**Additional file 4**

**Table S4** Selection of optimal features that created the diagnostic panel based on three algorithms.

|  |  |  |
| --- | --- | --- |
| **Algorithms** | **HC-model** | **HCC-model** |
| LASSO | WFA  GSL-II  PHA-E  PNA  AAL  LEL  BS-I  ConA  DSA  NPA  MAL-I  GNA  BPL  PHA-E+L  SNA | HHL  SJA  LTL  DSA  VVA  ACA |
| SVM-RFE | MAL-I  NPA  SJA  BS-I  AAL  GNA  DBA  ConA | BPL  HHL  DBA  ACA  AAL |
| Boruta | PHA-E+L  MAL-I  BS-I  NPA  BPL  AAL  WGA | HHL  PHA-E  SJA  PNA  AAL  WGA  LTL  BS-I  DSA  VVA  ACA |