

## SUPPLEMENTARY TABLES

**Supplementary Table 1.** Skin viability post-stripping represented by levels of LDH and RES

		24 h	48 h	72 h
<b>LDH (%)</b>	<b>Control</b>	100 ± 17.96	100 ± 5.25	100 ± 12.67
	<b>TS</b>	148.87 ± 18.54	114.85 ± 1.09	106.39 ± 11.61
<b>RES (%)</b>	<b>Control</b>	100 ± 15.32	100 ± 10.84	100 ± 12.24
	<b>TS</b>	78.32 ± 6.48	96.28 ± 1.65	99.79 ± 10.71

TS: Tape stripped skin; values are presented as mean % ± standard deviation with respect to Control 0 hours values (n=4).

**Supplementary Table 2.** Post-stripping levels of cytokines interleukins IL-6, IL-8, TNF- $\alpha$ 

		<b>24 h</b>	<b>48 h</b>	<b>72 h</b>
<b>TNF-<math>\alpha</math></b> <b>(pg/ml)</b>	<b>Control</b>	108.68 $\pm$ 4.9	112.96 $\pm$ 11.56	121.69 $\pm$ 24.07
	<b>TS</b>	147.67 $\pm$ 18.61	125.24 $\pm$ 14.68	104.46 $\pm$ 33.27
<b>IL-8 (pg/ml)</b>	<b>Control</b>	1086.29 $\pm$ 233.99	1228.04 $\pm$ 267.98	1111.93 $\pm$ 199.73
	<b>TS</b>	1461.3 $\pm$ 215.72	1208.8 $\pm$ 270.92	1123.1 $\pm$ 48.44
<b>IL-6 (pg/ml)</b>	<b>Control</b>	796.4 $\pm$ 376.5	678 $\pm$ 277.65	813.44 $\pm$ 202.98
	<b>TS</b>	1196.12 $\pm$ 307.29	820.54 $\pm$ 117.89	772.22 $\pm$ 144.64

TS: Tape stripped skin; values are presented as mean %  $\pm$  standard deviation with respect to Control 0 hours values (n=6).

**Supplementary Table 3.** Percentage of *M. furfur* growth and levels of IL-6, IL-8 and TNF- $\alpha$  in skin explants in Control (non-stripped) vs TS (tape stripped) skin explants with or without *M. furfur* inoculation

24h after <i>M. furfur</i> inoculation	Control		TS	
	No inoculation	<i>M. furfur</i> inoculation	No inoculation	<i>M. furfur</i> inoculation
<i>M. furfur</i> (% growth)	-	61.24 $\pm$ 43.89	-	204.35 $\pm$ 48.99
TNF- $\alpha$ (pg/ml)	110.76 $\pm$ 1.33	188.62 $\pm$ 43.89	136.06 $\pm$ 6.27	186.03 $\pm$ 27.79
IL-8 (pg/ml)	944.14 $\pm$ 134.73	1324.79 $\pm$ 140.16	865.83 $\pm$ 20.07	1139.32 $\pm$ 87.56
IL-6 (pg/ml)	758.28 $\pm$ 35.70	1108.34 $\pm$ 134.73	723.26 $\pm$ 79.65	1169.75 $\pm$ 304.82

Values are presented as mean %  $\pm$  standard deviation (n=6).

**Supplementary Table 4.** Reproducibility of *M. furfur* colony counts in SEBD model

	<b>CFUs</b>	<b>log10</b>	<b>% Variability from daily mean</b>	<b>% Variability from overall mean</b>
Day 1	8.20E+05	5.91	95.69	91.97
	1.38E+06	6.14	99.35	95.49
	1.74E+06	6.24	100.98	97.05
	2.60E+06	6.41	103.80	99.77
Day 2	5.80E+06	6.76	100.65	105.19
	5.90E+06	6.77	100.76	105.30
	5.60E+06	6.75	100.42	104.95
	3.90E+06	6.59	98.08	102.50
Day 3	1.85E+06	6.27	99.64	97.47
	3.29E+06	6.52	103.61	101.36
	1.42E+06	6.15	97.81	95.68
	1.65E+06	6.22	98.85	96.69
Day 4	3.06E+06	6.49	99.47	100.87
	2.72E+06	6.43	98.69	100.07
	3.68E+06	6.57	100.70	102.11
	4.01E+06	6.60	101.28	102.69