Supplemental Table 2 Selection of the optimal cluster number

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| Cluster number (K) | Calinski-  Harabasz | Silhouette index |
| 2 | 250.1869 | 0.3148 |
| 3 | 214.1375 | 0.2520 |
| 4 | 178.1196 | 0.2107 |
| 5 | 149.2907 | 0.1862 |
| 6 | 141.5434 | 0.2045 |
| 7 | 130.7541 | 0.1919 |
| 8 | 117.9310 | 0.1815 |