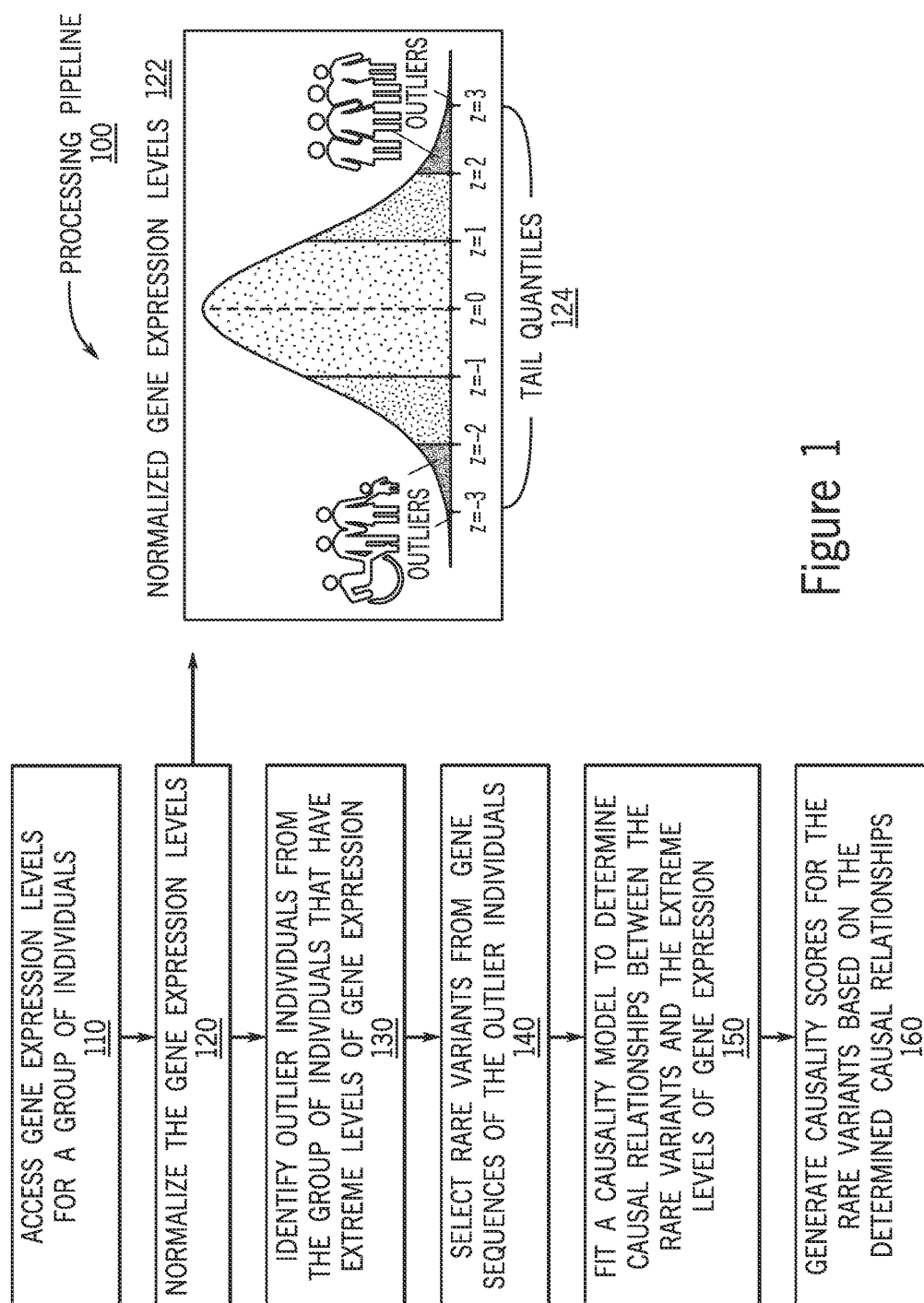




# Fungus

2 / 20

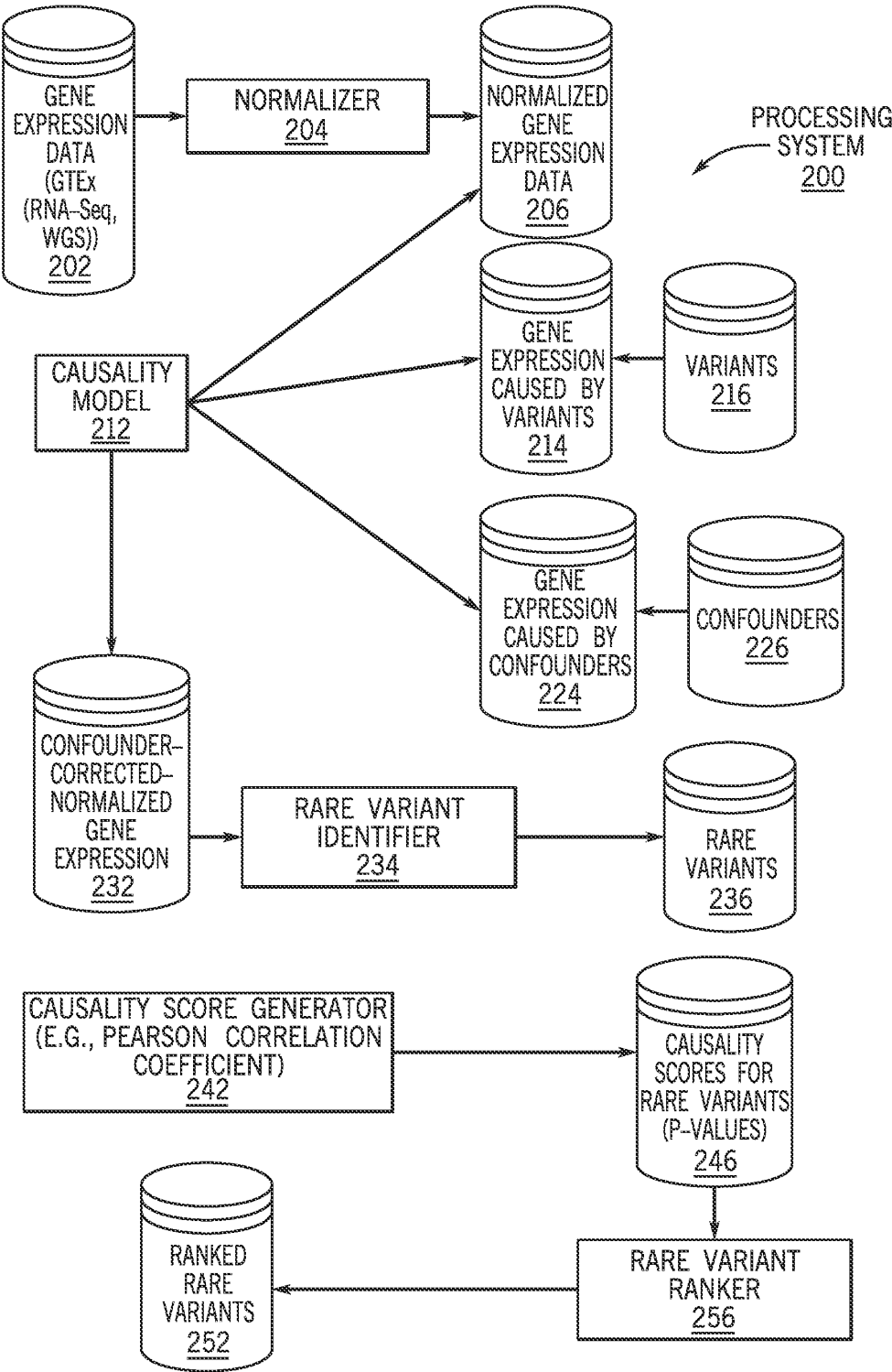
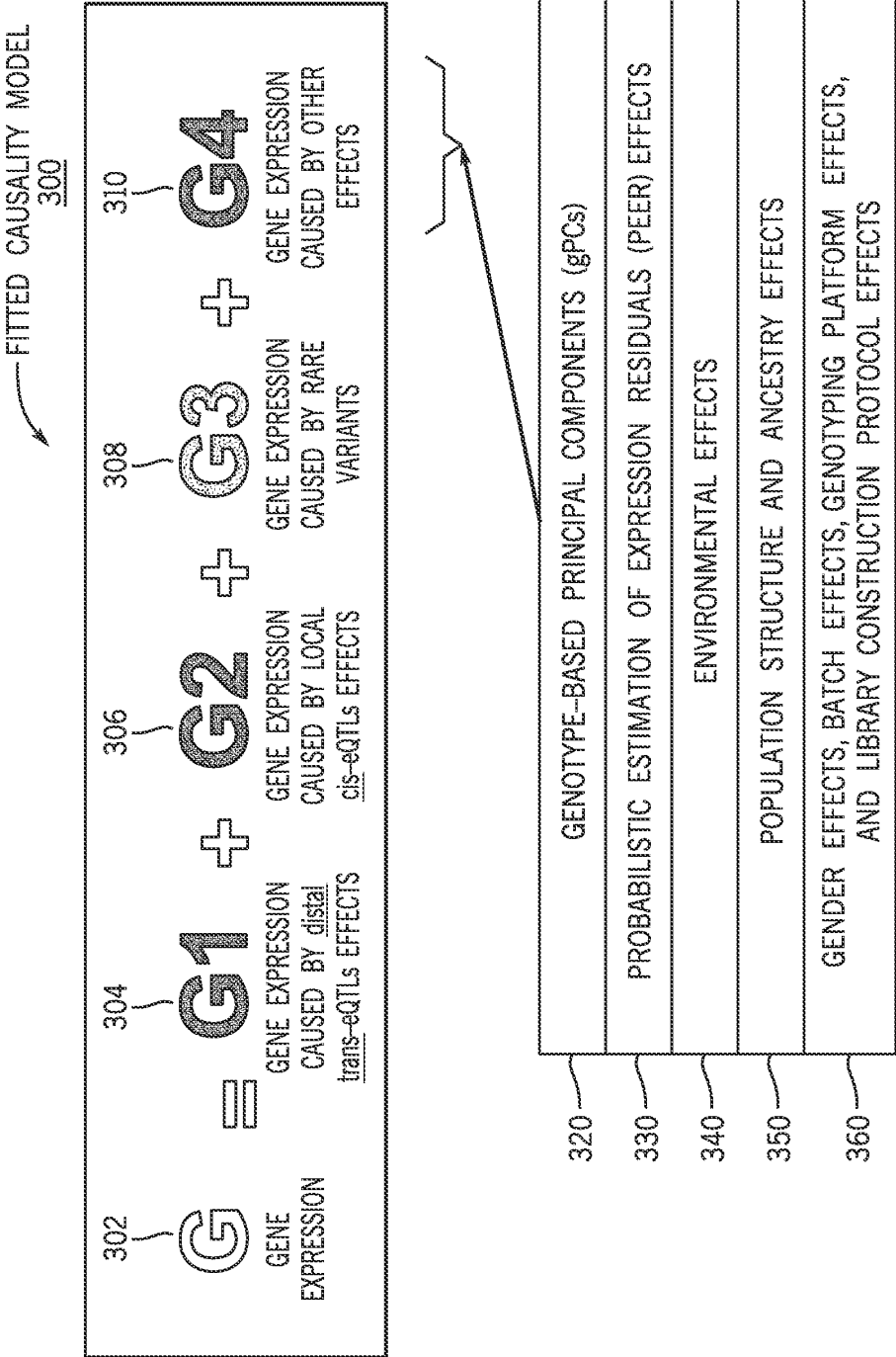


Figure 2



CAUSALITY SCORES  
400

|       |          |     |     |         |        |
|-------|----------|-----|-----|---------|--------|
| 402   | 404      | 406 | 408 | 410     | 412    |
| CHROM | POSITION | REF | ALT | p_under | p_over |
| chr1  | 923807   | T   | G   | 1.0     | 0.8247 |
| chr1  | 923815   | C   | T   | 0.8851  | 1.0    |
| chr1  | 924112   | G   | C   | 1.0     | 1.0    |
| chr1  | 924196   | G   | C   | 1.0     | 0.4938 |
| chr1  | 924319   | G   | A   | 1.0     | 0.0216 |
| chr1  | 924371   | C   | T   | 1.0     | 0.5711 |
| chr1  | 9244407  | G   | T   | 1.0     | 0.0756 |
| chr1  | 924637   | C   | G   | 1.0     | 0.0756 |
| chr1  | 924832   | G   | A   | 0.1710  | 1.0    |
| chr1  | 924908   | G   | C   | 0.2382  | 1.0    |
| chr1  | 925475   | C   | T   | 0.2376  | 1.0    |
| chr1  | 925642   | G   | C   | 1.0     | 0.2632 |
| chr1  | 925874   | A   | G   | 0.3254  | 1.0    |
| chr1  | 926136   | C   | T   | 0.9236  | 1.0    |
| chr1  | 926231   | G   | C   | 1.0     | 0.0319 |
| chr1  | 926278   | C   | T   | 0.9808  | 1.0    |
| chr1  | 926423   | C   | G   | 1.0     | 0.6785 |
| chr1  | 926445   | C   | T   | 1.0     | 0.9717 |
| chr1  | 926566   | C   | T   | 0.3254  | 1.0    |
| chr1  | 926865   | A   | G   | 1.0     | 0.6782 |
| chr1  | 926877   | C   | T   | 1.0     | 0.3079 |
| chr1  | 927039   | G   | T   | 0.9976  | 1.0    |
| chr1  | 927194   | C   | T   | 1.0     | 0.7293 |
| chr1  | 927194   | C   | T   | 1.0     | 0.0185 |

Figure 4

5 / 20

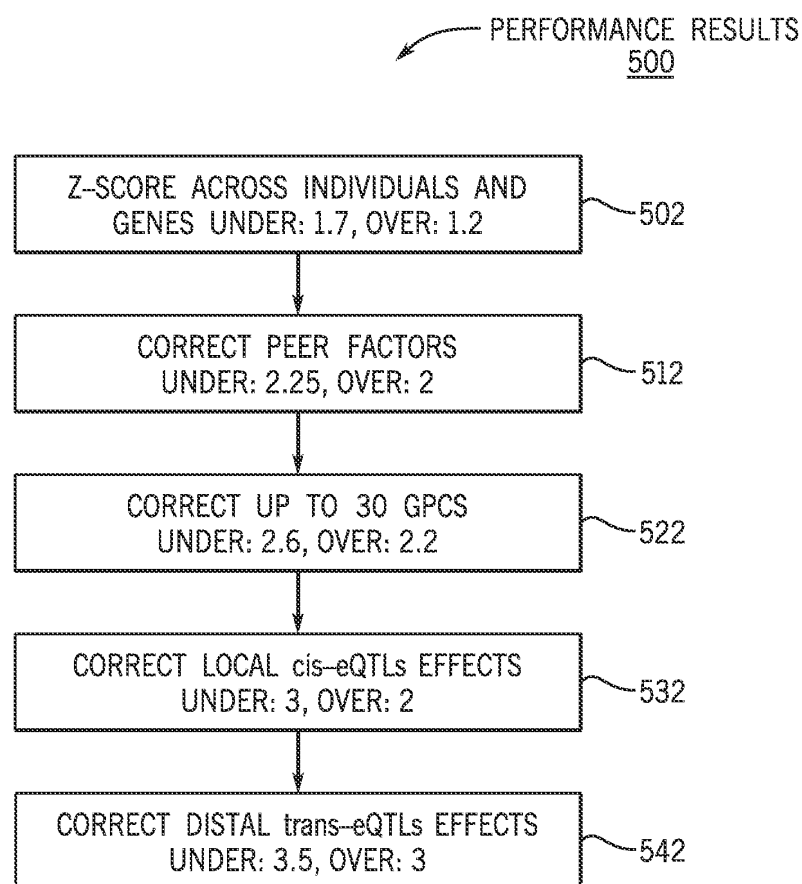


Figure 5

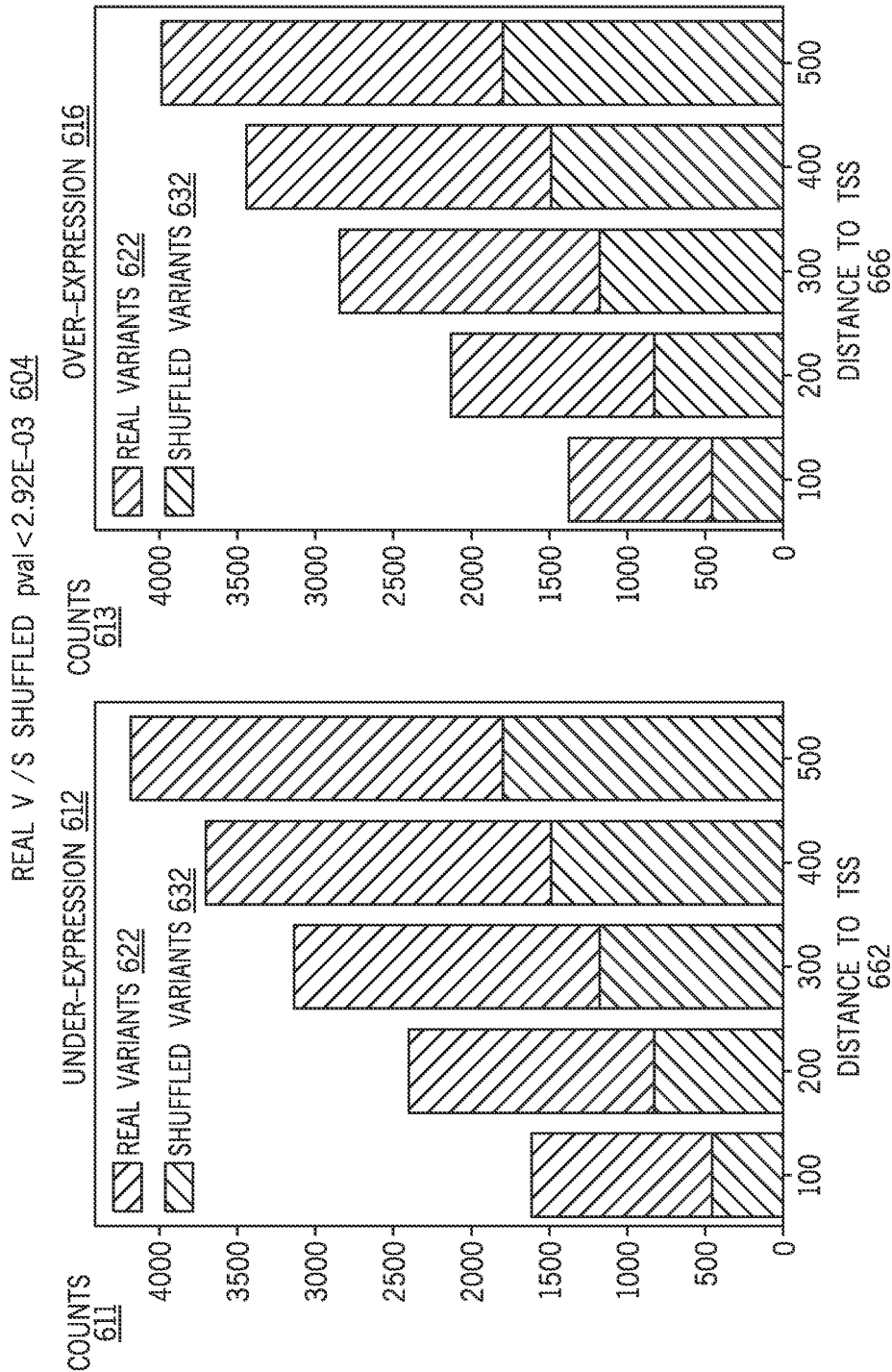


Figure 6

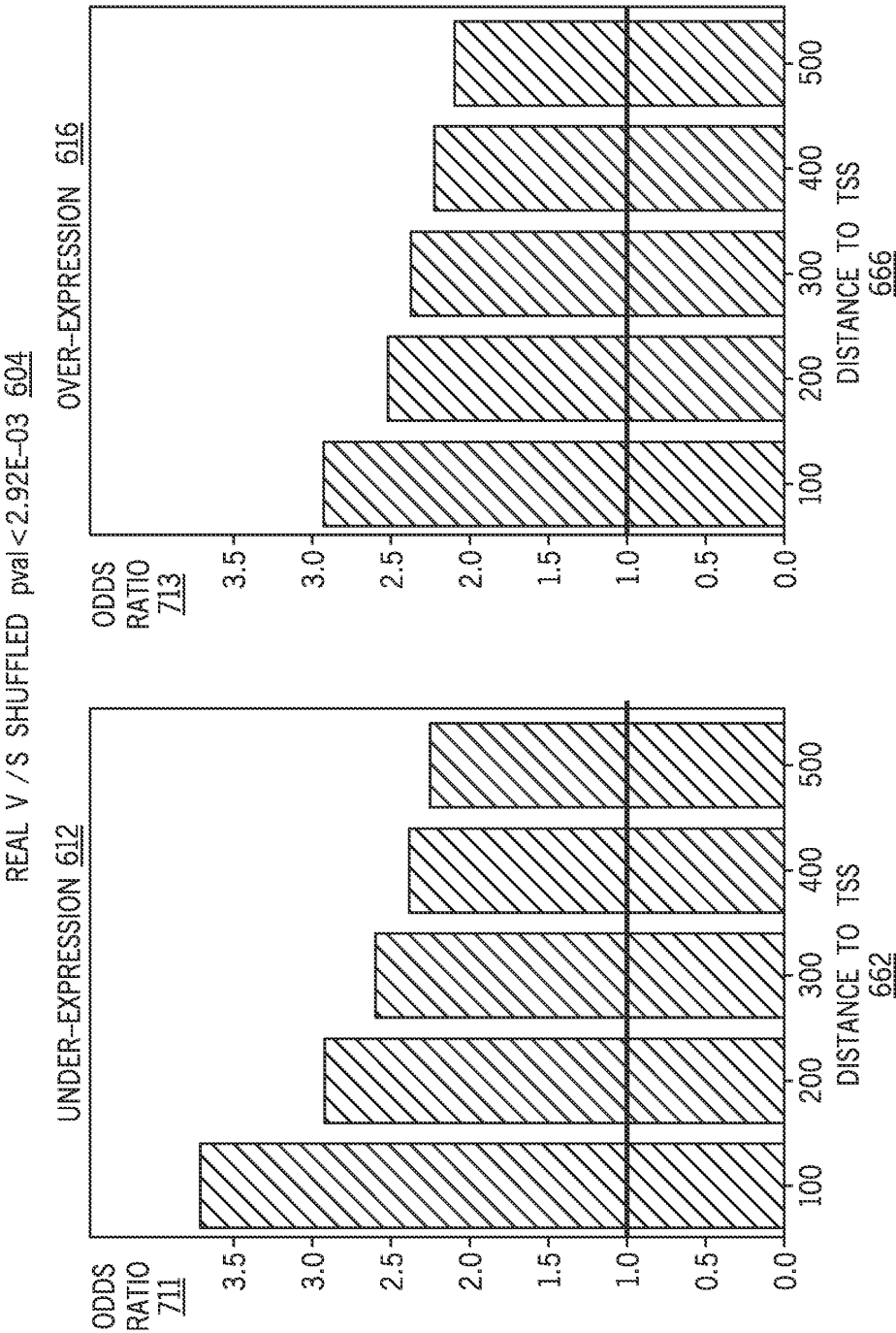


Figure 7

EXAMPLE ARCHITECTURE 800  
OF  
CHROMATIN MODEL 802

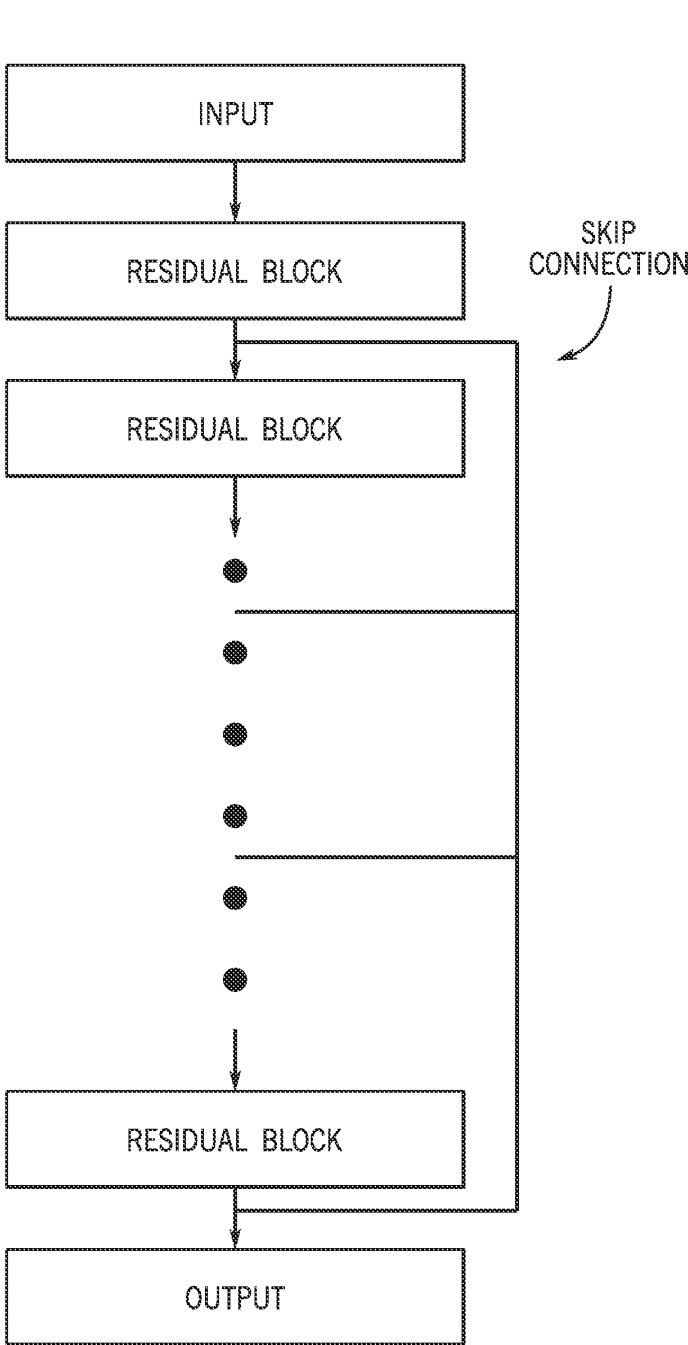
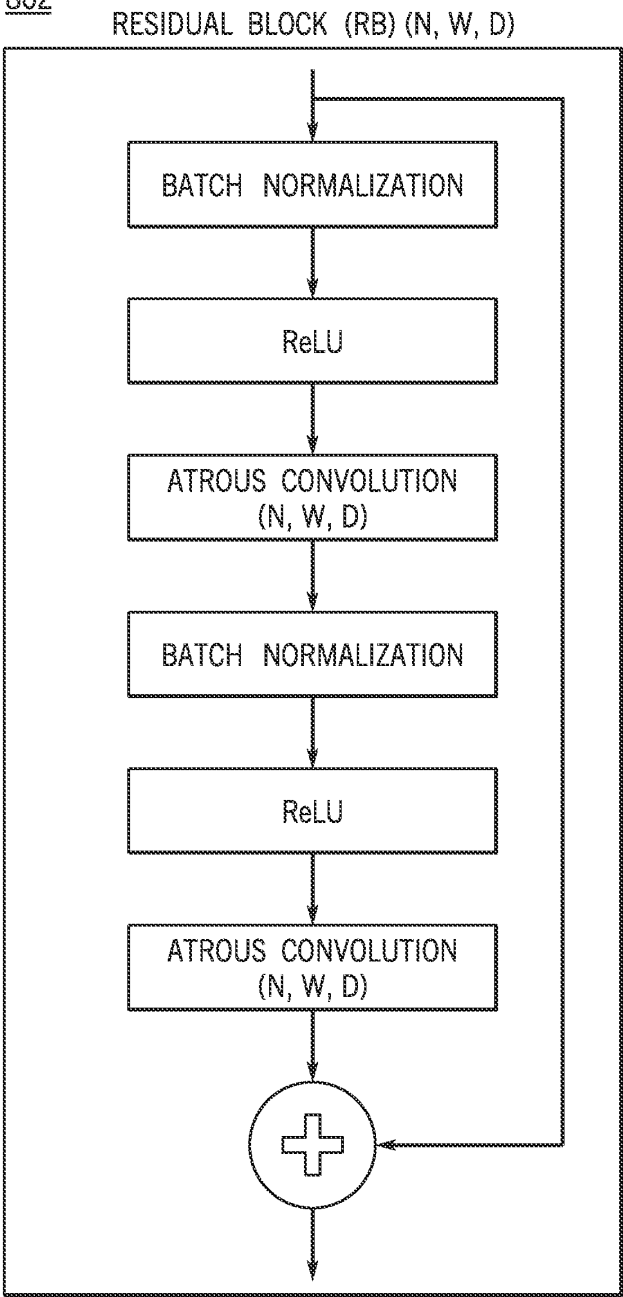


Figure 8

EXAMPLE ARCHITECTURE 900  
OF  
CHROMATIN MODEL 802



N: NUMBER OF CONVOLUTION FILTERS  
W: CONVOLUTION WINDOW SIZE  
D: ATROUS CONVOLUTION RATE

Figure 9

10 / 20

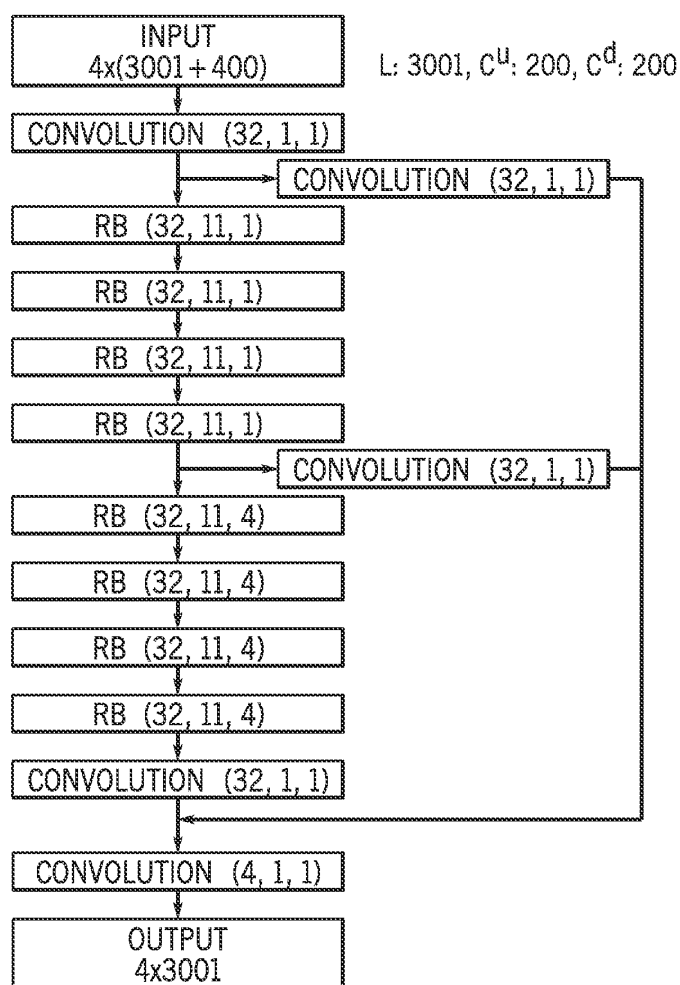
EXAMPLE ARCHITECTURE 1000  
OF  
CHROMATIN MODEL 802

Figure 10

EXAMPLE ARCHITECTURE 1100  
OF  
CHROMATIN MODEL 802

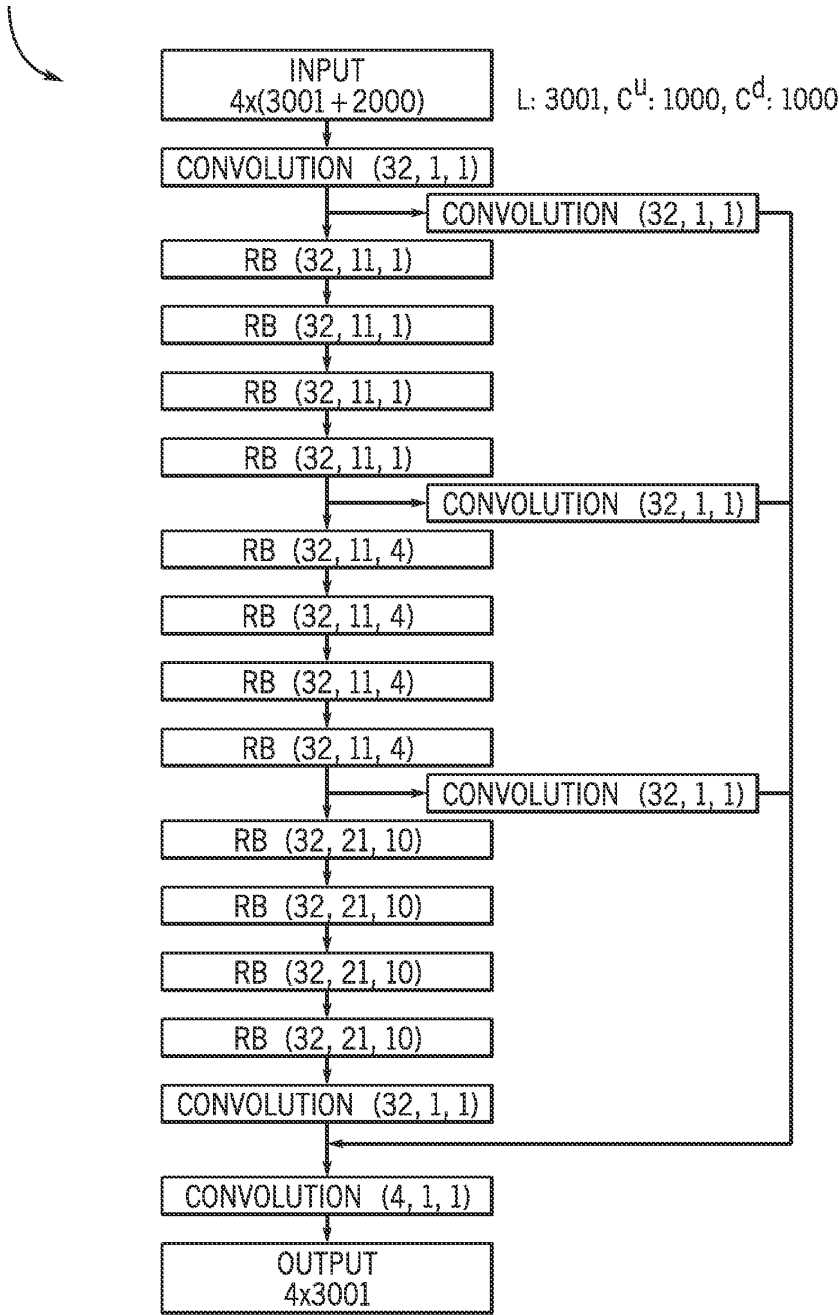
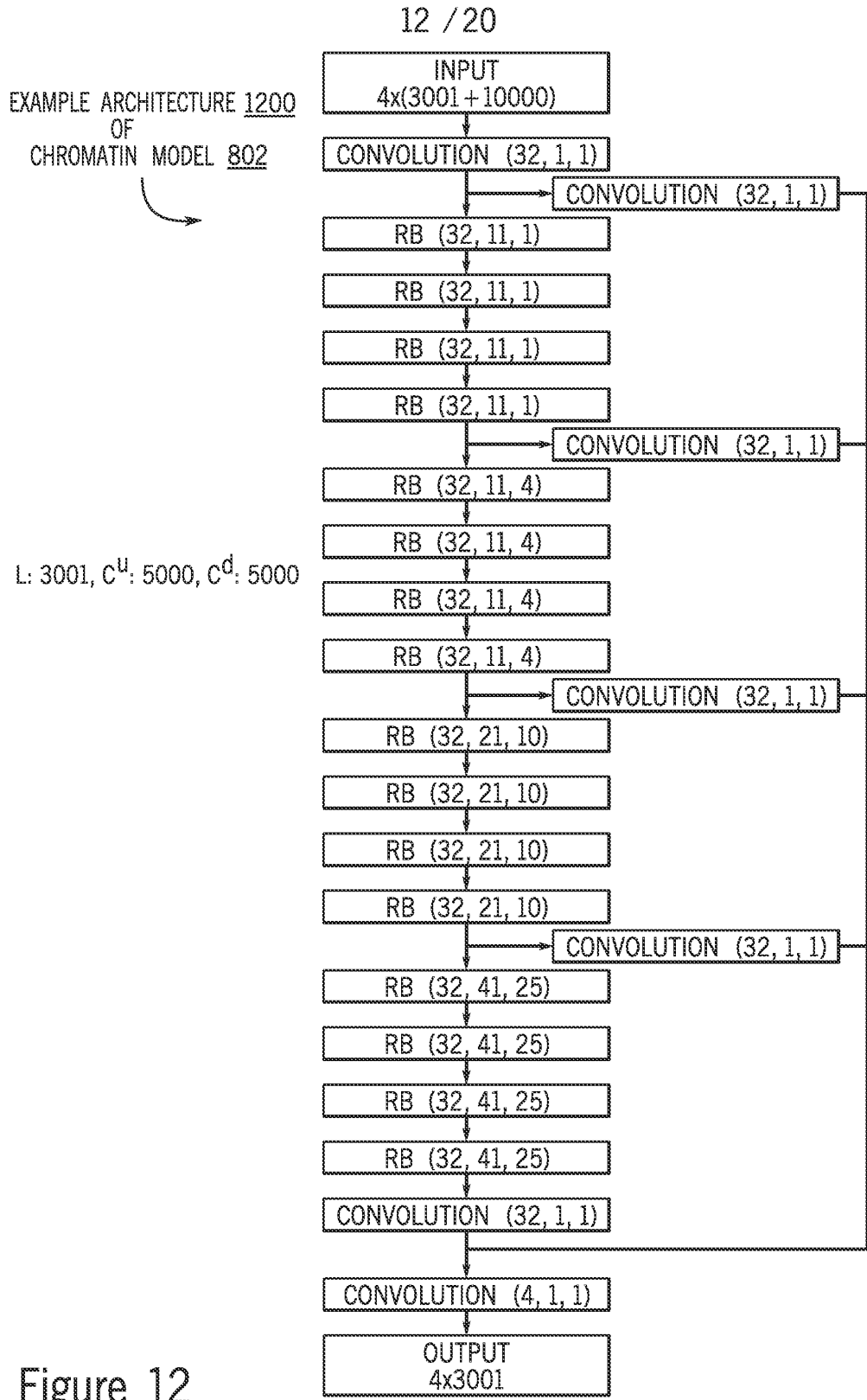


Figure 11



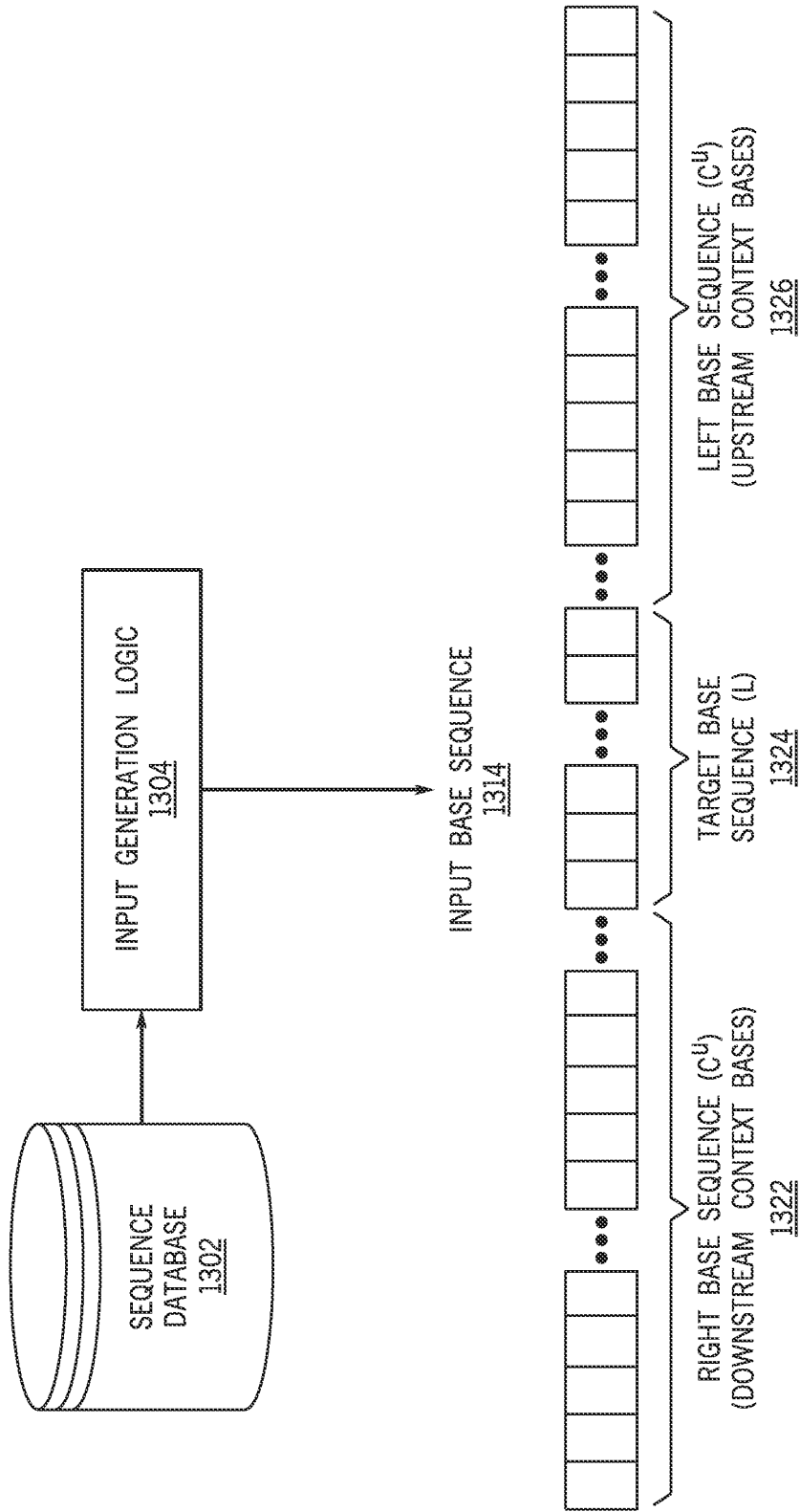


Figure 13

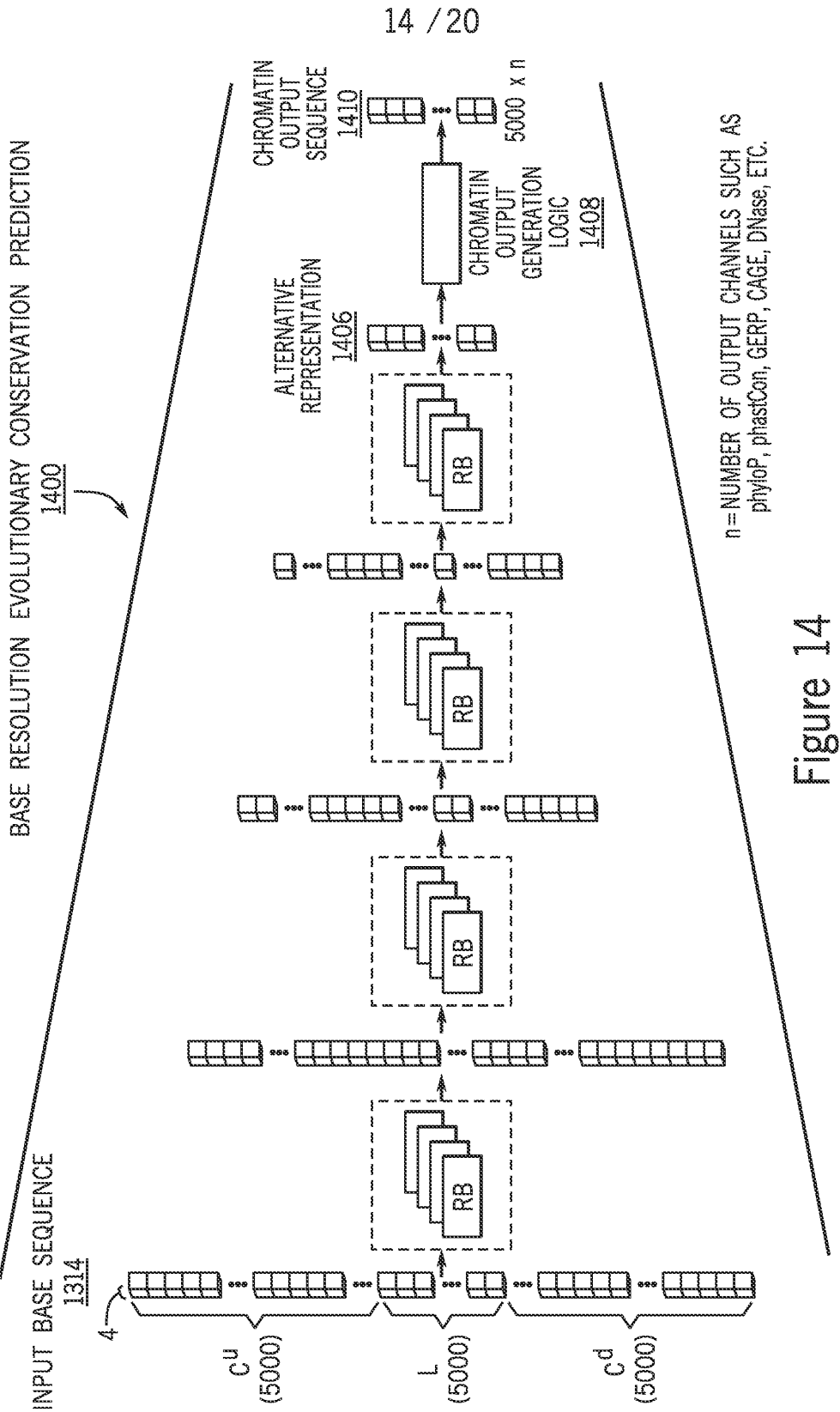


Figure 14

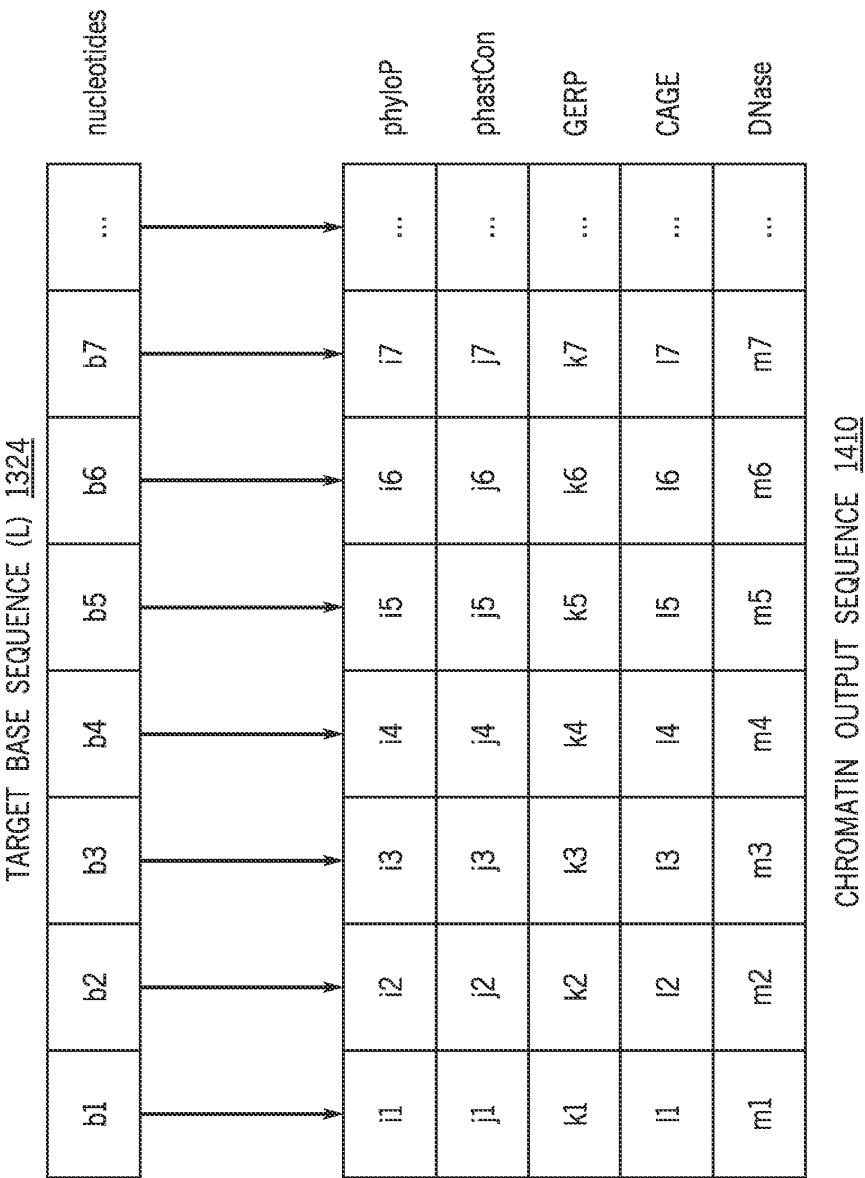


Figure 15

16 / 20

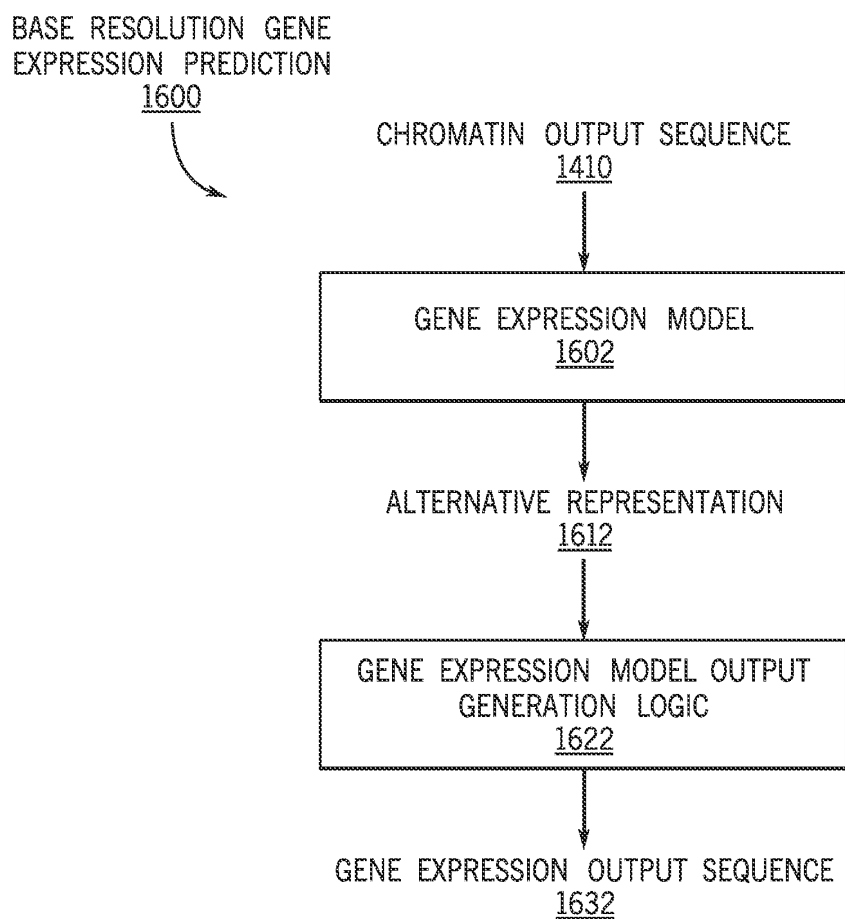


Figure 16

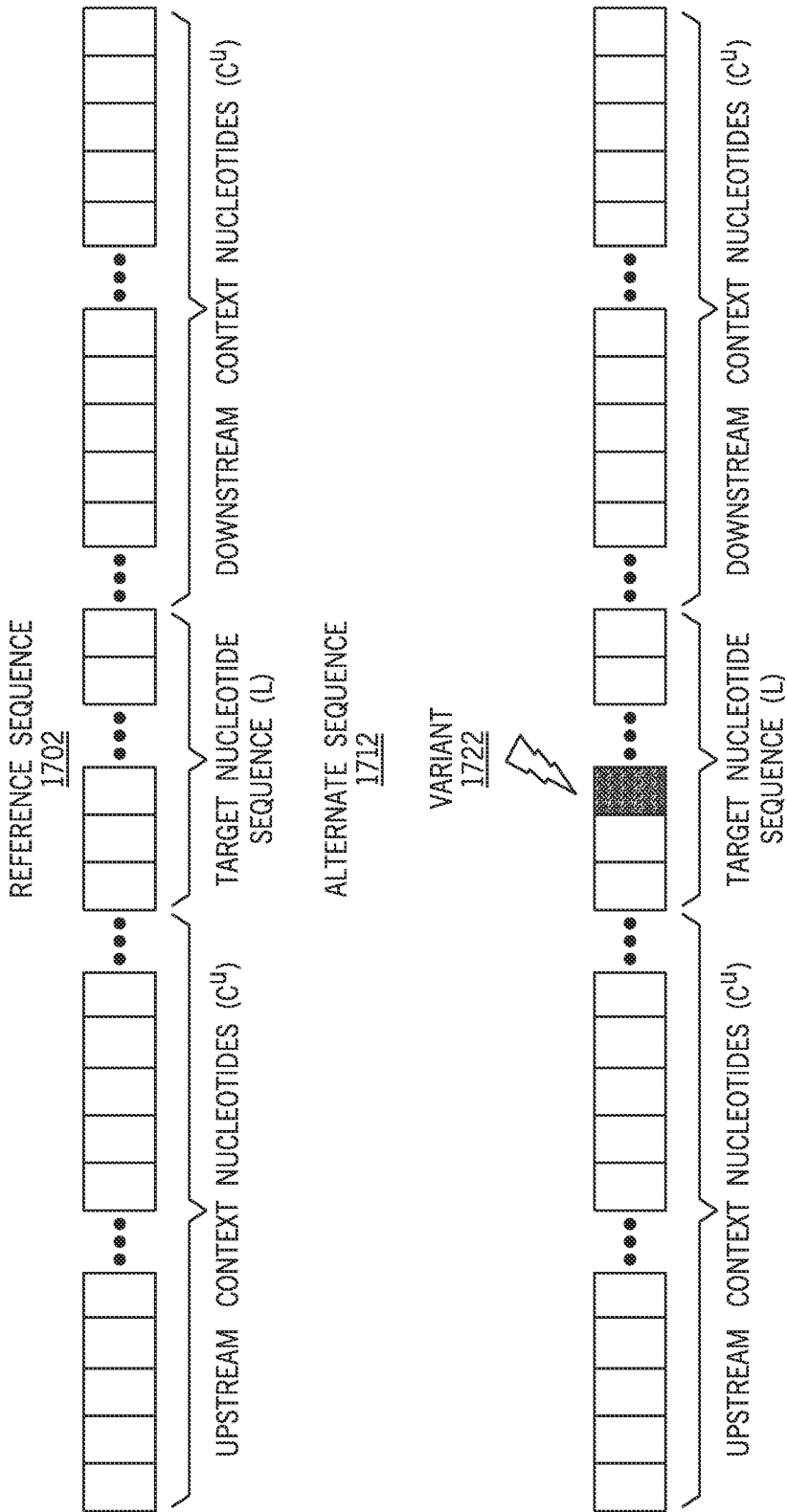


Figure 17

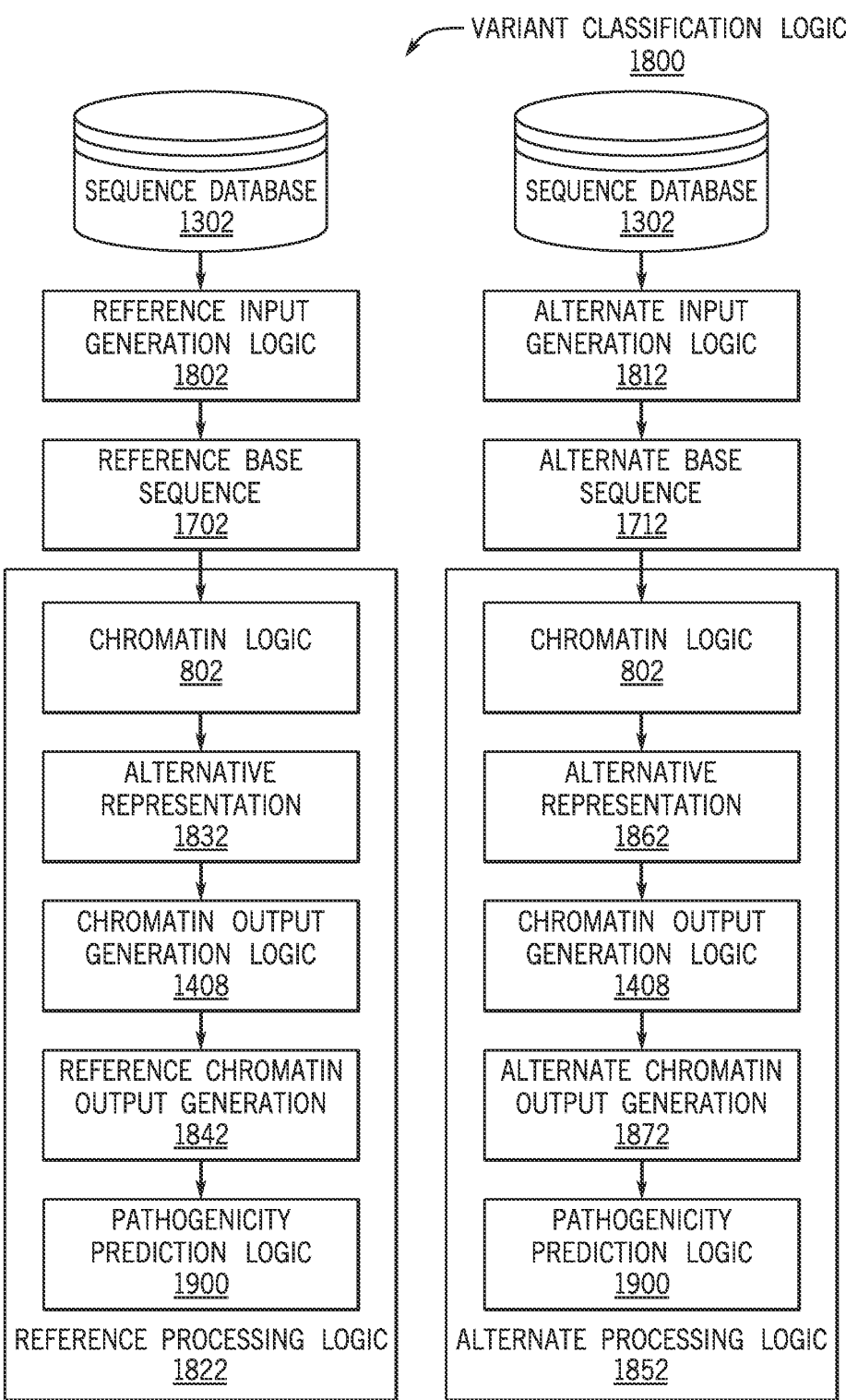


Figure 18

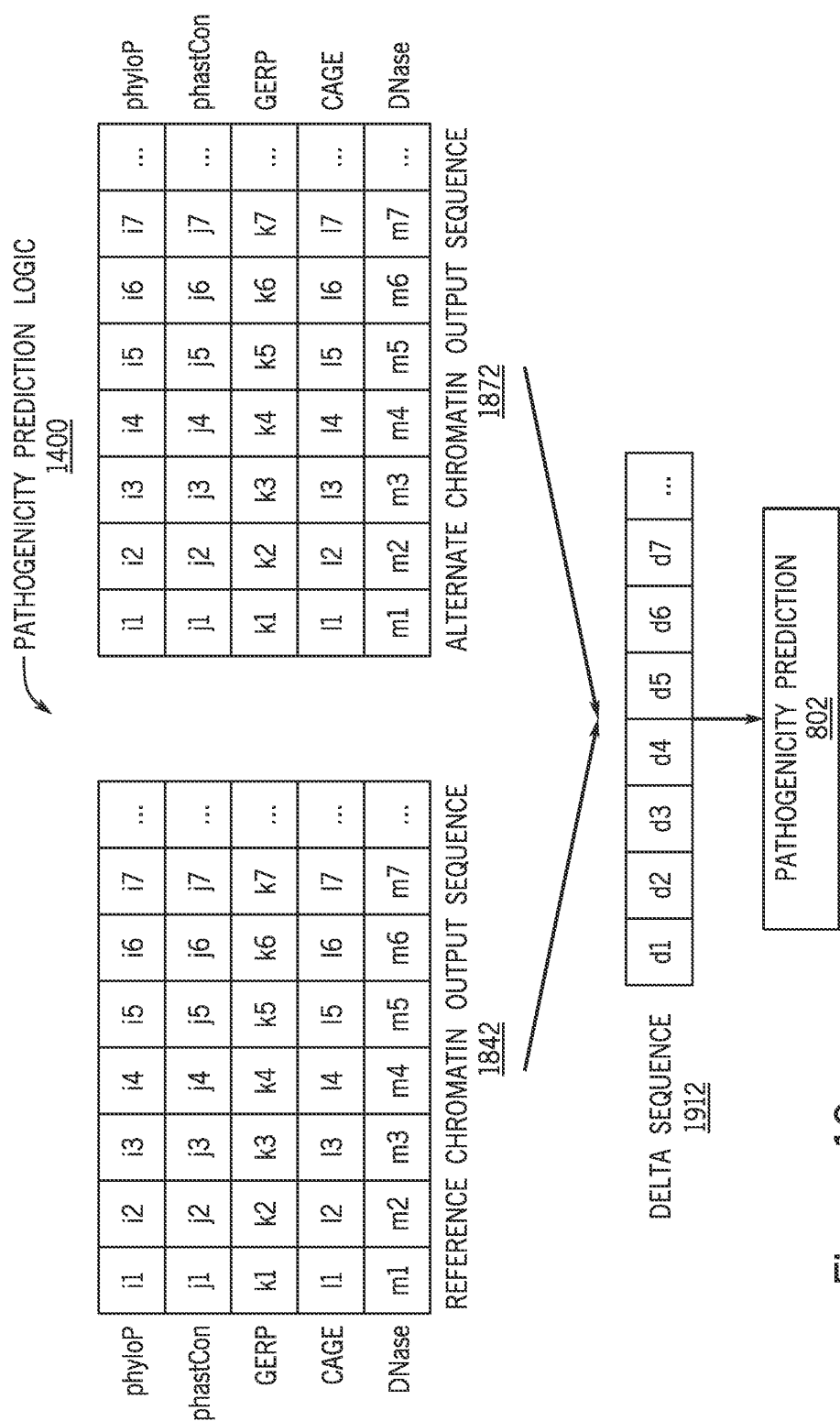


Figure 19

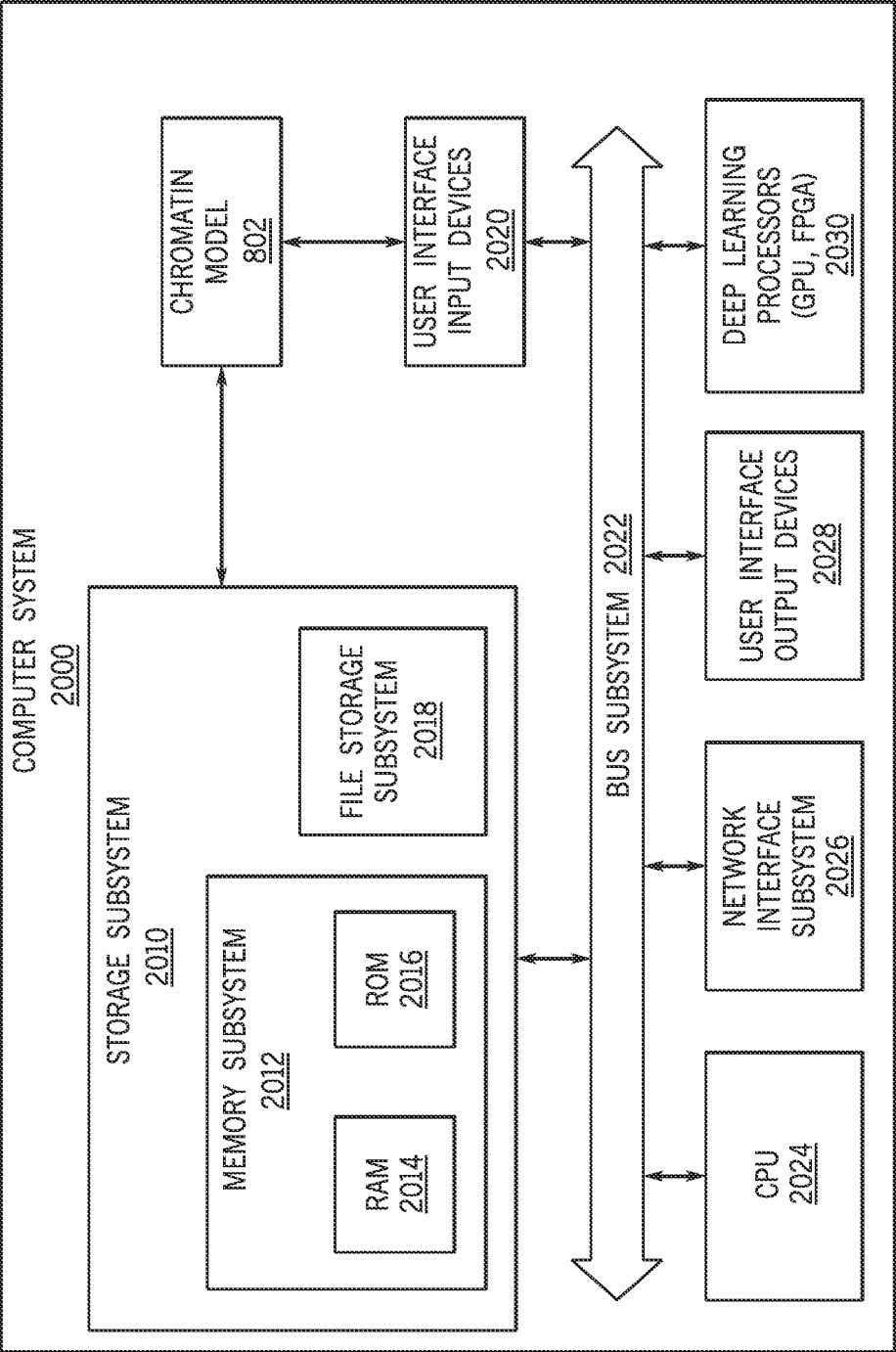


Figure 20