**Supplementary Table 1 |** Mean percentage contribution of clusters 1-10 after *K*-means clustering of skin tissue FTIR images (n=3).

|  |  |  |
| --- | --- | --- |
|   |   | **% contribution of clusters after *K*-means with 10 classes**  *mean ± SEM* |
|   |   |
| **Cluster number** | **Cluster 1** | **Cluster 2** | **Cluster 3** | **Cluster 4** | **Cluster 5** |
| ***Lum+/+* (WT)** | 0.61 ± 0.31 | 20.12 ± 2.45 | 1.28 ±0.67 | 5.38 ± 5.28 | 29.73 ± 4.27 |
| ***Lum-/-* (KO)** | 3.11 ± 3.10 | 5.46 ± 1.22 | 9.03 ± 2.48 | 8.60 ± 4.43 | 18.17 ± 4.70 |
| **Cluster number** | **Cluster 6** | **Cluster 7** | **Cluster 8** | **Cluster 9** | **Cluster 10** |
| ***Lum+/+* (WT)** | 12.02 ± 4.98 | 3.24 ± 1.54 | 6.35 ± 5.20 | 6.33 ± 3.00 | 14.94 ± 1.06 |
| ***Lum-/-* (KO)** | 9.53 ± 2.16 | 1.12 ± 0.26 | 0.65 ± 0.28 | 33.67 ± 3.71 | 10.67 ± 0.52 |