Supplementary Table S1 **Optimal feature sets by different FS techniques**

|  |  |  |
| --- | --- | --- |
| **FS Technique** | **Optimal Feature set** | **Count** |
| HcS | F8\_13,F8\_27,F8\_14,F7\_13,F7\_32,F8\_3, F11\_3,F7\_45,F9\_2,F7\_36,F7\_8,F8\_7,F8\_24,F4,F8\_15,F8\_43,F8\_1,F8\_25,  F7\_33,F7\_7,F8\_6,F8\_16,F7\_6,F7\_39,F8\_42,F7\_41,F8\_29,F7\_43,F7\_1,F7\_20,F7\_22,F11,F7\_21,F8\_11,F8\_37,F7\_17,  F7\_26,F7\_34,F8\_31,F7\_31,F7\_14,F7\_11,F7\_27,F8\_8,F7\_42,F7\_19,F8\_23,F7\_30,F7\_38,F7\_23,F5\_2,F8\_38,F7\_28,  F7\_44,F8\_32,F7\_9,F7\_29,F8\_21,F7\_3,F7\_25,F11\_7 | 50 |
| FwS | F8\_47,F8\_4,F7\_22,F8\_9,F1,F8\_48,F8\_18,F8\_17,F8\_31,F9\_3,F8\_2,F8\_28,F7\_27,F8\_26,F8\_46,F8\_40,F8\_44,F7\_24,  F8\_39,F7\_18,F8\_30,F9\_9,F8\_41,F2,F8\_45,F9\_1,F5\_1,F11\_7,F7\_26,F3,F8\_33,F7\_43,F7\_42,F10,F9\_6,F7\_23,F7\_25,F8\_36,  F7\_40,F7\_17,F7\_29,F7\_28 | 41 |
| BwS | F9\_5, F1,F9\_4,F8\_35,,F7\_11,F11\_13,F7\_2,F8\_49,F7\_14,F7\_13,F7\_4,F4,F7\_38,F7\_24,F7\_12,F7\_37,F7\_15,F7\_10,  F7\_5,F8\_5,F6\_1,F2,F3,F8\_19,F7\_8,F8\_34,F7\_16,F7\_33, F7\_40,F7\_1,F8\_12,F7\_39,F7\_30,F7\_32,F7\_35,F7\_19,F9\_7,  F4F7\_34,F7\_41,F7\_18,F7\_21,F6\_2,F8\_10,F8\_20,F7\_31,F8\_22 | 47 |