**Table, Supplemental Digital Content 3: Interferon signature and Interferon scores.** Expression values (relative quantification) of IFN-I-stimulated genes and Interferon scores values calculated for each sample of Normal skin, Cutaneous Lupus Erytematosus, Blastic plasmacytoid dendritic cell neoplasm and Leukemia cutis analyzed.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Case** | ***RSAD2*** | ***SIGLEC1*** | ***IFIT1*** | ***MX1*** | ***IFI27*** | ***ISG15*** | **IFN-score***(RSAD2-SIGLEC1-IFIT1-IFI27-ISG15)* |
| NS 1 | 5.547 | 2.294 | 15.805 | 25.393 | 3.773 | 0.000 | 5.483800 |
| NS 4 | 0.093 | 0.024 | 0.591 | 0.257 | 0.05 | 5.244 | 1.200400 |
| NS 5 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000000 |
| NS 6 | 7.098 | 1.681 | 8.751 | 8.576 | 6.751 | 0.000 | 4.856200 |
| NS 7 | 0.37 | 0.205 | 1.467 | 2.728 | 0.652 | 0.000 | 0.538800 |
| NS 8 | 0.135 | 0.027 | 0.698 | 1.207 | 0.164 | 3.206 | 0.846000 |
| NS 9 | 0.198 | 0.093 | 0.975 | 0.772 | 0.095 | 0.000 | 0.272200 |
| NS 10 | 0.049 | 0.025 | 0.354 | 0.499 | 0.062 | 0.000 | 0.098000 |
| NS 11 | 0.000 | 0.406 | 10.818 | 11.669 | 2.484 | 0.000 | 2.741600 |
| NS 12 | 0.025 | 0.014 | 0.191 | 0.269 | 0.023 | 3.203 | 0.691200 |
| **NS average** | **1.4515** | **0.5769** | **4.065** | **5.237** | **1.5054** | **1.2653** |  |
| CLE 2 | 11.430 | 2.991 | 71.929 | 63.293 | 8.585 | 520.617 | 123.110400 |
| CLE 3 | 40.754 | 4.008 | 186.005 | 221.616 | 18.280 | 1223.251 | 294.459600 |
| CLE 4 | 183.249 | 7.024 | 281.55 | 356.699 | 26.652 | 567.043 | 213.103600 |
| CLE 5 | 107.478 | 2.756 | 184.878 | 218.26 | 34.637 | 311.864 | 128.322600 |
| CLE 7 | 15.001 | 0.538 | 35.781 | 118.01 | 5.342 | 1055.107 | 222.353800 |
| CLE 9 | 19.658 | 2.028 | 70.041 | 158.484 | 10.303 | 443.134 | 109.032800 |
| CLE 17 | 6.943 | 0.507 | 15.13 | 70.424 | 5.313 | 278.939 | 61.366400 |
| CLE 19 | 33.325 | 4.556 | 56.098 | 172.194 | 10.367 | 92.819 | 39.433000 |
| CLE 20 | 20.332 | 0.591 | 30.761 | 74.856 | 1.417 | 31.047 | 16.829600 |
| CLE 25 | 6.994 | 0.331 | 18.017 | 36.379 | 1.767 | 50.077 | 15.437200 |
| CLE 28 | 9.490 | 0.113 | 9.313 | 16.321 | 1.135 | 586.497 | 121.309600 |
| **CLE average** | **41.3321818** | **2.313** | **87.2275455** | **136.957818** | **11.2543636** | **469.126818** |  |
| BP-SK 1 | 0.000 | 3.494 | 0.000 | 355.851 | 15.925 | 289.905 | 61.864800 |
| BP-SK 3 | 0.000 | 1.283 | 0.000 | 87.545 | 2.639 | 48.483 | 10.481000 |
| BP-SK 8 | 0.000 | 19.581 | 0.000 | 165.194 | 11.223 | 0.000 | 6.160800 |
| BP-SK 12 | 2.154 | 0.957 | 1.642 | 35.75 | 1.849 | 161.197 | 33.559800 |
| BP-SK 15 | 0.029 | 0.019 | 0.071 | 2.368 | 0.040 | 0.778 | 0.187400 |
| BP-SK 19 | 0.032 | 0.010 | 0.051 | 1.963 | 0.037 | 4.833 | 0.992600 |
| BP-SK 26 | 0.452 | 0.157 | 0.68 | 3.232 | 0.215 | 1.349 | 0.570600 |
| BP-SK 30 | 0.027 | 0.017 | 0.056 | 2.460 | 0.033 | 5.920 | 1.210600 |
| BP-SK 31 | 0.155 | 0.116 | 0.807 | 2.655 | 0.215 | 7.853 | 1.829200 |
| **BPDCN average** | **0.2849** | **4.3745** | **0.3307** | **86.5676** | **7.5374** | **87.3931** |  |
| LC 1 | 1.744 | 0.583 | 2.346 | 7.559 | 0.169 | 0.000 | 0.968400 |
| LC 3 | 72.95 | 17.691 | 0.000 | 0.000 | 13.069 | 0.000 | 20.742000 |
| LC 5 | 0.000 | 8.153 | 48.255 | 51.596 | 8.044 | 0.000 | 12.890400 |
| LC 8 | 0.000 | 0.000 | 0.000 | 1.332 | 0.101 | 60.920 | 12.204200 |
| LC 9 | 0.943 | 8.627 | 4.96 | 11.991 | 0.663 | 0.000 | 3.038600 |
| LC 10 | 0.000 | 6.934 | 0.000 | 25.775 | 4.023 | 0.000 | 2.191400 |
| LC 14 | 0.000 | 0.326 | 1.627 | 4.415 | 0.273 | 55.092 | 11.463600 |
| LC 15 | 0.000 | 14.52 | 0.000 | 62.468 | 16.887 | 0.000 | 6.281400 |
| LC 18 | 1.429 | 0.531 | 1.79 | 2.815 | 0.219 | 0.000 | 0.793800 |
| LC 19 | 2.695 | 0.472 | 3.028 | 5.966 | 0.333 | 0.000 | 1.305600 |
| **LC average** | **7.9761** | **5.7837** | **6.2006** | **17.3917** | **4.3781** | **11.6012** |  |

*Legend:NS normal skin; CLE, Cutaneous Lupus Erythematosus; BP-SK, Skin localization of Blastic plasmacytoid dendritic cell neoplasm; LC, Leukemia Cutis.*