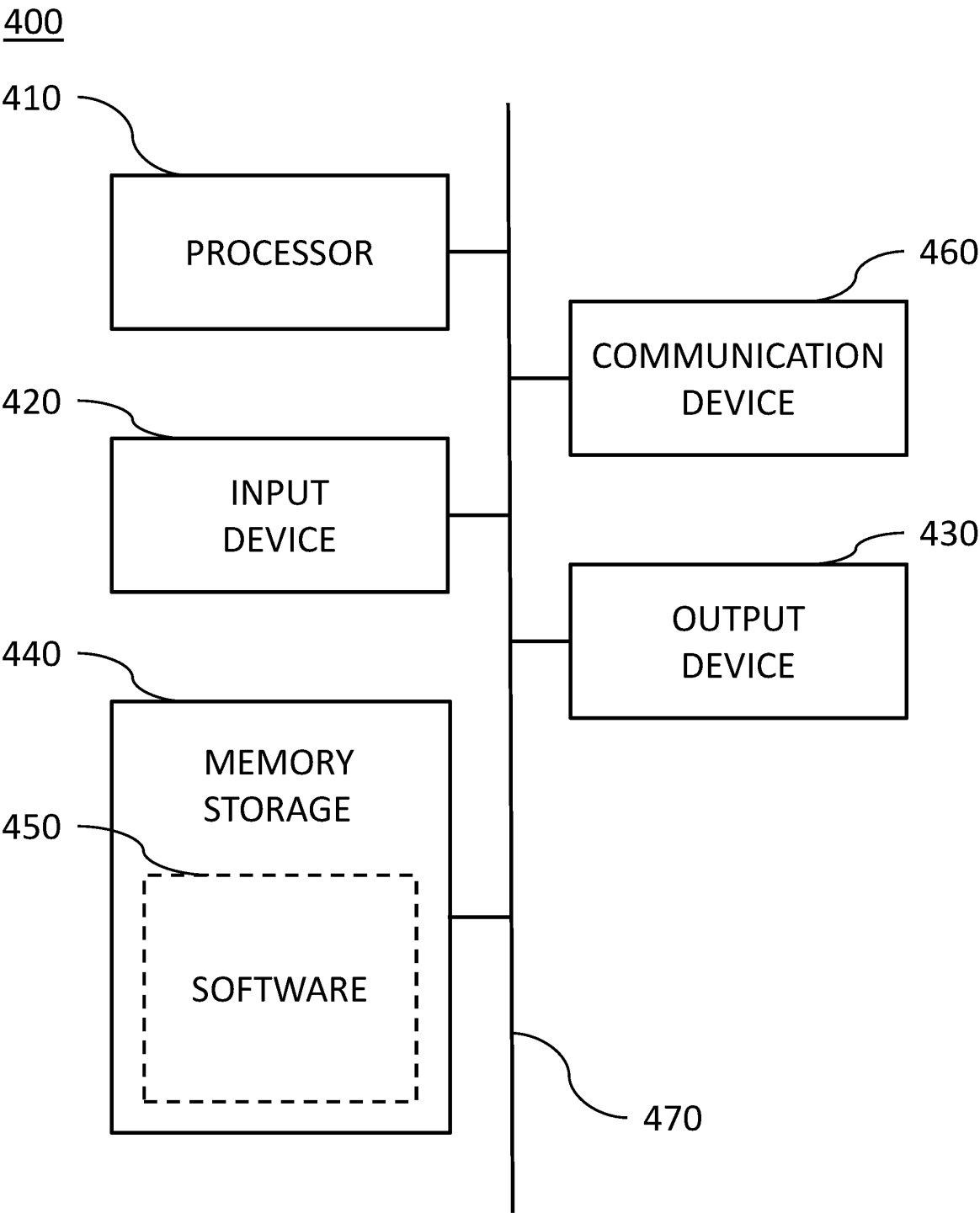


FIG. 4

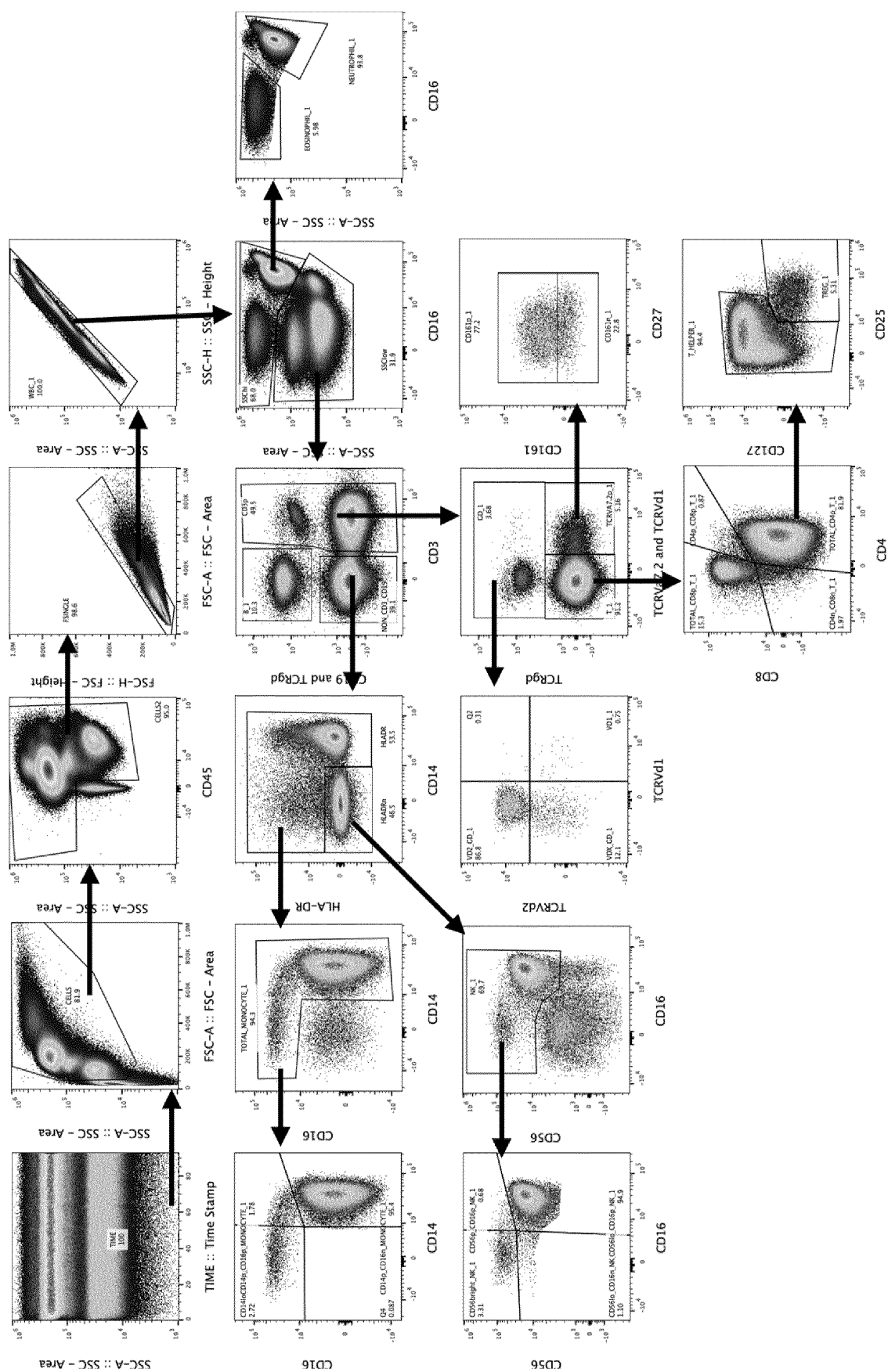


FIG. 5

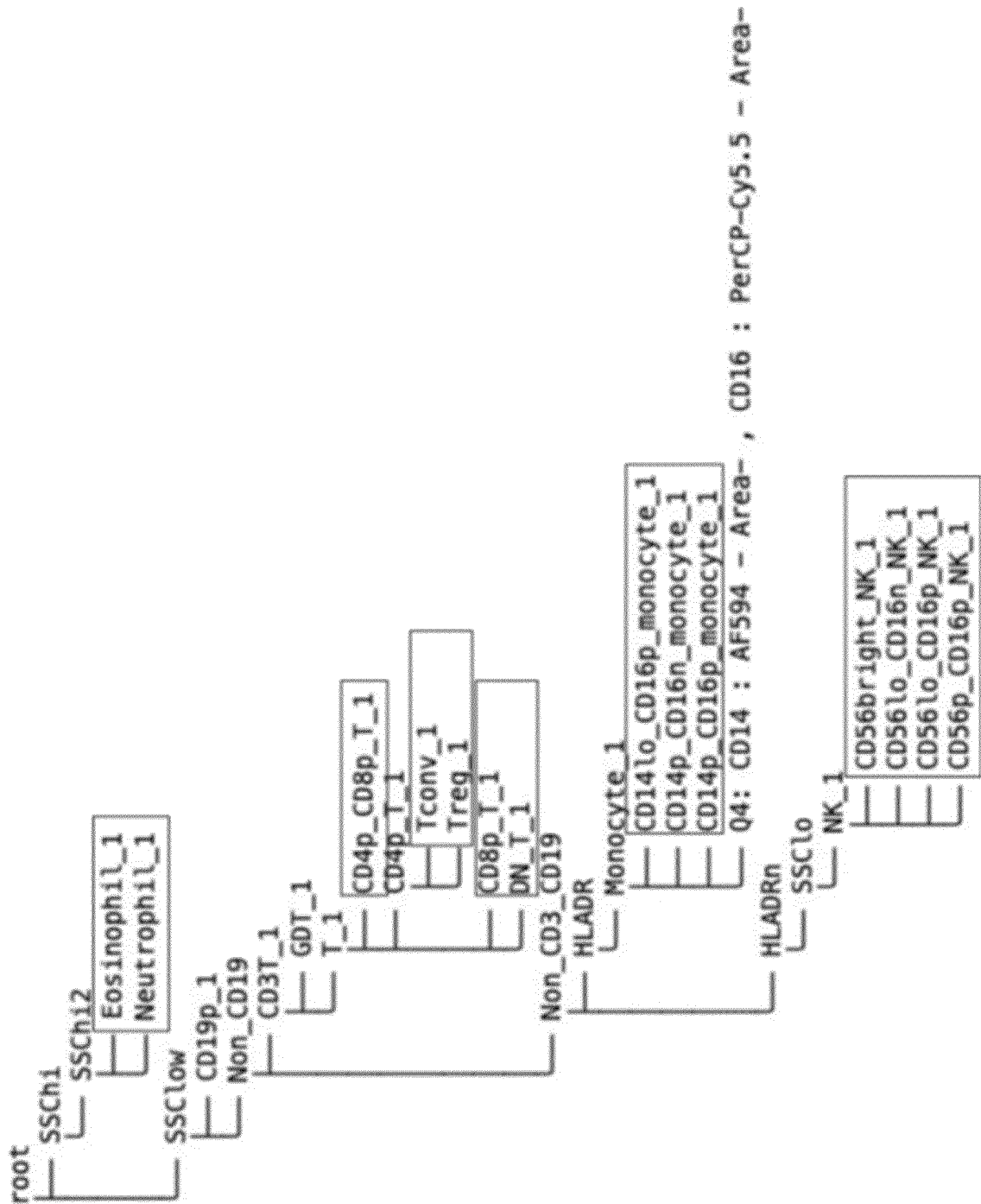


FIG. 6

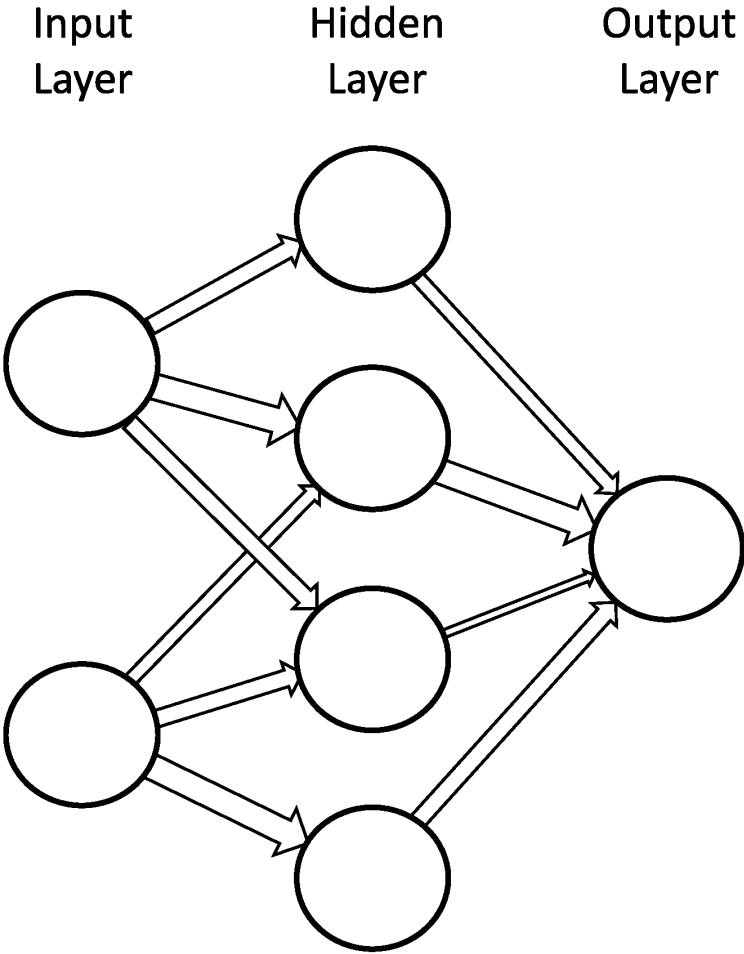


FIG. 7

|                       | precision | recall | f1-score | support |
|-----------------------|-----------|--------|----------|---------|
| Eosinophil            | 0.91      | 0.95   | 0.93     | 2856    |
| Neutrophil            | 1.00      | 1.00   | 1.00     | 34649   |
| CD19p                 | 0.96      | 0.98   | 0.97     | 4147    |
| GDT                   | 0.88      | 0.64   | 0.75     | 1169    |
| CD4p_CD8p_T           | 0.00      | 0.00   | 0.00     | 245     |
| Tconv                 | 0.95      | 0.98   | 0.96     | 11381   |
| Treg                  | 0.86      | 0.13   | 0.23     | 819     |
| CD8p_T                | 0.97      | 0.95   | 0.96     | 11289   |
| DN_T                  | 0.69      | 0.15   | 0.25     | 1176    |
| CD14lo_CD16p_monocyte | 0.00      | 0.00   | 0.00     | 512     |
| CD14p_CD16n_monocyte  | 0.91      | 0.95   | 0.93     | 4947    |
| CD14p_CD16p_monocyte  | 0.00      | 0.00   | 0.00     | 34      |
| CD56bright_NK         | 0.83      | 0.19   | 0.31     | 294     |
| CD56lo_CD16n_NK       | 0.00      | 0.00   | 0.00     | 187     |
| CD56lo_CD16p_NK       | 0.92      | 0.98   | 0.95     | 5407    |
| CD56p_CD16p_NK        | 0.00      | 0.00   | 0.00     | 56      |
| unclassified          | 0.77      | 0.42   | 0.55     | 3866    |
| micro avg             | 0.96      | 0.92   | 0.94     | 83034   |
| macro avg             | 0.63      | 0.49   | 0.52     | 83034   |
| weighted avg          | 0.94      | 0.92   | 0.92     | 83034   |
| samples avg           | 0.91      | 0.92   | 0.91     | 83034   |

FIG. 8

|                       | precision | recall | f1-score | support |
|-----------------------|-----------|--------|----------|---------|
| Eosinophil            | 0.98      | 0.96   | 0.97     | 32857   |
| Neutrophil            | 1.00      | 1.00   | 1.00     | 600498  |
| CD19p                 | 0.99      | 0.99   | 0.99     | 30234   |
| GDT                   | 0.98      | 0.96   | 0.97     | 13145   |
| CD4p_CD8p_T           | 0.85      | 0.62   | 0.72     | 2058    |
| Tconv                 | 0.99      | 0.99   | 0.99     | 126457  |
| Treg                  | 0.97      | 0.95   | 0.96     | 8634    |
| CD8p_T                | 0.99      | 0.98   | 0.98     | 71568   |
| DN_T                  | 0.88      | 0.85   | 0.86     | 9304    |
| CD14lo_CD16p_monocyte | 0.92      | 0.86   | 0.89     | 7323    |
| CD14p_CD16n_monocyte  | 0.98      | 0.97   | 0.97     | 74074   |
| CD14p_CD16p_monocyte  | 0.79      | 0.52   | 0.63     | 1105    |
| CD56bright_NK         | 0.96      | 0.88   | 0.92     | 2962    |
| CD56lo_CD16n_NK       | 0.72      | 0.35   | 0.47     | 2025    |
| CD56lo_CD16p_NK       | 0.95      | 0.98   | 0.97     | 54604   |
| CD56p_CD16p_NK        | 0.72      | 0.22   | 0.34     | 284     |
| unclassified          | 0.90      | 0.88   | 0.89     | 46234   |
| micro avg             | 0.98      | 0.98   | 0.98     | 1083366 |
| macro avg             | 0.92      | 0.82   | 0.85     | 1083366 |
| weighted avg          | 0.98      | 0.98   | 0.98     | 1083366 |
| samples avg           | 0.98      | 0.98   | 0.98     | 1083366 |

FIG. 9

|                       | precision | recall | f1-score | support |
|-----------------------|-----------|--------|----------|---------|
| Eosinophil            | 0.98      | 0.97   | 0.98     | 5613    |
| Neutrophil            | 1.00      | 1.00   | 1.00     | 265253  |
| CD19p                 | 1.00      | 0.99   | 0.99     | 15790   |
| GDT                   | 0.96      | 0.99   | 0.98     | 16439   |
| CD4p_CD8p_T           | 0.70      | 0.75   | 0.73     | 438     |
| Tconv                 | 0.99      | 0.98   | 0.98     | 51222   |
| Treg                  | 0.89      | 0.98   | 0.93     | 2504    |
| CD8p_T                | 0.98      | 0.97   | 0.98     | 22539   |
| DN_T                  | 0.91      | 0.89   | 0.90     | 3033    |
| CD14lo_CD16p_monocyte | 0.99      | 0.56   | 0.71     | 2907    |
| CD14p_CD16n_monocyte  | 0.95      | 0.99   | 0.97     | 25011   |
| CD14p_CD16p_monocyte  | 0.40      | 0.22   | 0.28     | 254     |
| CD56bright_NK         | 0.65      | 0.99   | 0.79     | 373     |
| CD56lo_CD16n_NK       | 0.12      | 0.34   | 0.18     | 154     |
| CD56lo_CD16p_NK       | 0.98      | 0.91   | 0.94     | 17788   |
| CD56p_CD16p_NK        | 0.00      | 0.00   | 0.00     | 34      |
| unclassified          | 0.91      | 0.85   | 0.88     | 14317   |
| micro avg             | 0.99      | 0.98   | 0.98     | 443669  |
| macro avg             | 0.79      | 0.79   | 0.78     | 443669  |
| weighted avg          | 0.99      | 0.98   | 0.98     | 443669  |
| samples avg           | 0.98      | 0.98   | 0.98     | 443669  |

FIG. 10

|                       | precision | recall | f1-score | support |
|-----------------------|-----------|--------|----------|---------|
| Eosinophil            | 1.00      | 0.96   | 0.98     | 37404   |
| Neutrophil            | 1.00      | 1.00   | 1.00     | 127227  |
| CD19p                 | 0.99      | 0.95   | 0.97     | 5598    |
| GDT                   | 0.99      | 0.96   | 0.98     | 5051    |
| CD4p_CD8p_T           | 0.92      | 0.39   | 0.55     | 807     |
| Tconv                 | 0.97      | 1.00   | 0.98     | 31754   |
| Treg                  | 0.93      | 0.96   | 0.94     | 1998    |
| CD8p_T                | 0.99      | 0.96   | 0.97     | 38204   |
| DN_T                  | 0.45      | 0.74   | 0.56     | 1450    |
| CD14lo_CD16p_monocyte | 0.65      | 0.56   | 0.60     | 461     |
| CD14p_CD16n_monocyte  | 0.91      | 0.99   | 0.95     | 16549   |
| CD14p_CD16p_monocyte  | 0.70      | 0.17   | 0.27     | 112     |
| CD56bright_NK         | 0.57      | 0.97   | 0.72     | 396     |
| CD56lo_CD16n_NK       | 0.99      | 0.19   | 0.32     | 26498   |
| CD56lo_CD16p_NK       | 0.02      | 0.88   | 0.03     | 386     |
| CD56p_CD16p_NK        | 0.20      | 0.33   | 0.25     | 3       |
| unclassified          | 0.92      | 0.90   | 0.91     | 28863   |
| micro avg             | 0.91      | 0.91   | 0.91     | 322761  |
| macro avg             | 0.78      | 0.76   | 0.71     | 322761  |
| weighted avg          | 0.98      | 0.91   | 0.92     | 322761  |
| samples avg           | 0.91      | 0.91   | 0.91     | 322761  |

FIG. 11

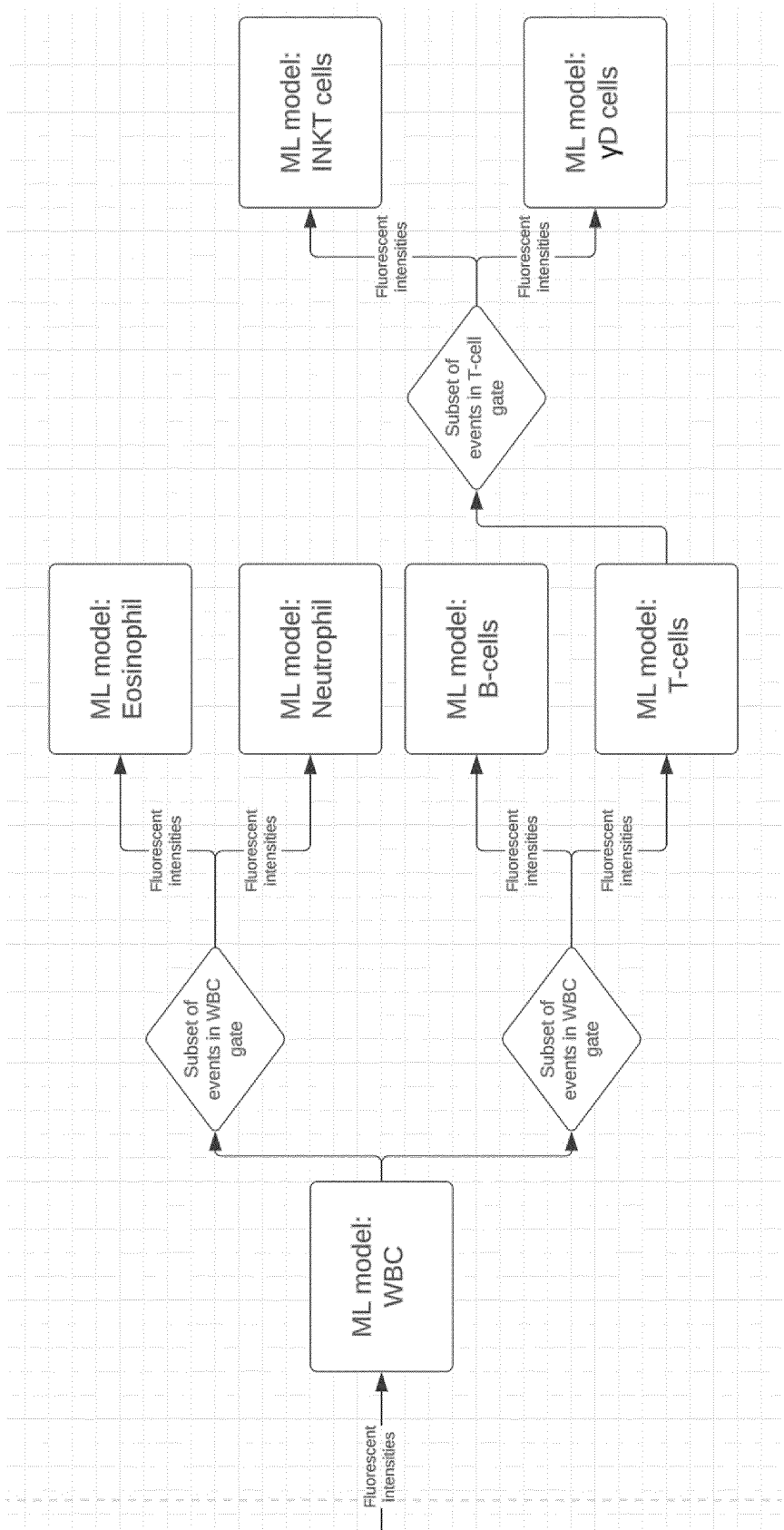


FIG. 12

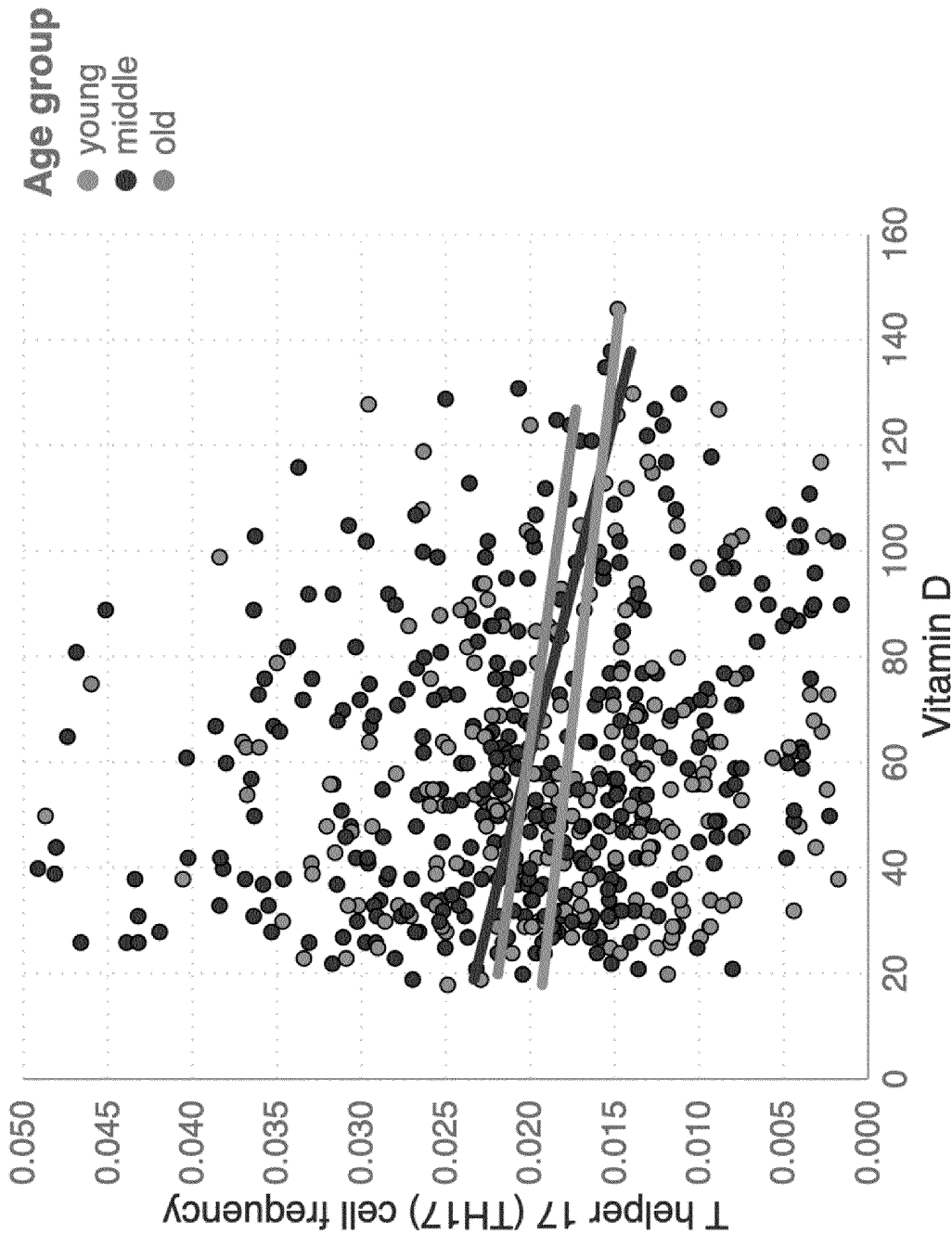


FIG. 13A

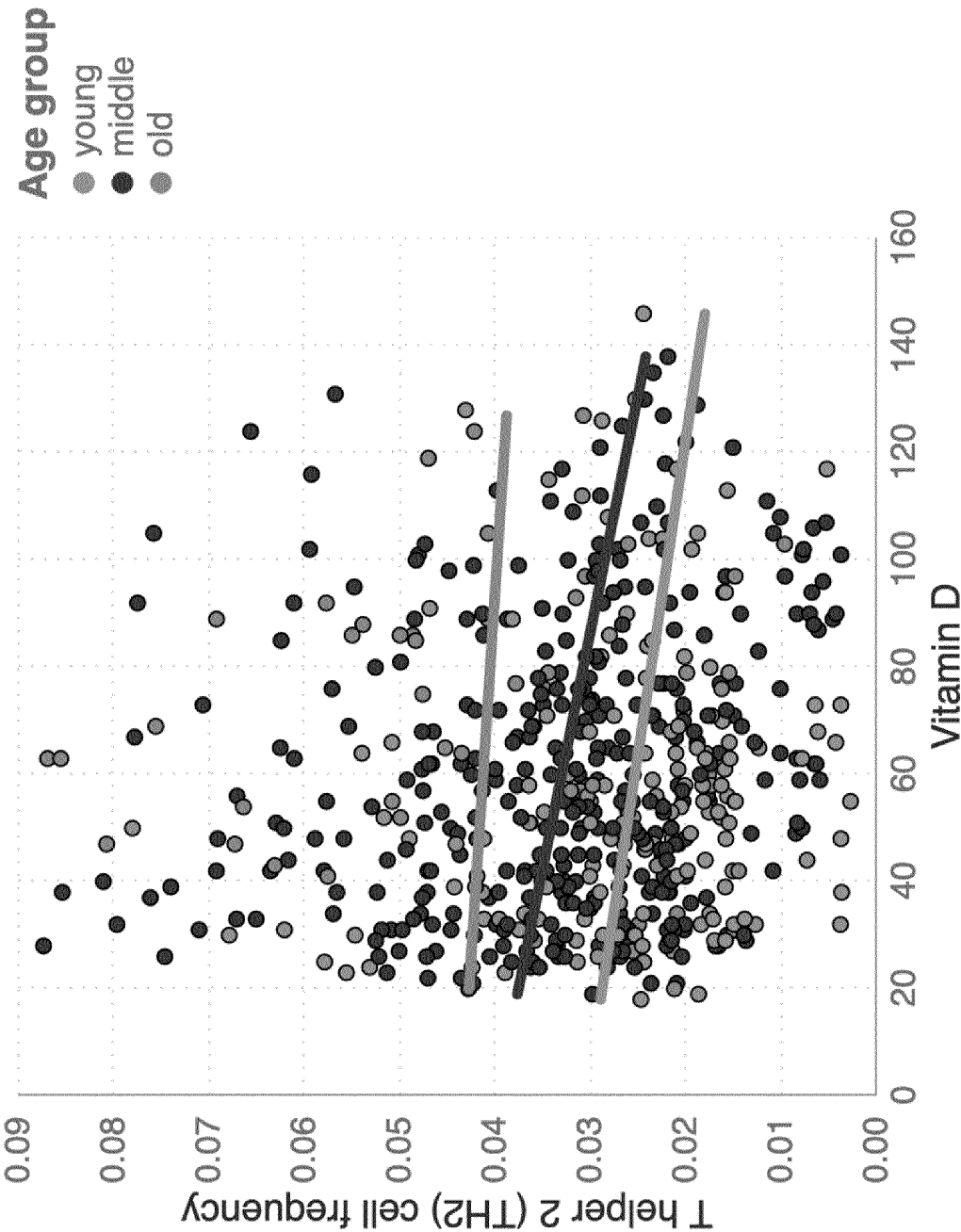


FIG. 13B