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Fig. S1. Obtainment of tape strips from a patient with psoriasis. a) Application of pressure to a tape strip with the pressure applicator. b) Removal of a tape strip with a sterile tweezer. c) After tape stripping, lesional sample sites appear without the superficial cell layers of the epidermis.

The patient has given written informed consent to publication of case details.

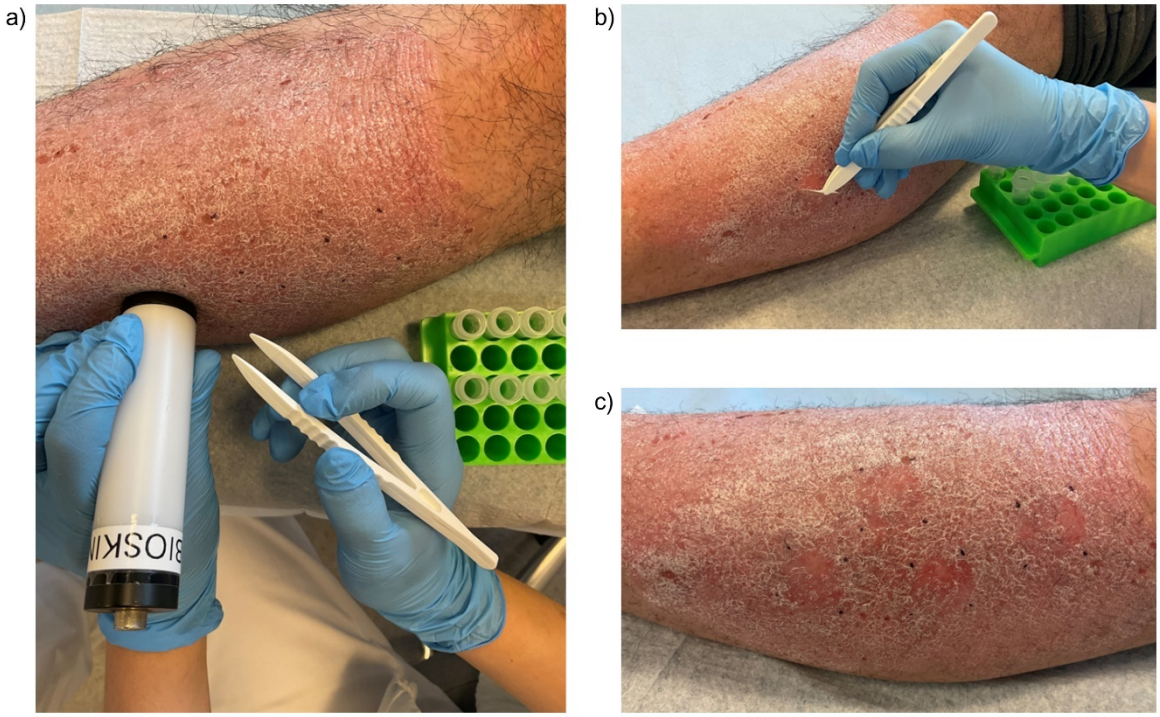
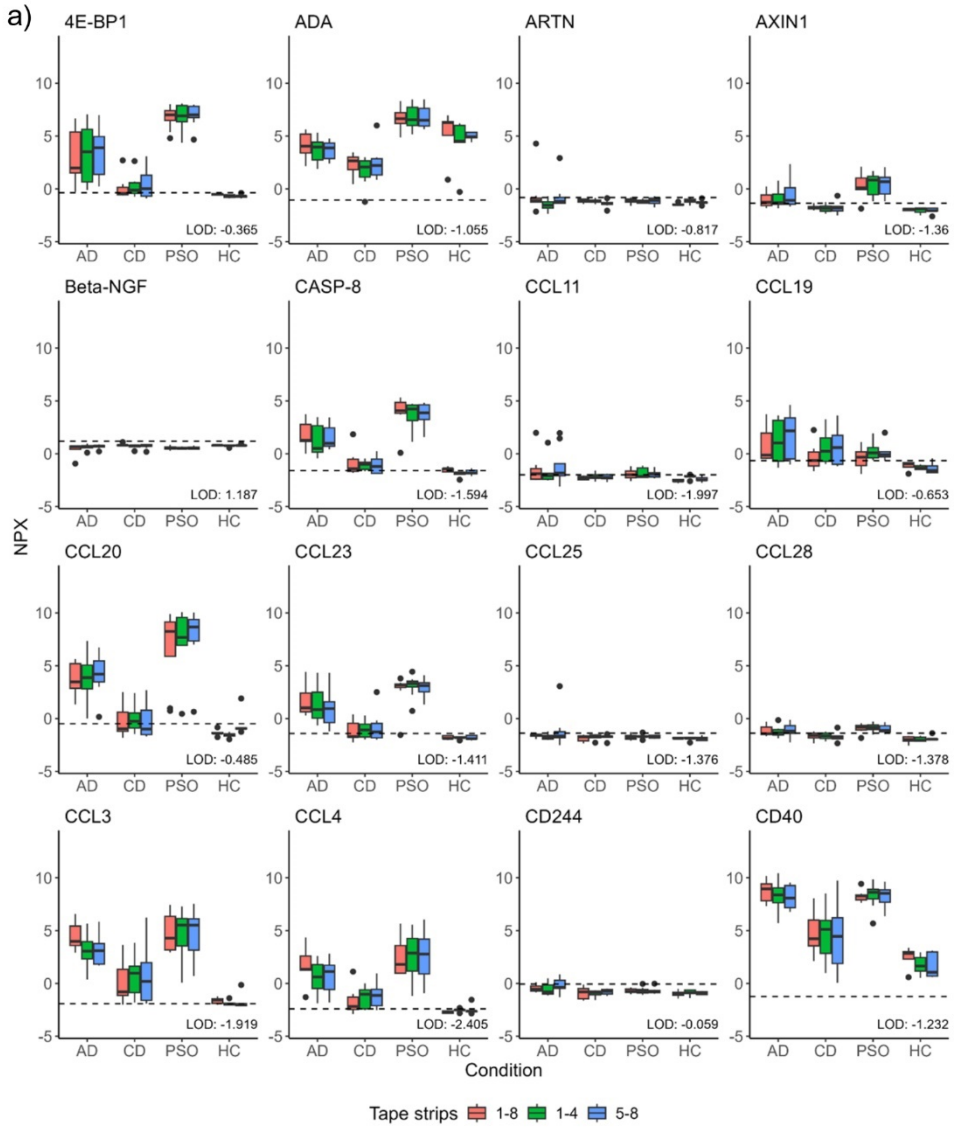
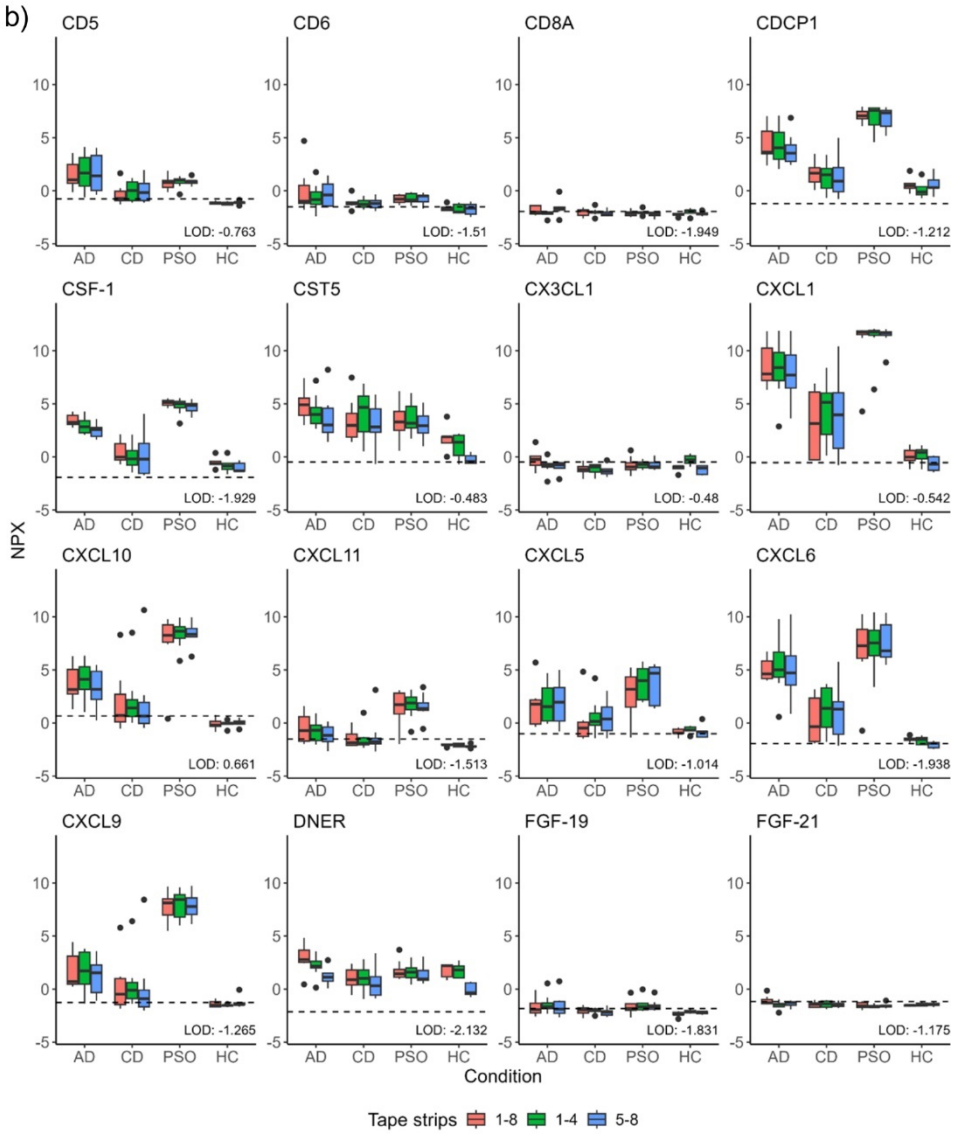
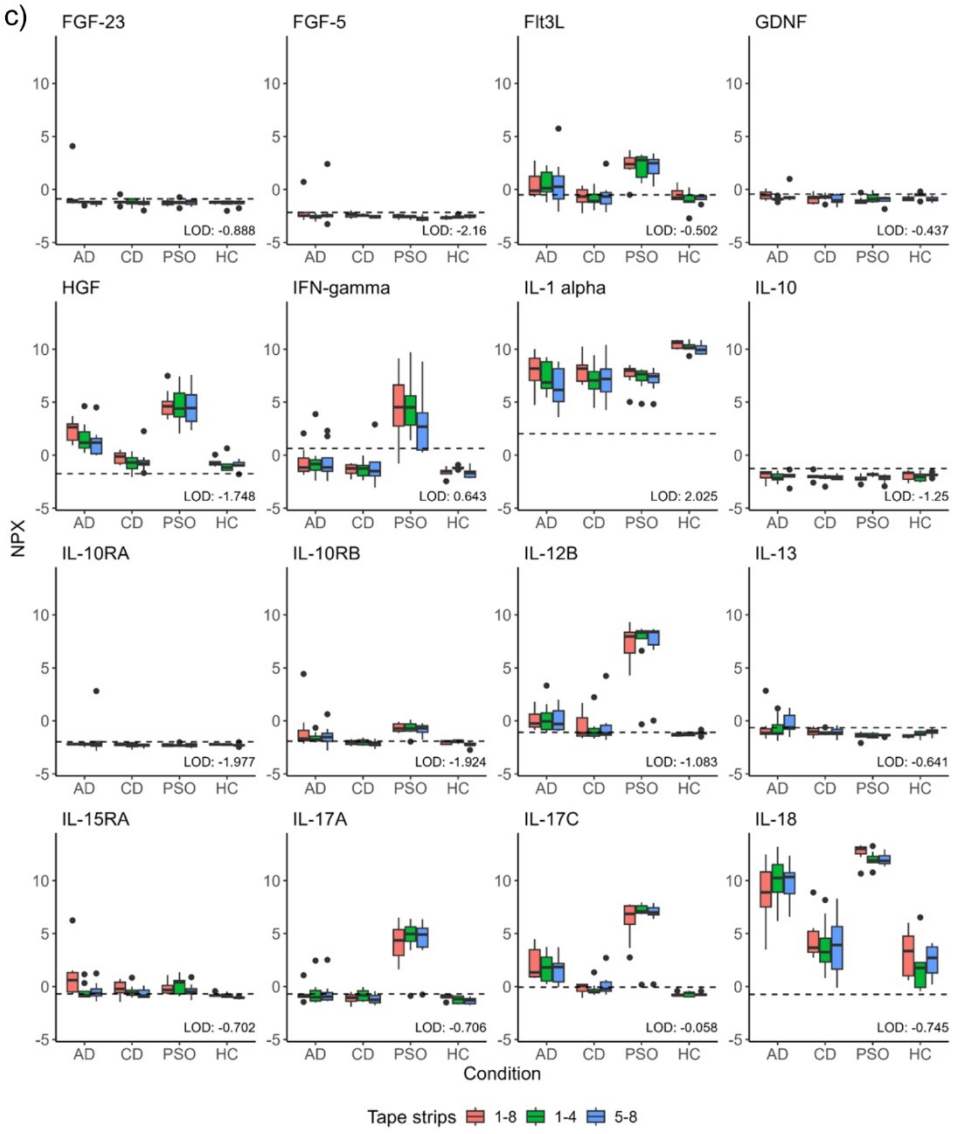


Fig. S2. a-f) Boxplots of relative protein concentrations for all proteins from the Olink® Target Inflammation panel. Boxplots depicts Normalized Protein eXpression (NPX) for samples from patients with atopic dermatitis (AD, n=8), contact dermatitis (CD, n=8), and psoriasis (n=8) and healthy controls (HC, n=5). For each group, relative protein concentrations (NPX) from tape strips number 1-8, 1-4 and 5-8, respectively, are presented. The dotted line depicts the limit of detection (LOD).

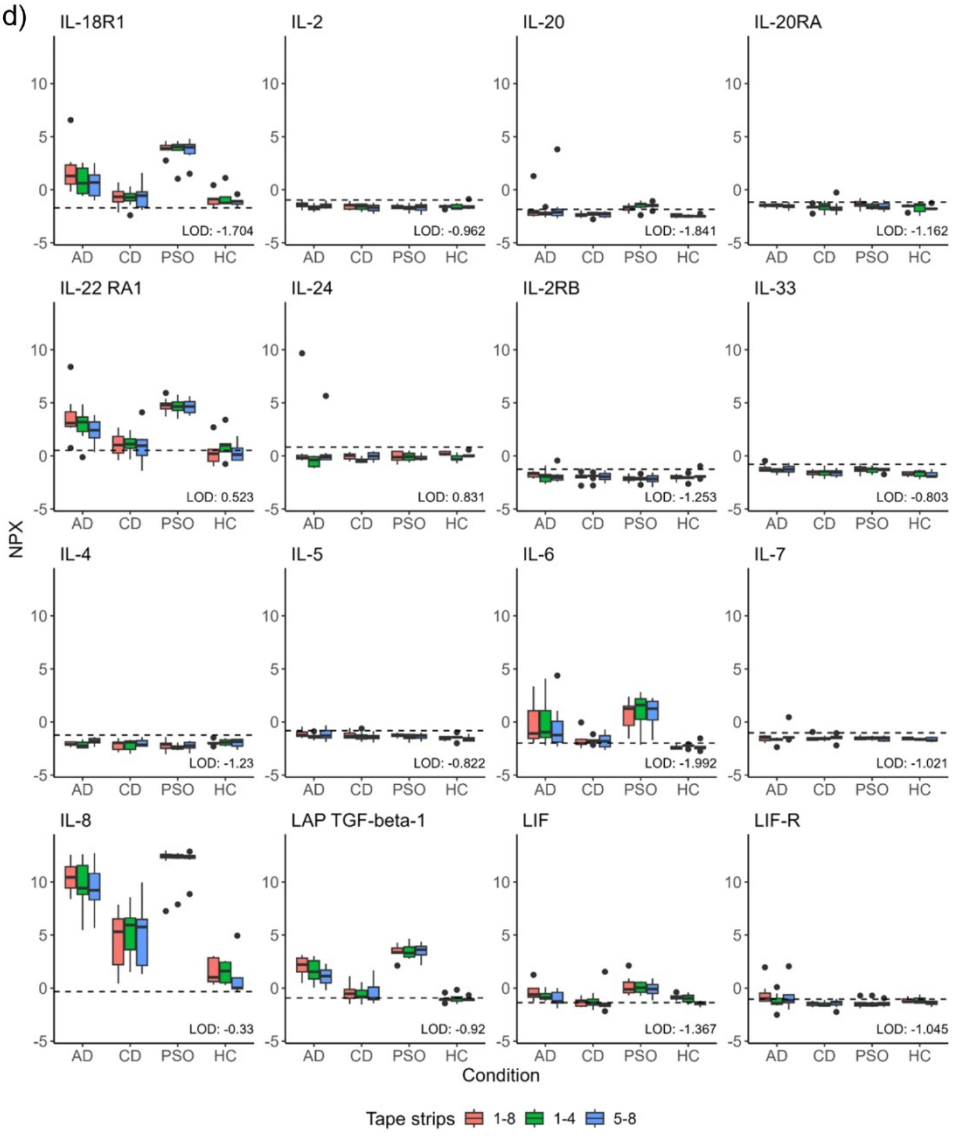


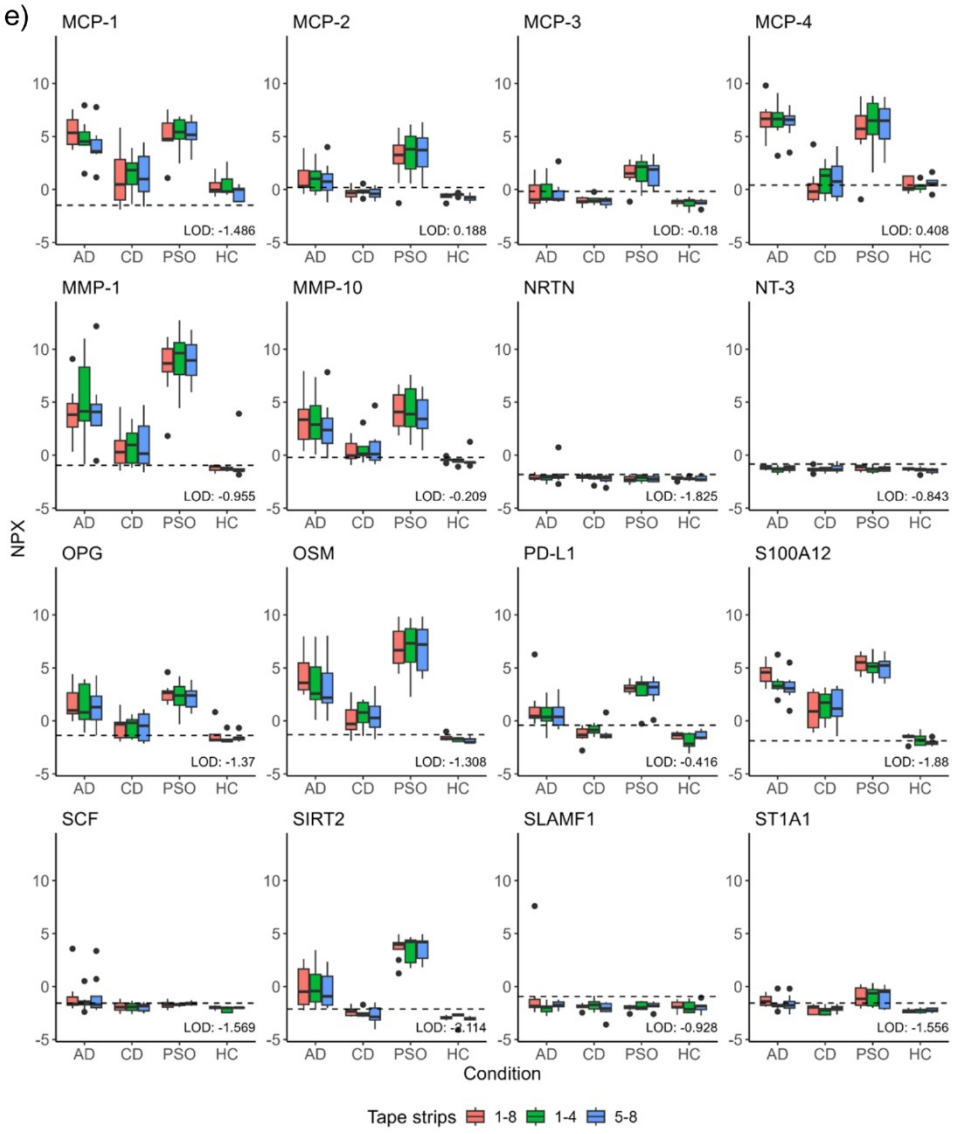

b)
CD5
CD6
CD8A
CDCP1
CSF-1
CST5
CX3CL1
CXCL1
CXCL10
CXCL11
CXCL5
CXCL6
CXCL9
DNER
FGF-19
FGF-21
LOD: -0.763
LOD: -1.51
LOD: -1.949
LOD: -1.212
LOD: -1.929
LOD: -0.483
LOD: -0.48
LOD: -0.542
LOD: 0.661
LOD: -1.513
LOD: -1.014
LOD: -1.938
LOD: -1.265
LOD: -2.132
LOD: -1.831
LOD: -1.175
AD
CD
PSO
HC
NPX
Condition
Tape strips
1-8
1-4
5-8

c)


FGF-23
FGF-5
Flt3L
GDNF
HGF
IFN-gamma
IL-1 alpha
IL-10
IL-10RA
IL-10RB
IL-12B
IL-13
IL-15RA
IL-17A
IL-17C
IL-18
LOD: -0.888
LOD: -2.16
LOD: -0.502
LOD: -0.437
LOD: -1.748
LOD: 0.643
LOD: 2.025
LOD: -1.25
LOD: -1.977
LOD: -1.924
LOD: -1.083
LOD: -0.641
LOD: -0.702
LOD: -0.706
LOD: -0.058
LOD: -0.745
AD
CD
PSO
HC
NPX
Condition
Tape strips
1-8
1-4
5-8

d)


IL-18R1
IL-2
IL-20
IL-20RA
IL-22 RA1
IL-24
IL-2RB
IL-33
IL-4
IL-5
IL-6
IL-7
IL-8
LAP TGF-beta-1
LIF
LIF-R
LOD: -1.704
LOD: -0.962
LOD: -1.841
LOD: -1.162
LOD: 0.523
LOD: 0.831
LOD: -1.253
LOD: -0.803
LOD: -1.23
LOD: -0.822
LOD: -1.992
LOD: -1.021
LOD: -0.33
LOD: -0.92
LOD: -1.367
LOD: -1.045
AD
CD
PSO
HC
NPX
Condition
Tape strips
1-8
1-4
5-8


e)
MCP-1
MCP-2
MCP-3
MCP-4
MMP-1
MMP-10
NRTN
NT-3
OPG
OSM
PD-L1
S100A12
SCF
SIRT2
SLAMF1
ST1A1
LOD: -1.486
LOD: 0.188
LOD: -0.18
LOD: 0.408
LOD: -0.955
LOD: -0.209
LOD: -1.825
LOD: -0.843
LOD: -1.37
LOD: -1.308
LOD: -0.416
LOD: -1.88
LOD: -1.569
LOD: -2.114
LOD: -0.928
LOD: -1.556
AD
CD
PSO
HC
NPX
Condition
Tape strips
1-8
1-4
5-8

f)

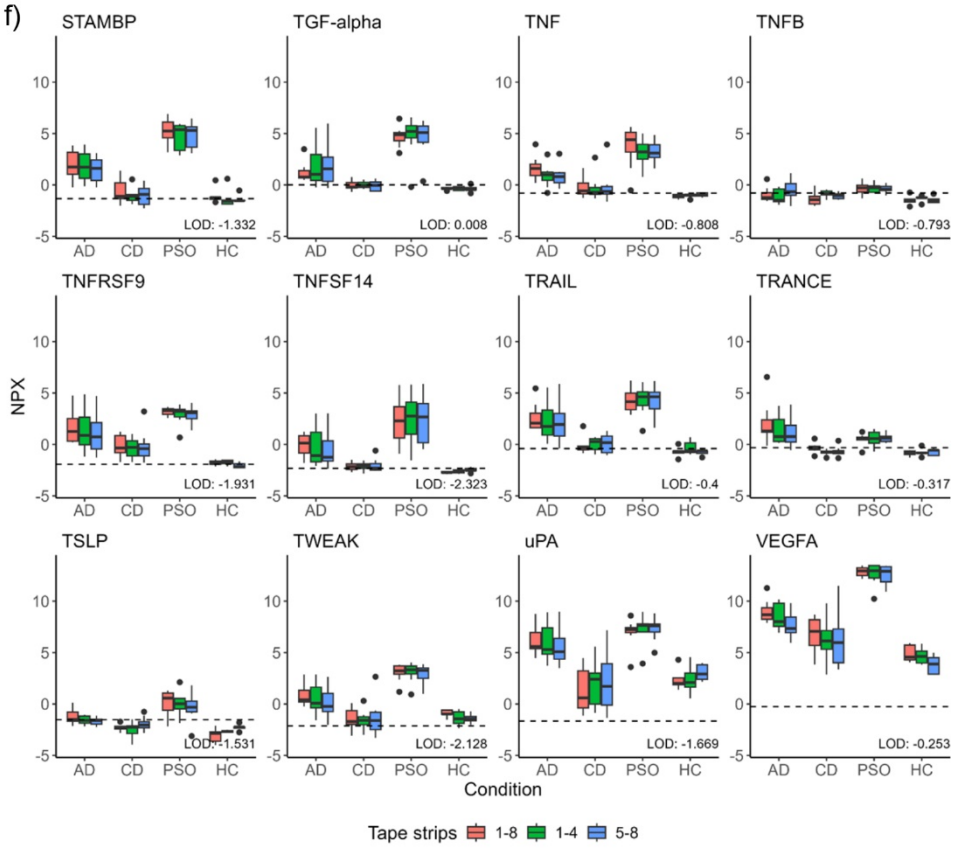

STAMBP
TGF-alpha
TNF
TNFB
TNFRSF9
TNFSF14
TRAIL
TRANCE
TSLP
TWEAK
uPA
VEGFA
LOD: -1.332
LOD: 0.008
LOD: -0.808
LOD: -0.793
LOD: -1.931
LOD: -2.323
LOD: -0.4
LOD: -0.317
LOD: -1.531
LOD: -2.128
LOD: -1.669
LOD: -0.253
AD
CD
PSO
HC
NPX
Condition
Tape strips
1-8
1-4
5-8

Fig. S3. Venn diagram of differentially expressed proteins in disease groups compared to healthy controls. Differentially expressed proteins in tape strips from patients with atopic dermatitis (AD, n=8), contact dermatitis (CD, n=8), and psoriasis (PSO, n=8) compared to healthy controls (n=5). Upregulated proteins are red, downregulated blue. For description of differentially expressed proteins, please refer to Table SVIII.

