

S3. Classification based on individual or subsets of tubes

Table S1: Prediction results obtained by either SPADE+EMD+RELIEF applied to individual tubes, or summary using subsets of the tubes.

| | number of predicted normal | number of predicted AML | Precision | Recall | prediction scores |
|--------------------|-------------------------------|----------------------------|-----------|--------|----------------------|
| Tube 1 - isotype | 157 | 23 | 0.78 | 0.90 | Figure S3 |
| Tube 2 | 162 | 18 | 1 | 0.90 | Figure S4 |
| Tube 3 | 166 | 14 | 1 | 0.70 | Figure S5 |
| Tube 4 | 160 | 20 | 0.90 | 0.90 | Figure S6 |
| Tube 5 | 163 | 17 | 0.94 | 0.80 | Figure S7 |
| Tube 6 | 161 | 19 | 0.95 | 0.90 | Figure S8 |
| Tube 7 | 164 | 16 | 1 | 0.80 | Figure S9 |
| Tube 8 - unstained | 149 | 31 | 0.61 | 0.95 | Figure S10 |
| Tubes 2-7 | 160 | 20 | 1 | 1 | not shown |
| Tubes 1-8 | 160 | 20 | 1 | 1 | Figure 6 |