

## Position Specific Probability Matrices for *P. infestans* (Alphabet=ACGT)

### INR

|          |          |          |          |
|----------|----------|----------|----------|
| 0.003717 | 0.163569 | 0.055762 | 0.776952 |
| 0.026022 | 0.955390 | 0.014870 | 0.003717 |
| 0.992565 | 0.000000 | 0.007435 | 0.000000 |
| 0.066914 | 0.375465 | 0.011152 | 0.546468 |
| 0.081784 | 0.007435 | 0.011152 | 0.899628 |
| 0.011825 | 0.484491 | 0.011341 | 0.492343 |
| 0.014165 | 0.398810 | 0.013040 | 0.573985 |

### FPR

|          |          |          |          |
|----------|----------|----------|----------|
| 0.765000 | 0.150000 | 0.070000 | 0.015000 |
| 0.635000 | 0.000000 | 0.000000 | 0.365000 |
| 0.015000 | 0.050000 | 0.035000 | 0.900000 |
| 0.000000 | 0.005000 | 0.000000 | 0.995000 |
| 0.000000 | 0.100000 | 0.025000 | 0.875000 |
| 0.125000 | 0.210000 | 0.600000 | 0.065000 |
| 0.031372 | 0.823095 | 0.034622 | 0.110911 |

### INR+FPR

|          |          |          |          |
|----------|----------|----------|----------|
| 0.003125 | 0.209375 | 0.084375 | 0.703125 |
| 0.015625 | 0.959375 | 0.012500 | 0.012500 |
| 0.965625 | 0.003125 | 0.031250 | 0.000000 |
| 0.103125 | 0.325000 | 0.009375 | 0.562500 |
| 0.106250 | 0.006250 | 0.015625 | 0.871875 |
| 0.021875 | 0.487500 | 0.000000 | 0.490625 |
| 0.006250 | 0.412500 | 0.021875 | 0.559375 |
| 0.134375 | 0.296875 | 0.315625 | 0.253125 |
| 0.184375 | 0.471875 | 0.259375 | 0.084375 |
| 0.600000 | 0.212500 | 0.087500 | 0.100000 |
| 0.606250 | 0.003125 | 0.050000 | 0.340625 |
| 0.125000 | 0.062500 | 0.006250 | 0.806250 |
| 0.059375 | 0.012500 | 0.037500 | 0.890625 |
| 0.028125 | 0.112500 | 0.046875 | 0.812500 |
| 0.115625 | 0.175000 | 0.534375 | 0.175000 |
| 0.100000 | 0.690625 | 0.043750 | 0.165625 |

DPE

|          |          |          |          |
|----------|----------|----------|----------|
| 0.000000 | 0.623616 | 0.376384 | 0.000000 |
| 1.000000 | 0.000000 | 0.000000 | 0.000000 |
| 1.000000 | 0.000000 | 0.000000 | 0.000000 |
| 0.000000 | 0.420664 | 0.579336 | 0.000000 |
| 0.774908 | 0.225092 | 0.000000 | 0.000000 |
| 0.594096 | 0.405904 | 0.000000 | 0.000000 |
| 0.000000 | 0.538745 | 0.461255 | 0.000000 |

CCAAT

|          |          |          |          |
|----------|----------|----------|----------|
| 0.036667 | 0.073333 | 0.123333 | 0.766667 |
| 0.216667 | 0.010000 | 0.096667 | 0.676667 |
| 0.063333 | 0.006667 | 0.026667 | 0.903333 |
| 0.013333 | 0.433333 | 0.003333 | 0.550000 |
| 0.553333 | 0.023333 | 0.406667 | 0.016667 |
| 0.260000 | 0.000000 | 0.630000 | 0.110000 |
| 0.000000 | 0.996667 | 0.003333 | 0.000000 |
| 0.000000 | 0.956667 | 0.043333 | 0.000000 |
| 1.000000 | 0.000000 | 0.000000 | 0.000000 |
| 0.940000 | 0.053333 | 0.006667 | 0.000000 |
| 0.000000 | 0.000000 | 0.000000 | 1.000000 |
| 0.063333 | 0.683333 | 0.183333 | 0.070000 |