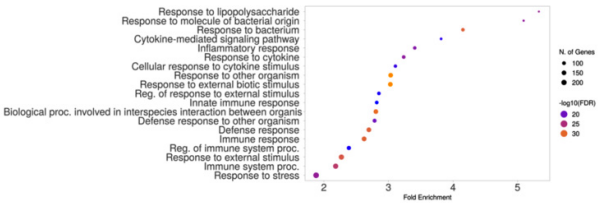
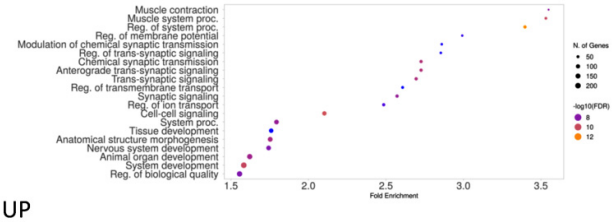
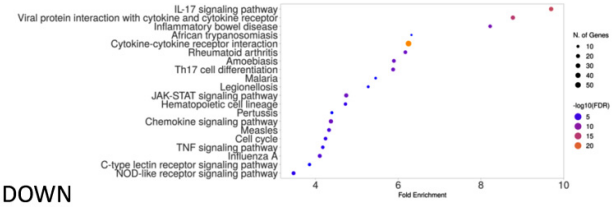
GO UP



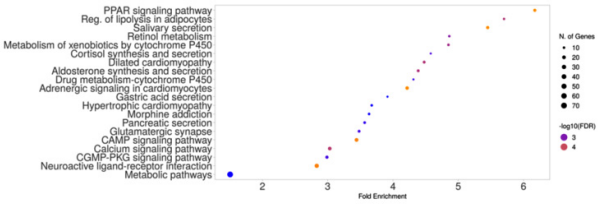
GO DOWN



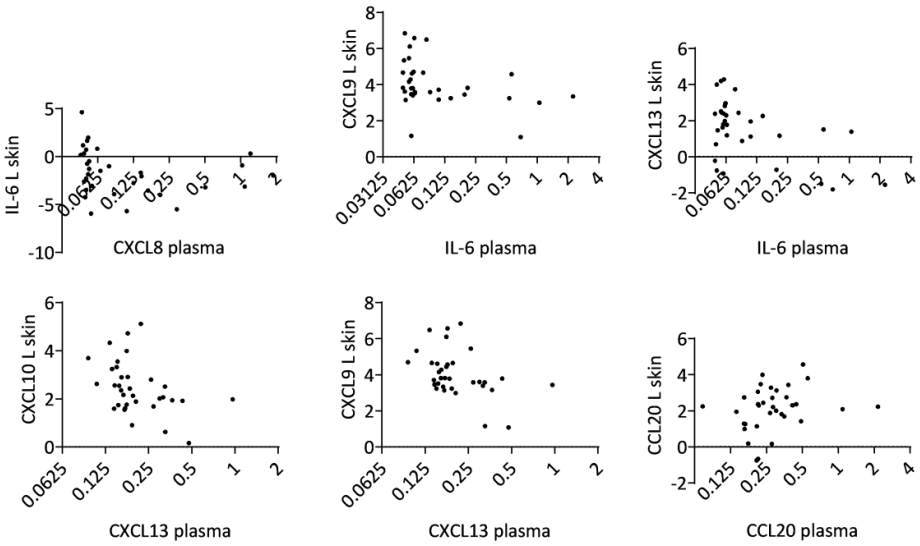
KEGG UP



KEGG DOWN



Supplementary Figure S1. Upregulated and downregulated DEGs were analyzed separately, selected by FDR, and sorted by fold enrichment.



Supplementary Figure S2. Significant correlations of immune-related hubs between skin and plasma

Supplementary Table 1. Confusion matrices of each Tree predicted model

Figure 4	**Predicted: Responder**	**Predicted: Non-Responder**
Actual: Responder	True Positive (TP)=4	False Negative (FN)=1
Actual: Non-Responder	False Positive (FP)=0	True Negative (TN)=3
Accuracy: 87.5%; Sensitivity: 80%; Specificity: 80%; Precision: 100%		

Figure 5	**Predicted: Responder**	**Predicted: Non-Responder**
Actual: Responder	True Positive (TP)=3	False Negative (FN)=1
Actual: Non-Responder	False Positive (FP)=0	True Negative (TN)=7
Accuracy: 90%; Sensitivity:75%; Specificity: 100%; Precision: 100%		

Figure 7C	**Predicted: Responder**	**Predicted: Non-Responder**
Actual: Responder	True Positive (TP)=5	False Negative (FN)=0
Actual: Non-Responder	False Positive (FP)=0	True Negative (TN)=3
Accuracy: 100%; Sensitivity:100%; Specificity: 100%; Precision: 100%		

Figure 7D	**Predicted: Responder**	**Predicted: Non-Responder**
Actual: Responder	True Positive (TP)=4	False Negative (FN)=0
Actual: Non-Responder	False Positive (FP)=1	True Negative (TN)=6
Accuracy: 90%; Sensitivity:100%; Specificity: 85%; Precision: 80%		