

表 1 不同的工具比较植物蛋白的亚细胞位置预测精度

Table 1 Comparison of prediction accuracies of plant protein subcellular locations by different tools

| | 总阳性 Total positives | 总阴性 Total negatives | TargetP | | | WoLF PSORT | | | MultiLoc2 | | |
|-------------------------|------------------------|------------------------|---------|--------|---------|------------|--------|---------|-----------|--------|---------|
| | | | Sn (%) | Sp (%) | MCC (%) | Sn (%) | Sp (%) | MCC (%) | Sn (%) | Sp (%) | MCC (%) |
| 分泌物 Secreted | 263 | 6645 | 76.8 | 98.7 | 72.3 | 43.7 | 99.6 | 58.0 | 51.3 | 98.6 | 53.7 |
| 线粒体 Mitochondrial | 402 | 6506 | 61.4 | 77.5 | 21.1 | 33.3 | 96.2 | 30.4 | 60.9 | 84.2 | 27.3 |
| 叶绿体 Chloroplast | 4918 | 1990 | 28.2 | 90.7 | 20.4 | 28.2 | 83.9 | 12.7 | 19.2 | 98.6 | 23.2 |
| 内质网 ER | 87 | 6821 | - | - | - | 9.2 | 99.9 | 24.5 | 29.9 | 98.4 | 23.0 |
| 细胞质 Cytosol | 23 | 6885 | - | - | - | 52.2 | 65.6 | 2.2 | 95.7 | 51.5 | 5.4 |
| 高尔基体 Golgi Apparatus | 54 | 6854 | - | - | - | 0.0 | 99.9 | -0.2 | 24.1 | 98.5 | 15.5 |
| 过氧化物酶体 Peroxisome | 52 | 6856 | - | - | - | 15.4 | 99.3 | 14.3 | 42.3 | 98.1 | 23.9 |
| 细胞核 Nucleus | 788 | 6120 | - | - | - | 80.3 | 78.1 | 41.1 | 26.8 | 93.3 | 22.4 |
| 质膜 Plasma Membrane | 14 | 6894 | - | - | - | 21.4 | 97.9 | 6.1 | 7.1 | 99.4 | 3.9 |
| 液泡 Vacuole | 121 | 6787 | - | - | - | 14.0 | 99.5 | 21.2 | 5.0 | 99.8 | 11.6 |

注: Sn: 敏感性; Sp: 特异性; MCC: 马修斯相关系数

Note: Sn: Sensitivity; Sp: Specificity; MCC: Mathews' correlation coefficient