

Transcriptomics_Homework-2_Charlee-Cobb_cac9995

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Part 1: Answer the following questions. (20 pts)

1. Why is it important to know the variance and standard error of a statistic for sample data? How do we calculate these values in R? Understanding variance in data is important because it shows the difference a given point has from the mean. This would show if our data had many points that are outliers or how spread out our data is. Standard error compares the mean of a sample to the mean of the population, and the value helps us decide how representative a sample is for the population. To calculate the standard error in R by getting the value of standard deviation with the function `sd()`, and dividing that value by the square root of the number of samples. To get variance in R, we can use the `var()` function on the sample dataset.

2. What are the differences between the varieties of two-sample t-tests, and how can we tell which to use and how do we tell R how to apply the correct test using `t.test()`? Paired t-test and unpaired t-tests are the varieties of two-sample t-tests. Paired t-tests look at two samples that are related to each other. For example, in the paired t-test we might compare two different observations of one cancer tumor in different from different time points, pretreatment and after treatment. With Unpaired t-tests, the two samples are completely independent from each other. In R, you use the `t.test()` function, and set the flag 'paired' to TRUE for a paired t-test, and FALSE for an unpaired t-test.

3. What is the R function for a nonparametric equivalent to a two-sample t-test? The wilcoxon test using the `wilcox_test()` function.

4. What statistic is more appropriate when you want to identify interactions between multiple factors? ANOVA statistics are better to use when checking interactions between multiple factors.

5. When is the `lm()` function more appropriate to use than `aov()` function to perform an anova analysis? `aov()` looks at variation within groups and variation between groups without respect to each other. `lm()` looks for the slope made in the data, and looks at each slope separately.

Part 2: We will be working with a publicly available dataset: GSE63741. The experiment compares expression of a set of genes during different skin diseases. Our goal is to identify the genes that are significantly different from the control (healthy) samples. (80pts)

1. Write a function `getPvalue` that performs a linear model `lm()` to compare the control samples to the different skin diseases. (40pts) - The function should have two inputs 1: numerical vector of all values for one gene, 2: a factor that specifies which column belongs to which group. - The function should have one output (a vector of p-values for each disease coefficient.

#getPvalue fuction

```
getPvalue <- function(vect, fact){  
  gene <- unlist(vect, use.names = FALSE)  
  p <- lm(gene ~ fact)$coefficients  
  return(p)  
}
```

2. Use the `getPvalue` function in a loop or apply function to retrieve the pvalues for each gene. (10pts)

```
#load data sets
```

```
GSE63741 <- read.delim("GSE63741_series_matrix.txt")
```

```
sample <- read.delim("sampletype.txt")
```

```
## Warning in read.table(file = file, header = header, sep = sep, quote = quote, :  
## incomplete final line found by readTableHeader on 'sampletype.txt'
```

```
#head(GSE63741) #< used to check object
```

```
#head(sample) #< used to check object
```

```
#make factor of groups
```

```
group_names <- unlist(sample[1,], use.names = FALSE)
```

```
#group_names #< used to check object
```

```
group_factor <- factor(group_names)
```

```
group_factor #< used to check object
```

```
## [1] Control Control Control  
## [4] Control Control Control  
## [7] Control Control Control  
## [10] Control Control Control  
## [13] Control Control Control  
## [16] Control Control Control  
## [19] Control Control Control  
## [22] Control Control Control  
## [25] Control Control Control  
## [28] Control Control Control  
## [31] Atopic Dermatitis Atopic Dermatitis Atopic Dermatitis  
## [34] Atopic Dermatitis Atopic Dermatitis Atopic Dermatitis  
## [37] Atopic Dermatitis Atopic Dermatitis Atopic Dermatitis  
## [40] Atopic Dermatitis Atopic Dermatitis Atopic Dermatitis  
## [43] Atopic Dermatitis Atopic Dermatitis Atopic Dermatitis  
## [46] Atopic Dermatitis Atopic Dermatitis Atopic Dermatitis  
## [49] Atopic Dermatitis Atopic Dermatitis Atopic Dermatitis  
## [52] Atopic Dermatitis Atopic Dermatitis Atopic Dermatitis  
## [55] Atopic Dermatitis Atopic Dermatitis Atopic Dermatitis  
## [58] Atopic Dermatitis Atopic Dermatitis Atopic Dermatitis  
## [61] Lichen Planus Lichen Planus Lichen Planus  
## [64] Lichen Planus Lichen Planus Lichen Planus  
## [67] Lichen Planus Lichen Planus Lichen Planus  
## [70] Lichen Planus Lichen Planus Lichen Planus  
## [73] Lichen Planus Lichen Planus Lichen Planus  
## [76] Lichen Planus Lichen Planus Lichen Planus  
## [79] Lichen Planus Lichen Planus Lichen Planus  
## [82] Lichen Planus Lichen Planus Lichen Planus  
## [85] Lichen Planus Lichen Planus Lichen Planus  
## [88] Lichen Planus Lichen Planus Lichen Planus  
## [91] Psoriasis Vulgaris Psoriasis Vulgaris Psoriasis Vulgaris  
## [94] Psoriasis Vulgaris Psoriasis Vulgaris Psoriasis Vulgaris  
## [97] Psoriasis Vulgaris Psoriasis Vulgaris Psoriasis Vulgaris  
## [100] Psoriasis Vulgaris Psoriasis Vulgaris Psoriasis Vulgaris
```

```
## [103] Psoriasis Vulgaris Psoriasis Vulgaris Psoriasis Vulgaris
## [106] Psoriasis Vulgaris Psoriasis Vulgaris Psoriasis Vulgaris
## [109] Psoriasis Vulgaris Psoriasis Vulgaris Psoriasis Vulgaris
## [112] Psoriasis Vulgaris Psoriasis Vulgaris Psoriasis Vulgaris
## [115] Psoriasis Vulgaris Psoriasis Vulgaris Psoriasis Vulgaris
## [118] Psoriasis Vulgaris Psoriasis Vulgaris Psoriasis Vulgaris
## [121] Contact Eczema      Contact Eczema      Contact Eczema
## [124] Contact Eczema      Contact Eczema      Contact Eczema
## [127] Contact Eczema      Contact Eczema      Contact Eczema
## [130] Contact Eczema      Contact Eczema      Contact Eczema
## [133] Contact Eczema      Contact Eczema      Contact Eczema
## [136] Contact Eczema      Contact Eczema      Contact Eczema
## [139] Contact Eczema      Contact Eczema      Contact Eczema
## [142] Contact Eczema      Contact Eczema      Contact Eczema
## [145] Contact Eczema      Contact Eczema      Contact Eczema
## [148] Contact Eczema      Contact Eczema      Contact Eczema
## 5 Levels: Atopic Dermatitis Contact Eczema Control ... Psoriasis Vulgaris
```

```
#making a test run to help model the function
testing <- lm(unlist(GSE63741[1, 2:151], use.names = FALSE) ~ group_factor)$coefficients

#I tried to use the function I wrote above, but kept running into bugs when I
#ran this:
#res <- apply(GSE63741, 1, getPvalue(vect = GSE63741[2:151], fact=group_factor) )

#So I wrote the function in-line with the apply function
res <- apply(GSE63741, 1, function(x) lm(x[2:151]~group_factor)$coefficients)
head(res)
```

```
##                [,1]      [,2]      [,3]      [,4]
## (Intercept)      0.07443333 0.15570333 0.01610000 -0.02622333
## group_factorContact Eczema 0.53112667 0.32194333 0.26126667 0.49596667
## group_factorControl -0.31633000 -0.02461000 0.17079667 0.07442000
## group_factorLichen Planus -0.35241667 0.30736667 0.03656667 -0.31132000
## group_factorPsoriasis Vulgaris 0.40213667 0.09777333 -0.09789667 0.70829667
##                [,5]      [,6]      [,7]
## (Intercept)      0.15833667 -0.0003066667 -0.04087333
## group_factorContact Eczema 0.62541000 0.4096633333 0.42737000
## group_factorControl 0.08209333 -0.1241533333 0.21642333
## group_factorLichen Planus -0.00884000 0.3232033333 0.53841000
## group_factorPsoriasis Vulgaris -0.32073000 0.0627633333 -0.44756667
##                [,8]      [,9]      [,10]     [,11]
## (Intercept)      0.35504667 -0.07490667 -0.03669667 0.0895200
## group_factorContact Eczema -0.29271667 -0.26554333 -0.03889000 -0.4903433
## group_factorControl 0.14833000 0.05488667 0.02372000 0.2073833
## group_factorLichen Planus -0.06053667 -0.07433667 0.11744667 -0.1631267
## group_factorPsoriasis Vulgaris -0.36303333 -0.10817333 0.22375000 -0.3416600
##                [,12]     [,13]     [,14]     [,15]
## (Intercept)      0.2418800 -0.31199667 0.04077667 0.43421333
## group_factorContact Eczema 0.2999800 -0.04057333 0.12129667 -0.00828000
## group_factorControl -0.2788700 0.11935333 -0.01644667 -0.32246333
## group_factorLichen Planus 0.1326567 -0.04540333 0.16804000 -0.04010667
## group_factorPsoriasis Vulgaris 0.3534767 0.91890667 -0.15240000 -0.43751000
```

##		[,16]	[,17]	[,18]	[,19]
## (Intercept)		0.18101667	0.4178700	0.3812933	0.09925333
## group_factorContact Eczema		0.04620333	-0.2279667	0.2875367	0.12169667
## group_factorControl		0.09316000	-0.3286300	-0.5140433	0.27733333
## group_factorLichen Planus		-0.08688333	-0.3066433	0.3595800	-0.24714333
## group_factorPsoriasis Vulgaris		-0.37179333	-0.3651867	-0.2783700	-0.39792333
##		[,20]	[,21]	[,22]	[,23]
## (Intercept)		0.002693333	0.3142533	-0.42635000	-0.07332667
## group_factorContact Eczema		0.130813333	0.6885033	0.20807667	0.01076333
## group_factorControl		-0.041053333	-0.3891933	-0.05574667	0.30908000
## group_factorLichen Planus		0.137963333	0.5798200	0.06329667	0.04389667
## group_factorPsoriasis Vulgaris		-0.241746667	-0.5175467	1.03468000	-0.13008333
##		[,24]	[,25]	[,26]	[,27]
## (Intercept)		0.1777633	0.22197667	0.4791867	0.188533333
## group_factorContact Eczema		-0.1564967	-0.03088667	-0.0882000	-0.006006667
## group_factorControl		0.1460200	-0.01753667	-0.2274633	0.043596667
## group_factorLichen Planus		-0.2812133	-0.22768667	-0.2383167	-0.136603333
## group_factorPsoriasis Vulgaris		0.1420633	-0.22179000	-0.1045133	-0.332440000
##		[,28]	[,29]	[,30]	[,31]
## (Intercept)		1.0760333	0.36952000	0.35372333	-0.22846333
## group_factorContact Eczema		0.6027400	0.27493667	-0.02950667	0.31707000
## group_factorControl		-0.8238867	-0.14360000	-0.28027667	0.24115667
## group_factorLichen Planus		-0.2582733	0.01602333	-0.21856667	0.25379667
## group_factorPsoriasis Vulgaris		-0.2850200	-0.25564000	-0.48079667	-0.01070667
##		[,32]	[,33]	[,34]	[,35]
## (Intercept)		0.05283000	0.26658333	0.70133000	-0.35161333
## group_factorContact Eczema		-0.11776000	-0.16662667	-0.07071667	0.19840000
## group_factorControl		-0.03517333	-0.03468667	-0.81427333	0.04116667
## group_factorLichen Planus		-0.07646000	-0.34748333	-0.34975667	-0.01011333
## group_factorPsoriasis Vulgaris		0.05433667	-0.19874667	0.02828000	0.66081000
##		[,36]	[,37]	[,38]	[,39]
## (Intercept)		-0.2202700	0.6503133	0.097986667	0.3501733
## group_factorContact Eczema		0.2429633	0.3897900	0.228510000	0.1475433
## group_factorControl		1.1909733	-0.4706200	-0.201173333	-0.4762200
## group_factorLichen Planus		0.3205267	0.3444600	-0.005943333	-0.2683300
## group_factorPsoriasis Vulgaris		-0.6598900	-0.4799700	-0.013240000	0.8323300
##		[,40]	[,41]	[,42]	[,43]
## (Intercept)		-0.04122333	-0.21896333	-0.16468000	0.18086667
## group_factorContact Eczema		-0.21886333	-0.21266333	-0.17482667	0.02711667
## group_factorControl		-0.01959333	0.01037667	0.12063667	-0.20462333
## group_factorLichen Planus		-0.27463667	-0.18860667	-0.01830667	-0.05974000
## group_factorPsoriasis Vulgaris		0.00016000	-0.26353333	0.71546333	-0.03506000
##		[,44]	[,45]	[,46]	
## (Intercept)		0.62953000	0.09856667	0.240910000	
## group_factorContact Eczema		0.02785667	0.15506333	-0.013640000	
## group_factorControl		-0.39957667	0.10214667	-0.156970000	
## group_factorLichen Planus		-0.21841667	-0.04739667	0.009046667	
## group_factorPsoriasis Vulgaris		0.13213000	-0.25597333	0.157733333	
##		[,47]	[,48]	[,49]	[,50]
## (Intercept)		0.038503333	0.06108667	0.43623333	0.2917200
## group_factorContact Eczema		-0.257406667	-0.02045667	-0.16421333	0.2903967
## group_factorControl		-0.007153333	-0.23722667	-0.39039000	-0.5454200
## group_factorLichen Planus		0.079580000	-0.07218333	-0.20165333	-0.2193633
## group_factorPsoriasis Vulgaris		0.278596667	-0.04425333	0.07331333	0.3250100

##		[,51]	[,52]	[,53]	[,54]
## (Intercept)		-0.21707667	0.295203333	0.3436467	-0.002260000
## group_factorContact Eczema		-0.14515000	0.387026667	-0.1655000	-0.005186667
## group_factorControl		0.42481333	-0.504423333	-0.1619000	0.088750000
## group_factorLichen Planus		-0.02940333	0.238443333	-0.1534800	0.051756667
## group_factorPsoriasis Vulgaris		-0.47091333	0.004933333	-0.1957667	-0.059833333
##		[,55]	[,56]	[,57]	[,58]
## (Intercept)		0.1297500	-0.222756667	-0.0611900	0.4092600
## group_factorContact Eczema		0.0698400	0.103930000	0.2101067	-0.3565500
## group_factorControl		-0.0869900	-0.052910000	0.1285967	-0.1723400
## group_factorLichen Planus		-0.2062633	-0.003726667	0.3272133	-0.2294867
## group_factorPsoriasis Vulgaris		-0.2557300	0.687643333	0.2442067	-0.3513567
##		[,59]	[,60]	[,61]	[,62]
## (Intercept)		0.10041667	0.21395000	-0.10453000	0.0199900
## group_factorContact Eczema		0.43833667	0.16510000	0.26152000	0.3877767
## group_factorControl		-0.08905667	-0.20285333	-0.08544000	-0.1807633
## group_factorLichen Planus		0.41770333	0.12698667	0.33157333	0.2821667
## group_factorPsoriasis Vulgaris		0.10482667	0.04805333	0.09550333	0.6230267
##		[,63]	[,64]	[,65]	[,66]
## (Intercept)		0.27696667	0.6386267	0.0448600	0.43044667
## group_factorContact Eczema		0.10735333	1.8172767	0.1082767	0.27374000
## group_factorControl		-0.18565333	-0.8753833	-0.1454167	-0.43122333
## group_factorLichen Planus		-0.10464000	1.2982667	0.2937167	0.03338333
## group_factorPsoriasis Vulgaris		-0.01594333	-0.4082233	0.2550867	0.28128333
##		[,67]	[,68]	[,69]	
## (Intercept)		-0.106493333	-0.0269600000	-0.01416000	
## group_factorContact Eczema		-0.045103333	-0.0003366667	0.15381333	
## group_factorControl		0.208653333	-0.0375866667	-0.09609000	
## group_factorLichen Planus		-0.001216667	0.0944600000	-0.03515667	
## group_factorPsoriasis Vulgaris		-0.130630000	0.4546566667	-0.13294333	
##		[,70]	[,71]	[,72]	[,73]
## (Intercept)		0.007083333	0.2914633	0.1193867	0.114060000
## group_factorContact Eczema		0.083276667	-0.4929767	0.7036600	0.590700000
## group_factorControl		-0.080113333	-0.1813867	-0.2929300	-0.366963333
## group_factorLichen Planus		-0.029210000	-0.1193633	0.3242567	0.289653333
## group_factorPsoriasis Vulgaris		-0.038970000	0.2245200	0.1911533	0.004833333
##		[,74]	[,75]	[,76]	[,77]
## (Intercept)		0.09684000	0.09542333	0.7259133	0.2591733
## group_factorContact Eczema		-0.25200333	0.28280667	-0.1569733	0.1583233
## group_factorControl		-0.35715333	-0.30246333	-0.5372733	-0.2515733
## group_factorLichen Planus		-0.07372333	0.08009667	-0.4968500	-0.0497800
## group_factorPsoriasis Vulgaris		0.86291000	0.27855000	-0.4756433	-0.1888700
##		[,78]	[,79]	[,80]	[,81]
## (Intercept)		0.3184700	-0.01836667	0.04659333	0.2283933
## group_factorContact Eczema		0.1296800	-0.04580333	0.08577333	0.1685433
## group_factorControl		-0.4549567	0.12051333	0.02646667	-0.3137433
## group_factorLichen Planus		-0.3044933	-0.08044333	0.30415667	0.3997133
## group_factorPsoriasis Vulgaris		0.2116300	0.23448667	0.21322333	-0.3044567
##		[,82]	[,83]	[,84]	[,85]
## (Intercept)		0.12861000	0.1188133	0.12753667	0.06062667
## group_factorContact Eczema		0.06062333	0.4385400	-0.26362000	-0.09602667
## group_factorControl		-0.28746333	-0.2826567	-0.31813667	0.09788333
## group_factorLichen Planus		-0.17620667	-0.1626400	-0.03974333	-0.34128000
## group_factorPsoriasis Vulgaris		0.15788333	-0.4682833	0.80165000	-0.05167667

##		[,86]	[,87]	[,88]	[,89]
## (Intercept)		-0.3106967	0.3908767	-0.11130667	-0.4641400
## group_factorContact Eczema		-0.2167400	-0.2462500	-0.17567667	-0.1574167
## group_factorControl		0.5038733	-0.1659467	0.34486000	0.2490467
## group_factorLichen Planus		0.1862733	-0.4062900	0.08664333	-0.2020833
## group_factorPsoriasis Vulgaris		-0.2825200	-0.6501500	0.15115333	0.3070200
##		[,90]	[,91]	[,92]	[,93]
## (Intercept)		-0.4102767	-0.20812667	0.4089767	0.2268933
## group_factorContact Eczema		-0.3561100	0.37441667	0.2241267	-0.2091600
## group_factorControl		0.0015100	0.15931667	-0.0214800	-0.0864100
## group_factorLichen Planus		-0.0173600	0.02649333	-0.0840700	-0.1251167
## group_factorPsoriasis Vulgaris		0.2004033	0.02823000	-1.0994500	-0.2429867
##		[,94]	[,95]	[,96]	[,97]
## (Intercept)		0.8416267	-0.2027600	-0.15760667	-0.01940333
## group_factorContact Eczema		1.1555933	-0.1001100	0.06278667	-0.03635333
## group_factorControl		-0.8542000	0.2943000	-0.18849000	-0.00647000
## group_factorLichen Planus		0.7062633	-0.1049167	-0.15484667	-0.02647000
## group_factorPsoriasis Vulgaris		-1.0163400	0.3992500	-0.23374667	-0.18272000
##		[,98]	[,99]	[,100]	[,101]
## (Intercept)		0.2526400	-0.08881667	0.2365967	-0.082116667
## group_factorContact Eczema		0.1254533	0.85309333	0.2681267	-0.267603333
## group_factorControl		-0.3183633	0.06428667	-0.4110700	0.141703333
## group_factorLichen Planus		0.1266500	0.94598000	0.9042933	0.008596667
## group_factorPsoriasis Vulgaris		-0.4381333	0.34515333	0.0424000	-0.165813333
##		[,102]	[,103]	[,104]	[,105]
## (Intercept)		0.3483167	0.26062000	-0.23049000	-0.046330000
## group_factorContact Eczema		0.7981867	0.11457667	-0.02060667	0.404680000
## group_factorControl		-0.4097067	-0.08556333	0.06975333	-0.165080000
## group_factorLichen Planus		0.5798967	0.18328667	0.15888333	0.348766667
## group_factorPsoriasis Vulgaris		-0.2663333	-0.42957333	0.31875667	-0.003826667
##		[,106]	[,107]	[,108]	[,109]
## (Intercept)		0.26734000	0.03732667	0.2668800	-0.10974333
## group_factorContact Eczema		0.09349333	0.19695667	0.6315967	0.06766667
## group_factorControl		-0.18504333	-0.27113667	-0.3891633	0.11298667
## group_factorLichen Planus		-0.02232000	0.28033667	0.7385233	0.08092000
## group_factorPsoriasis Vulgaris		-0.31279000	0.19926667	-0.1892000	0.06536000
##		[,110]	[,111]	[,112]	[,113]
## (Intercept)		0.1250733	0.2846100	0.13509000	0.1603700
## group_factorContact Eczema		0.6454400	-0.2831233	0.13523000	0.1903067
## group_factorControl		-0.1237567	-0.4423867	-0.10950000	-0.0047600
## group_factorLichen Planus		0.8945467	-0.2910033	0.04481667	0.1732233
## group_factorPsoriasis Vulgaris		-0.1757567	1.3449567	-0.31765000	-0.2502400
##		[,114]	[,115]	[,116]	[,117]
## (Intercept)		-0.3851867	-0.40423667	-0.23590667	0.1917100
## group_factorContact Eczema		-0.2945200	0.00756000	0.47690333	-0.2604767
## group_factorControl		0.4823400	0.08960333	0.09894333	-0.3326567
## group_factorLichen Planus		0.1876433	0.28529000	0.23963000	-0.6971500
## group_factorPsoriasis Vulgaris		0.2098967	0.54777333	0.03585000	0.6589933
##		[,118]	[,119]	[,120]	[,121]
## (Intercept)		-0.05673333	0.9904333	0.03948667	-0.05060667
## group_factorContact Eczema		0.43277333	0.1693933	0.10363333	0.31051667
## group_factorControl		-0.10575000	-1.1640033	0.04600667	0.17010000
## group_factorLichen Planus		0.42561333	0.0057700	0.13654667	0.46503667
## group_factorPsoriasis Vulgaris		0.18091667	0.5267800	-0.18548667	-0.03834000

##		[,122]	[,123]	[,124]	[,125]
## (Intercept)		0.15878000	-0.06106667	-0.002006667	0.16801000
## group_factorContact Eczema		-0.07725333	0.09434000	0.160233333	-0.32240333
## group_factorControl		0.02714667	0.17287000	0.044996667	0.00597000
## group_factorLichen Planus		-0.04940333	0.13807333	0.136806667	0.04566333
## group_factorPsoriasis Vulgaris		-0.25022000	0.43161667	0.239730000	-0.21318667
##		[,126]	[,127]	[,128]	[,129]
## (Intercept)		0.2355233	0.159343333	0.05594667	0.05792333
## group_factorContact Eczema		-0.7967133	-0.1267600000	-0.30745000	0.35756000
## group_factorControl		-0.1221100	0.1211200000	0.02648000	0.05797667
## group_factorLichen Planus		-0.5441333	-0.0004933333	-0.09901667	0.23285333
## group_factorPsoriasis Vulgaris		-0.3491733	0.1612833333	0.18680333	-0.38102667
##		[,130]	[,131]	[,132]	[,133]
## (Intercept)		-0.03665000	-0.06169000	-0.01280667	0.5533000
## group_factorContact Eczema		-0.01823000	-0.02602667	0.13504333	-0.5139133
## group_factorControl		-0.13316000	0.09786667	-0.11306667	-0.9709000
## group_factorLichen Planus		-0.06973333	-0.09709667	-0.01854000	-0.2424800
## group_factorPsoriasis Vulgaris		0.28870000	-0.43076333	-0.08602000	-0.1024733
##		[,134]	[,135]	[,136]	[,137]
## (Intercept)		-0.05085000	0.06889333	0.3761500	-0.2672967
## group_factorContact Eczema		0.21980000	-0.37196000	-0.1962733	-0.4192900
## group_factorControl		0.07842333	-0.01464000	-0.5713400	0.1437400
## group_factorLichen Planus		0.14152333	-0.10498333	-0.1305400	-0.4406567
## group_factorPsoriasis Vulgaris		0.21647667	0.36809667	1.1391833	0.1731433
##		[,138]	[,139]	[,140]	[,141]
## (Intercept)		-0.0710600	-0.22155000	0.2496400	0.15477000
## group_factorContact Eczema		-0.4115667	0.34802333	0.1160200	0.03294333
## group_factorControl		-0.1786333	0.28752667	-0.1918833	0.11245333
## group_factorLichen Planus		-0.3227633	-0.03789667	-0.0333400	-0.31953333
## group_factorPsoriasis Vulgaris		1.0921733	-0.38530667	-0.1337800	-0.37494667
##		[,142]	[,143]	[,144]	[,145]
## (Intercept)		0.59098000	-0.13576000	-0.051990000	-0.25159333
## group_factorContact Eczema		-0.22000667	0.05726667	0.207403333	-0.13938333
## group_factorControl		-0.46340000	-0.13451667	-0.084990000	0.16535667
## group_factorLichen Planus		-0.02586333	-0.06851333	-0.009136667	0.05197667
## group_factorPsoriasis Vulgaris		-0.44818333	0.41723333	-0.042780000	0.14273000
##		[,146]	[,147]	[,148]	[,149]
## (Intercept)		-0.12998333	0.5312433	0.24588000	0.08916333
## group_factorContact Eczema		0.25108000	-0.1757267	-0.22358000	-0.01663667
## group_factorControl		0.02324333	-0.5090433	0.01452667	-0.20232000
## group_factorLichen Planus		0.34172000	-0.4119200	-0.24683667	-0.06063000
## group_factorPsoriasis Vulgaris		0.03794667	-0.1083933	-0.35594667	-0.07173000
##		[,150]	[,151]	[,152]	
## (Intercept)		0.15762000	0.14569000	0.02729333	
## group_factorContact Eczema		0.27008667	0.25806000	-0.20429000	
## group_factorControl		-0.32094333	0.01196667	0.06627000	
## group_factorLichen Planus		0.06685000	0.00828000	-0.14603000	
## group_factorPsoriasis Vulgaris		0.06984333	-0.20771333	-0.09466667	
##		[,153]	[,154]	[,155]	[,156]
## (Intercept)		0.1258900000	-0.08028667	0.02502667	-0.4940500
## group_factorContact Eczema		-0.1631500000	-0.00911000	0.13291667	-0.2550867
## group_factorControl		0.0592266667	0.09805000	0.27497000	0.6240233
## group_factorLichen Planus		-0.1978900000	-0.00122000	-0.05797000	0.6291800
## group_factorPsoriasis Vulgaris		-0.0005833333	-0.06396000	-0.02159000	0.3672767

##		[,157]	[,158]	[,159]	
## (Intercept)		0.15754000	-0.220290000	0.190423333	
## group_factorContact Eczema		-0.07721333	0.124350000	-0.378143333	
## group_factorControl		-0.19191000	0.195210000	0.007843333	
## group_factorLichen Planus		-0.08362667	-0.166813333	-0.175810000	
## group_factorPsoriasis Vulgaris		-0.35640000	0.001243333	-0.331863333	
##		[,160]	[,161]	[,162]	[,163]
## (Intercept)		0.15419333	-0.15823667	-1.33193667	-1.3381500
## group_factorContact Eczema		0.24856333	0.24672333	-0.04197333	0.2405600
## group_factorControl		0.06744333	0.19560333	1.28300000	1.3568967
## group_factorLichen Planus		0.45202667	0.06220667	0.42895667	0.4202667
## group_factorPsoriasis Vulgaris		-0.20401667	0.20598333	-0.20309000	-0.1603867
##		[,164]	[,165]	[,166]	[,167]
## (Intercept)		0.3635633	-0.17078000	0.4446033	0.2827700
## group_factorContact Eczema		0.1278533	0.01485000	0.3440367	0.1169967
## group_factorControl		-0.3079067	0.20964000	-0.3659733	0.0013400
## group_factorLichen Planus		0.4974833	0.03681333	0.4411400	-0.3889633
## group_factorPsoriasis Vulgaris		-0.5217933	-0.30570000	-0.4926800	-0.1909833
##		[,168]	[,169]	[,170]	[,171]
## (Intercept)		-0.30206667	0.28779333	-0.13864333	0.12303667
## group_factorContact Eczema		0.03526333	-0.09896000	0.84802333	0.34451667
## group_factorControl		0.15288667	0.04043333	0.13274333	-0.04562667
## group_factorLichen Planus		0.39313667	-0.18158000	0.60700000	0.29821667
## group_factorPsoriasis Vulgaris		0.26301333	-0.31602333	-0.09979333	-0.20285000
##		[,172]	[,173]	[,174]	[,175]
## (Intercept)		-0.09683000	0.4627533333	0.2842733	0.62286667
## group_factorContact Eczema		-0.23639333	-0.0008566667	0.2272533	0.22033333
## group_factorControl		0.02136667	-0.1306133333	-0.3205000	-0.12894333
## group_factorLichen Planus		0.14011667	-0.3098166667	0.5111600	-0.05682667
## group_factorPsoriasis Vulgaris		0.41807667	-0.2497700000	-0.1818500	-1.15774667
##		[,176]	[,177]	[,178]	[,179]
## (Intercept)		-0.20718333	0.3709467	0.08662000	-0.26825000
## group_factorContact Eczema		-0.15037667	-0.2640600	-0.04029667	0.02362000
## group_factorControl		0.05898000	-0.2542533	0.04055667	0.35213000
## group_factorLichen Planus		-0.08319333	-0.3214300	0.15142667	0.02119667
## group_factorPsoriasis Vulgaris		0.09352333	-0.4243767	-0.28163333	0.33895000
##		[,180]	[,181]	[,182]	[,183]
## (Intercept)		-0.4710467	0.4474600	0.6514200	0.12976667
## group_factorContact Eczema		-0.2059267	0.8653233	0.8086833	-0.03490333
## group_factorControl		0.4882833	-0.4193400	-0.7175900	0.01162667
## group_factorLichen Planus		-0.1576133	0.3665700	-0.4411367	-0.04528000
## group_factorPsoriasis Vulgaris		0.2260167	-0.2311133	0.7333800	-0.31135667
##		[,184]	[,185]	[,186]	[,187]
## (Intercept)		-0.34497000	-0.10044667	0.10690000	-0.3747333
## group_factorContact Eczema		-0.07622333	0.39891333	0.15746000	0.3459500
## group_factorControl		-0.10950000	-0.13603000	-0.15323000	0.1531500
## group_factorLichen Planus		-0.25037333	-0.04933333	-0.20813667	0.0329900
## group_factorPsoriasis Vulgaris		0.42518667	0.35063333	-0.06784667	0.4133000
##		[,188]	[,189]	[,190]	[,191]
## (Intercept)		0.7705600	-0.20426000	-0.2017967	-1.25525333
## group_factorContact Eczema		0.5986700	0.06363333	0.0288200	-0.10897667
## group_factorControl		-0.6836233	0.10158667	0.3290967	0.75837333
## group_factorLichen Planus		0.3586667	0.17572667	0.4887600	0.01395333
## group_factorPsoriasis Vulgaris		-0.4232333	0.34018333	-0.3688500	-0.54526333

##		[,192]	[,193]	[,194]	[,195]
## (Intercept)		0.2161033	-0.9306200	-0.25498333	-1.36220333
## group_factorContact Eczema		-0.2903567	0.1536833	-0.17164667	0.16406000
## group_factorControl		-0.1129400	0.9695300	0.28081000	1.16952667
## group_factorLichen Planus		-0.1736967	0.3119033	-0.18929000	0.44127667
## group_factorPsoriasis Vulgaris		-0.8216933	0.3130133	-0.06772333	0.09391667
##		[,196]	[,197]	[,198]	[,199]
## (Intercept)		0.2282933	0.04868667	-0.5471167	-0.45135333
## group_factorContact Eczema		-0.3200600	-0.09053333	-0.1571067	-0.34426000
## group_factorControl		0.1649400	-0.00361000	0.5877767	0.46120000
## group_factorLichen Planus		-0.1533433	-0.34183000	-0.3066200	0.09418333
## group_factorPsoriasis Vulgaris		-0.4924767	0.14150333	-0.3700367	-0.21466000
##		[,200]	[,201]	[,202]	[,203]
## (Intercept)		0.03321000	0.03482667	0.09350667	-0.05510333
## group_factorContact Eczema		0.10844000	0.04058667	-0.12612667	-0.36065667
## group_factorControl		-0.09218333	0.06433667	-0.21424333	0.30137333
## group_factorLichen Planus		0.30867333	-0.43828667	-0.21902333	-0.46983667
## group_factorPsoriasis Vulgaris		0.06164333	0.28061667	0.11254000	-0.35444667
##		[,204]	[,205]	[,206]	[,207]
## (Intercept)		0.3959267	-0.3624700	-0.58565333	0.4836733
## group_factorContact Eczema		0.4868467	-0.3516033	0.05061333	-0.2115467
## group_factorControl		-0.3940433	0.5303900	0.68957667	-0.5279767
## group_factorLichen Planus		0.2007833	-0.2794733	0.19035667	-0.1550000
## group_factorPsoriasis Vulgaris		-0.5156133	-0.3829600	-0.43095333	0.4095200
##		[,208]	[,209]	[,210]	[,211]
## (Intercept)		-0.2905667	-0.643580000	-0.05961333	0.2464800
## group_factorContact Eczema		-0.2306433	0.007646667	0.03366000	-0.3401633
## group_factorControl		0.5707933	0.400756667	0.16343333	-0.0351200
## group_factorLichen Planus		0.1563467	-0.769780000	-0.10194333	-1.1829500
## group_factorPsoriasis Vulgaris		0.1022767	-0.405076667	0.11958000	-0.6853000
##		[,212]	[,213]	[,214]	[,215]
## (Intercept)		-0.2389933	0.121580000	0.24561333	0.5491700
## group_factorContact Eczema		0.1673567	0.286896667	-0.35215667	0.1716867
## group_factorControl		0.4202833	-0.002033333	-0.09063333	-0.3309233
## group_factorLichen Planus		-0.2241133	0.059440000	-0.17275333	0.1034967
## group_factorPsoriasis Vulgaris		-0.1128367	-0.544440000	-0.21299000	-0.5358633
##		[,216]	[,217]	[,218]	[,219]
## (Intercept)		-0.27585333	0.02774000	0.3467633	0.7683500
## group_factorContact Eczema		-0.10399000	0.10039000	0.3656733	0.9525600
## group_factorControl		0.50576667	-0.17081667	-0.3303300	-0.7889633
## group_factorLichen Planus		-0.03669333	-0.02088667	0.2761533	0.7997433
## group_factorPsoriasis Vulgaris		-0.15053000	0.19016667	-0.2140567	-0.4637133
##		[,220]	[,221]	[,222]	[,223]
## (Intercept)		-0.10913333	0.26975	-0.33195000	0.0468400
## group_factorContact Eczema		0.14745667	0.43488	-0.08435667	0.1267967
## group_factorControl		0.06247667	-0.18278	0.26222000	-0.1057867
## group_factorLichen Planus		0.02538333	0.48270	-0.10880333	0.0920800
## group_factorPsoriasis Vulgaris		0.77924667	-0.09641	-0.05010000	0.1920300
##		[,224]	[,225]	[,226]	[,227]
## (Intercept)		-0.0781800	0.6122467	0.22859667	0.30682667
## group_factorContact Eczema		-0.2442667	-0.1956767	0.27564333	-0.34145000
## group_factorControl		0.0891100	-0.3272267	-0.39049667	-0.05635333
## group_factorLichen Planus		0.3187200	-0.5694733	0.06523667	0.84684333
## group_factorPsoriasis Vulgaris		-0.4920700	-0.2928500	0.60266667	0.50756333

##		[,228]	[,229]	[,230]	[,231]
## (Intercept)		0.05731000	-0.01765667	-0.02973333	-0.05214333
## group_factorContact Eczema		0.16159333	0.35706000	-0.17275667	0.35577667
## group_factorControl		-0.05716667	0.08984000	0.22387333	-0.10410000
## group_factorLichen Planus		-0.12844667	0.00153000	-0.04129667	0.71722000
## group_factorPsoriasis Vulgaris		-0.18298667	-0.52235000	0.09936667	-0.10772333
##		[,232]	[,233]	[,234]	[,235]
## (Intercept)		-0.2665100	-0.068250000	0.2738933	0.04622000
## group_factorContact Eczema		0.2897467	-0.004506667	-0.3683033	0.15229000
## group_factorControl		0.4634367	0.129943333	-0.2942500	-0.08175000
## group_factorLichen Planus		0.1831233	0.040436667	-0.4074833	0.71902000
## group_factorPsoriasis Vulgaris		-0.1261267	-0.286360000	0.0993300	0.05614333
##		[,236]	[,237]	[,238]	[,239]
## (Intercept)		0.5622233	1.05251667	0.1577167	0.25332667
## group_factorContact Eczema		-0.7798533	0.19485333	0.0959800	-0.31255667
## group_factorControl		-0.2589433	-1.03339333	0.0915300	-0.12674667
## group_factorLichen Planus		0.4153967	0.08062333	0.3193933	0.04410333
## group_factorPsoriasis Vulgaris		0.1625267	-0.35159000	-0.0674400	-0.32077333
##		[,240]	[,241]	[,242]	[,243]
## (Intercept)		-0.12175667	-0.2391200	0.1077200	-0.08143667
## group_factorContact Eczema		-0.22502667	0.0249200	-0.1821933	0.14626333
## group_factorControl		-0.07188667	0.4780233	0.3149933	0.10218333
## group_factorLichen Planus		-0.26419333	0.1751733	0.7770600	0.05503333
## group_factorPsoriasis Vulgaris		-0.04427000	-0.3285767	0.6606000	-0.01399667
##		[,244]	[,245]	[,246]	[,247]
## (Intercept)		0.77339000	0.51650000	0.50710333	-0.14616000
## group_factorContact Eczema		0.12776667	-0.05673667	-0.40364333	-0.10631667
## group_factorControl		-0.44784333	-0.32660667	-0.32139667	0.39042667
## group_factorLichen Planus		-0.02353667	0.21819000	-0.07006667	0.28038000
## group_factorPsoriasis Vulgaris		-0.58304333	-0.33544000	-0.56875667	0.05693333
##		[,248]	[,249]	[,250]	[,251]
## (Intercept)		0.122683333	0.32351000	0.12517333	0.21260667
## group_factorContact Eczema		-0.008933333	-0.36172333	-0.22943667	0.08742000
## group_factorControl		-0.178416667	-0.36710333	-0.02984333	-0.09832000
## group_factorLichen Planus		0.174506667	0.08298667	-0.35724000	0.05064333
## group_factorPsoriasis Vulgaris		-0.340723333	0.41005667	-0.20254000	-0.21821667
##		[,252]	[,253]	[,254]	[,255]
## (Intercept)		-0.3371100	0.1707933	-0.11522667	-0.07645000
## group_factorContact Eczema		0.1497767	-0.0759700	0.17227667	-0.61750000
## group_factorControl		0.2204800	0.4108900	0.06577000	0.07014667
## group_factorLichen Planus		0.1887433	-0.2057533	0.19358333	-0.17693000
## group_factorPsoriasis Vulgaris		0.0266200	-0.7593300	-0.08848667	-0.17765667
##		[,256]	[,257]	[,258]	[,259]
## (Intercept)		0.2397833	-0.16685333	0.05462667	0.11322333
## group_factorContact Eczema		0.5657167	0.06063667	-0.03913000	-0.06485333
## group_factorControl		-0.1638700	0.30876000	0.15763333	0.00631000
## group_factorLichen Planus		0.3174133	0.55559333	-0.18548333	0.19181333
## group_factorPsoriasis Vulgaris		-0.2984833	0.30336667	0.19111333	-0.03843333
##		[,260]	[,261]	[,262]	[,263]
## (Intercept)		0.4723967	-0.020036667	-0.4475800	-0.08361667
## group_factorContact Eczema		0.9156733	-0.008556667	-0.5448967	0.23555000
## group_factorControl		-0.5705400	0.173560000	0.5505367	0.05454000
## group_factorLichen Planus		-0.2183433	0.214603333	-0.1078333	-0.61995667
## group_factorPsoriasis Vulgaris		-0.6117233	-0.309203333	-0.3379733	1.33034000

##		[,264]	[,265]	[,266]	[,267]
## (Intercept)		0.95067000	-0.09181333	0.4334533	0.2159233
## group_factorContact Eczema		0.10621667	0.05032667	-0.8238200	-0.1794000
## group_factorControl		-1.14978000	0.06679333	-0.4284367	-0.1841167
## group_factorLichen Planus		-0.04401333	-0.03520667	-0.2335633	0.1512400
## group_factorPsoriasis Vulgaris		-0.43556667	0.16745333	-0.6645333	-0.1811467
##		[,268]	[,269]	[,270]	[,271]
## (Intercept)		-0.162883333	-0.20259000	-0.282710000	-0.1114733
## group_factorContact Eczema		0.033906667	-0.01136000	-0.047680000	-0.1350500
## group_factorControl		0.232626667	0.19985000	0.098903333	0.1376833
## group_factorLichen Planus		0.349376667	-0.04968667	-0.050260000	0.1829900
## group_factorPsoriasis Vulgaris		0.005276667	0.12314667	0.007293333	0.0587500
##		[,272]	[,273]	[,274]	[,275]
## (Intercept)		0.14559000	-0.33074333	-0.3349467	-0.66773333
## group_factorContact Eczema		-0.05884000	-0.46048667	-0.1342000	-0.11201667
## group_factorControl		-0.07967333	0.17919333	0.2679533	0.67752667
## group_factorLichen Planus		-0.03018667	0.06769667	0.3549800	-0.02198333
## group_factorPsoriasis Vulgaris		-0.26408000	-0.22151667	0.4046400	-0.14861000
##		[,276]	[,277]	[,278]	[,279]
## (Intercept)		0.1052300	0.07009333	-0.01679333	0.2354433
## group_factorContact Eczema		-0.1171600	-0.23220667	0.15243333	0.7408233
## group_factorControl		-0.0391300	-0.11914667	0.07194333	-0.4644433
## group_factorLichen Planus		-0.2270767	-0.33927667	-0.03632333	0.5661900
## group_factorPsoriasis Vulgaris		-0.1403633	-0.30355000	0.38635667	0.2530567
##		[,280]	[,281]	[,282]	[,283]
## (Intercept)		0.006483333	-0.47777667	0.2000667	0.09627333
## group_factorContact Eczema		0.073606667	-0.07736333	0.1530300	-0.12424667
## group_factorControl		-0.169443333	0.57622333	-0.1960500	0.01918667
## group_factorLichen Planus		-0.061626667	0.31844667	0.0631000	-0.27253000
## group_factorPsoriasis Vulgaris		0.077686667	0.53875333	-0.3914767	0.38661667
##		[,284]	[,285]	[,286]	[,287]
## (Intercept)		-0.2190233	0.4643000	0.14756667	-0.69754000
## group_factorContact Eczema		0.1356300	-0.2453367	-0.08336667	-0.36362000
## group_factorControl		0.2250267	-0.1665200	-0.11532000	0.64101333
## group_factorLichen Planus		-0.3657167	-0.1930400	-0.04559333	0.43660000
## group_factorPsoriasis Vulgaris		-0.2053333	-0.4105667	-0.15652667	0.01531667
##		[,288]	[,289]	[,290]	[,291]
## (Intercept)		-1.1009233	-0.23048333	-0.1576000	0.16493667
## group_factorContact Eczema		-0.4773033	-0.72856000	-0.2758300	-0.27019667
## group_factorControl		1.3804367	0.27122000	0.1981067	0.03233667
## group_factorLichen Planus		0.1887533	0.34535667	0.2073533	-0.34067333
## group_factorPsoriasis Vulgaris		0.2720100	0.04193667	0.4399167	-0.44767333
##		[,292]	[,293]	[,294]	[,295]
## (Intercept)		-0.7070000	-0.2746900	-0.15508333	-0.2069133
## group_factorContact Eczema		-0.3714433	-0.4882733	0.10758667	-0.1347167
## group_factorControl		1.0349233	0.5454733	0.14898333	0.3168500
## group_factorLichen Planus		-0.0341700	0.5834333	-0.07101333	0.3652900
## group_factorPsoriasis Vulgaris		0.1156567	0.5822233	0.08340333	-0.0779600
##		[,296]	[,297]	[,298]	[,299]
## (Intercept)		-0.9085733	-0.15474333	0.1935400	-0.060776667
## group_factorContact Eczema		-0.6715467	-0.02083000	0.1962967	0.066183333
## group_factorControl		0.8850900	0.06113000	-0.1793567	0.117096667
## group_factorLichen Planus		0.2120367	0.05578333	-0.2203233	-0.012423333
## group_factorPsoriasis Vulgaris		-0.4668400	0.51349667	-0.3582867	0.003033333

##		[,300]	[,301]	[,302]	[,303]
## (Intercept)		1.543777	-0.23780333	0.4176400	-0.07083333
## group_factorContact Eczema		1.001417	0.16126000	-0.3600033	0.04735667
## group_factorControl		-1.651143	0.47784000	-0.2716033	0.04208000
## group_factorLichen Planus		-0.194930	0.04548000	-0.3168000	-0.05958000
## group_factorPsoriasis Vulgaris		-0.865940	-0.08765667	-0.4796267	-0.20696333
##		[,304]	[,305]	[,306]	[,307]
## (Intercept)		-0.6446200	0.5527500	-0.23072333	0.2695100
## group_factorContact Eczema		-0.8403000	0.2872933	0.07795333	0.7806600
## group_factorControl		0.8578000	-0.3443200	0.42886667	-0.3836800
## group_factorLichen Planus		0.7604633	-0.6601600	-0.07626333	1.3944000
## group_factorPsoriasis Vulgaris		0.9208200	-0.8322633	-0.23950333	-0.2935033
##		[,308]	[,309]	[,310]	[,311]
## (Intercept)		-0.003586667	-0.28063667	0.14452333	0.2717467
## group_factorContact Eczema		-0.042080000	0.18856667	0.09374000	-0.1128300
## group_factorControl		0.195730000	-0.04814333	-0.07659333	-0.1435833
## group_factorLichen Planus		-0.101870000	-0.16631667	-0.14104333	-0.1785367
## group_factorPsoriasis Vulgaris		0.137010000	0.32019000	-0.08973667	-0.3078033
##		[,312]	[,313]	[,314]	[,315]
## (Intercept)		-0.31524333	-0.9283067	-0.29188333	-0.3016600
## group_factorContact Eczema		-0.35333000	-0.3655833	-0.08001333	-0.5279867
## group_factorControl		0.24754667	0.9220767	0.52067000	0.3620933
## group_factorLichen Planus		0.11483667	0.2113100	0.16141333	0.1828700
## group_factorPsoriasis Vulgaris		0.06724667	0.2269133	-0.40849667	0.8359467
##		[,316]	[,317]	[,318]	[,319]
## (Intercept)		-0.2961000	-0.31451667	0.9638733	-0.4840000
## group_factorContact Eczema		-0.5315100	-0.05408667	0.1729567	-0.3713833
## group_factorControl		0.3884867	0.35134667	-0.9049167	0.7243467
## group_factorLichen Planus		0.1511200	-0.02234333	0.1889667	0.1436533
## group_factorPsoriasis Vulgaris		0.3363000	-0.04377333	-0.4829467	0.1325200
##		[,320]	[,321]	[,322]	[,323]
## (Intercept)		-0.07906667	-0.1916333	0.009753333	0.4884833
## group_factorContact Eczema		-0.64178000	0.0017700	0.349953333	-1.0767467
## group_factorControl		0.17422000	0.1749100	0.244030000	-0.2527667
## group_factorLichen Planus		0.06116667	0.1587233	0.078463333	0.5767867
## group_factorPsoriasis Vulgaris		0.13230000	-0.1746133	-0.034053333	0.0400500
##		[,324]	[,325]	[,326]	[,327]
## (Intercept)		0.01267333	0.104910000	0.1041033	0.5454967
## group_factorContact Eczema		-0.06302000	0.193406667	0.1886067	-0.3084733
## group_factorControl		0.01472667	-0.002403333	-0.3421867	-0.1359633
## group_factorLichen Planus		-0.02027000	0.113460000	-0.1758033	-0.9721167
## group_factorPsoriasis Vulgaris		-0.22972667	-0.503870000	-0.2106800	-0.7074100
##		[,328]	[,329]	[,330]	[,331]
## (Intercept)		0.2049733	0.08691667	0.25051333	-0.44940000
## group_factorContact Eczema		-0.5885333	-0.26785000	0.07109333	-0.12924000
## group_factorControl		-0.5986900	-0.00163000	-0.10673333	0.85599000
## group_factorLichen Planus		0.1739433	-0.19141333	-0.16457000	0.34726333
## group_factorPsoriasis Vulgaris		1.9297867	-0.16210000	-0.06597667	-0.05696667
##		[,332]	[,333]	[,334]	[,335]
## (Intercept)		-0.09879667	-0.09891667	0.18063667	0.1468333
## group_factorContact Eczema		-0.24435000	-0.02751000	-0.05747667	0.1491233
## group_factorControl		0.20870667	0.15591000	-0.02491333	-0.0337200
## group_factorLichen Planus		-0.16118667	0.02064333	-0.16322667	0.1187033
## group_factorPsoriasis Vulgaris		-0.16274000	0.07512667	-0.36811333	-0.6014100

##		[,336]	[,337]	[,338]	[,339]
## (Intercept)		-0.05475333	0.5430067	-0.05126333	-0.3524933
## group_factorContact Eczema		0.14850667	-0.2097033	0.16478667	-0.1285300
## group_factorControl		-0.08219000	0.1737500	0.02645667	0.6107900
## group_factorLichen Planus		-0.19047333	-0.5669400	0.02715667	-0.1317700
## group_factorPsoriasis Vulgaris		0.27058000	-0.7433433	-0.07912333	-0.4141933
##		[,340]	[,341]	[,342]	[,343]
## (Intercept)		0.001293333	0.19613667	0.7163533	0.002563333
## group_factorContact Eczema		0.258156667	0.22927000	-0.0612800	0.289383333
## group_factorControl		0.262926667	-0.15563000	-0.7119000	0.151223333
## group_factorLichen Planus		0.091980000	-0.26016667	-0.1751467	0.126513333
## group_factorPsoriasis Vulgaris		0.379006667	0.02071333	0.0830700	-0.529323333
##		[,344]	[,345]	[,346]	[,347]
## (Intercept)		-0.1232033	0.25465667	-0.06465667	-0.3690933
## group_factorContact Eczema		-0.5810300	-0.66088333	-0.06350667	-0.2506133
## group_factorControl		0.3115133	-0.06301667	0.06655667	0.4339033
## group_factorLichen Planus		-0.6747633	-0.57396667	0.14772333	0.2531433
## group_factorPsoriasis Vulgaris		-0.3647067	-0.17462000	0.01947667	0.7162933
##		[,348]	[,349]	[,350]	[,351]
## (Intercept)		-0.03507000	-0.1818100	0.1595167	0.3930533
## group_factorContact Eczema		0.09081333	0.7347900	0.2772133	0.6867700
## group_factorControl		-0.01438667	-0.2777433	-0.5221433	-0.1574767
## group_factorLichen Planus		0.07197000	0.0553800	0.1231633	0.2297167
## group_factorPsoriasis Vulgaris		-0.37362667	0.7239200	0.5550633	-0.1371067
##		[,352]	[,353]	[,354]	[,355]
## (Intercept)		0.0323500	-0.13589333	0.1570200	0.4391500
## group_factorContact Eczema		-0.2158300	-0.81098333	0.4900600	0.1566067
## group_factorControl		0.1246867	0.46475333	-0.3747767	-0.4285900
## group_factorLichen Planus		-0.2977367	-0.02133667	0.1074867	0.2427133
## group_factorPsoriasis Vulgaris		-0.2139067	0.10743667	0.4268000	-0.2011100
##		[,356]	[,357]	[,358]	[,359]
## (Intercept)		-0.07161667	-0.0246300	0.05137667	0.25127000
## group_factorContact Eczema		0.30142667	0.2997200	0.09880667	-0.09058667
## group_factorControl		0.11647667	-0.0454700	0.15721000	-0.04391000
## group_factorLichen Planus		-0.04835333	-0.1038700	-0.04636667	-0.30753000
## group_factorPsoriasis Vulgaris		0.12755667	0.1366833	-0.22396000	-0.41503333
##		[,360]	[,361]	[,362]	[,363]
## (Intercept)		0.252180000	0.68916000	0.16988333	0.7728700
## group_factorContact Eczema		0.632306667	0.24381667	-0.01106000	0.4829233
## group_factorControl		-0.007336667	-0.30034000	0.08892667	-0.2651300
## group_factorLichen Planus		0.233420000	0.01794667	-0.08316667	0.3232400
## group_factorPsoriasis Vulgaris		-0.220306667	-1.14839333	-0.20078000	-1.2238267
##		[,364]	[,365]	[,366]	[,367]
## (Intercept)		0.09315333	0.4417367	-0.119426667	-0.5256933
## group_factorContact Eczema		-0.06832667	-0.1708267	-0.171426667	0.1369267
## group_factorControl		-0.46823333	-0.1311567	0.172586667	0.2321533
## group_factorLichen Planus		-0.32655333	0.0834300	0.005656667	-0.1574467
## group_factorPsoriasis Vulgaris		0.60329667	-0.3427933	0.173083333	0.3799333
##		[,368]	[,369]	[,370]	[,371]
## (Intercept)		-0.01115333	-0.09050667	0.16312333	-0.02595667
## group_factorContact Eczema		0.13347333	-0.00911000	0.13469333	0.10348333
## group_factorControl		-0.09629333	0.20772667	-0.03096667	-0.10233333
## group_factorLichen Planus		0.13799667	-0.05476000	0.15745333	-0.15998000
## group_factorPsoriasis Vulgaris		0.12068667	-0.00712000	-1.04313333	0.16975333

##		[,372]	[,373]	[,374]	[,375]
## (Intercept)		-0.1080767	-0.1128767	-0.06126667	-0.0029700
## group_factorContact Eczema		0.1116967	0.4950900	0.23644333	0.1252300
## group_factorControl		0.1713700	0.4026167	-0.13831333	-0.0682100
## group_factorLichen Planus		-0.0095200	0.3570667	-0.18260667	-0.2698100
## group_factorPsoriasis Vulgaris		-0.1651267	-0.7414933	0.59073000	0.1805433
##		[,376]	[,377]	[,378]	[,379]
## (Intercept)		-0.6032333	0.09269333	-0.12297333	-0.11658000
## group_factorContact Eczema		-0.0440800	-0.18283667	0.16090000	-0.25649667
## group_factorControl		0.7972167	-0.19794333	0.15772000	0.26948333
## group_factorLichen Planus		-0.2266833	-0.45901333	-0.01567667	-0.04310667
## group_factorPsoriasis Vulgaris		0.9321567	0.80633000	-0.03867667	-0.19553000
##		[,380]	[,381]	[,382]	
## (Intercept)		0.333073333	-0.08942000	-0.022323333	
## group_factorContact Eczema		-0.093036667	-0.03584333	-0.013590000	
## group_factorControl		-0.089640000	-0.15679000	0.007613333	
## group_factorLichen Planus		-0.007303333	0.03220667	0.085953333	
## group_factorPsoriasis Vulgaris		-0.789386667	0.29755667	0.144933333	
##		[,383]	[,384]	[,385]	[,386]
## (Intercept)		-0.01994000	-0.08618000	-0.4402267	0.1757267
## group_factorContact Eczema		0.02205667	0.05200333	-0.2967067	0.2340533
## group_factorControl		-0.00792000	0.11180333	0.7733433	-0.3424300
## group_factorLichen Planus		0.02151000	0.01962333	-0.1118033	-0.1105000
## group_factorPsoriasis Vulgaris		-0.20513667	-0.29554000	-0.3333567	0.1691733
##		[,387]	[,388]	[,389]	
## (Intercept)		0.005116667	-0.164993333	0.03592667	
## group_factorContact Eczema		0.031620000	0.003166667	0.26689333	
## group_factorControl		-0.132473333	0.267056667	0.06701000	
## group_factorLichen Planus		-0.136450000	-0.105100000	0.11600667	
## group_factorPsoriasis Vulgaris		0.049856667	-0.186643333	-0.25062667	
##		[,390]	[,391]	[,392]	[,393]
## (Intercept)		0.10964667	0.08639333	-0.10219000	0.2955000
## group_factorContact Eczema		-0.11219667	0.07605000	0.03948000	0.0790100
## group_factorControl		0.08825333	-0.20909333	0.21842000	-0.2390600
## group_factorLichen Planus		-0.07800333	-0.12956333	0.11136000	-0.1245067
## group_factorPsoriasis Vulgaris		-0.16357333	0.33743667	0.03450667	-0.3918167
##		[,394]	[,395]	[,396]	[,397]
## (Intercept)		0.1088333	0.1851267	-0.19819000	0.04086000
## group_factorContact Eczema		0.1185767	0.2442300	0.30148333	0.02219333
## group_factorControl		0.0069500	-0.1650933	0.15337667	-0.03745333
## group_factorLichen Planus		-0.1076767	0.2035667	-0.16448667	-0.01114667
## group_factorPsoriasis Vulgaris		0.1958400	-0.2281867	0.06163333	-0.15869000
##		[,398]	[,399]	[,400]	[,401]
## (Intercept)		0.01160333	0.13866667	-0.01941667	0.1611533
## group_factorContact Eczema		-0.04248667	-0.03373000	0.09855667	-0.0297500
## group_factorControl		-0.09044000	-0.11232667	0.13972333	-0.1116733
## group_factorLichen Planus		-0.22599667	0.03194667	0.04702333	0.1268333
## group_factorPsoriasis Vulgaris		0.03524333	0.11698333	-0.28189333	-0.2663867
##		[,402]	[,403]	[,404]	[,405]
## (Intercept)		0.6346533	0.11576000	0.16744333	-0.006536667
## group_factorContact Eczema		-0.2986433	-0.07119667	-0.04418667	0.389166667
## group_factorControl		-0.4174567	-0.23625333	-0.37687333	-0.051400000
## group_factorLichen Planus		-0.4246167	-0.08210000	-0.09911000	0.232473333
## group_factorPsoriasis Vulgaris		-0.3512300	-0.13599333	0.43257333	0.292640000

##		[,406]	[,407]	[,408]	[,409]
## (Intercept)		-0.07529667	-0.2093633	-0.05355667	-0.160756667
## group_factorContact Eczema		0.07377333	0.2446767	0.17262000	-0.352380000
## group_factorControl		0.24642667	0.1536700	0.05126667	0.283303333
## group_factorLichen Planus		0.09535333	-0.0856400	0.03384667	-0.384070000
## group_factorPsoriasis Vulgaris		0.20547667	0.1232567	-0.07469000	0.001896667
##		[,410]	[,411]	[,412]	[,413]
## (Intercept)		-0.2041700	0.13909667	0.6681100	0.2695167
## group_factorContact Eczema		-0.0688100	0.36280667	1.1654800	0.1355000
## group_factorControl		0.1337467	-0.07678667	-0.5967800	-0.3976600
## group_factorLichen Planus		-0.1995700	0.07092333	0.4987700	0.8616200
## group_factorPsoriasis Vulgaris		-0.1791767	-0.54557667	-0.4411167	0.7713967
##		[,414]	[,415]	[,416]	[,417]
## (Intercept)		0.16672333	0.04878667	-0.06631333	0.2957500
## group_factorContact Eczema		0.20543333	-0.16506333	0.19193000	0.3437533
## group_factorControl		-0.03420333	-0.40772333	0.26041667	-0.2111767
## group_factorLichen Planus		0.27405000	-0.26968000	0.37283000	0.3033967
## group_factorPsoriasis Vulgaris		-0.21223000	1.06267333	-0.15288667	-0.5607900
##		[,418]	[,419]	[,420]	[,421]
## (Intercept)		-0.08465333	0.02929000	0.10276333	0.2899233
## group_factorContact Eczema		0.09272667	-0.39288667	0.15062000	-0.3019233
## group_factorControl		0.03071000	-0.08953333	0.11851333	-0.0943000
## group_factorLichen Planus		-0.06777333	0.07327333	0.01854667	-0.1229167
## group_factorPsoriasis Vulgaris		0.18532333	-0.24008333	0.00839000	-0.1750367
##		[,422]	[,423]	[,424]	[,425]
## (Intercept)		0.12011333	0.06534333	-0.18874667	0.23746000
## group_factorContact Eczema		-0.33711000	0.11368000	-0.24242333	-0.05140000
## group_factorControl		-0.01958667	0.02679333	-0.01081667	-0.19772333
## group_factorLichen Planus		-0.35370667	-0.05589333	-0.44817000	-0.26112000
## group_factorPsoriasis Vulgaris		-0.17784333	0.43613000	0.55187000	0.05586333
##		[,426]	[,427]	[,428]	[,429]
## (Intercept)		0.05121333	-0.22539000	-0.46990000	0.0764700
## group_factorContact Eczema		-0.00429000	-0.07360667	-0.04408333	-0.4503633
## group_factorControl		0.12949667	0.31201000	0.55728000	-0.0222500
## group_factorLichen Planus		0.18752333	0.11917667	0.19989000	-0.4425200
## group_factorPsoriasis Vulgaris		-0.51303667	-0.03258333	-0.07015333	0.1740900
##		[,430]	[,431]	[,432]	[,433]
## (Intercept)		-0.079666667	-0.165336667	-0.1131633	-0.1033233
## group_factorContact Eczema		0.009023333	-0.045390000	-0.2227433	-0.3679000
## group_factorControl		0.187646667	0.336273333	0.3212533	-0.0916100
## group_factorLichen Planus		0.126803333	0.013603333	-0.0196600	-0.2677033
## group_factorPsoriasis Vulgaris		0.256160000	0.009743333	-0.2682100	0.2742067
##		[,434]	[,435]	[,436]	[,437]
## (Intercept)		0.5651033	0.548346667	1.551340	3.4533133
## group_factorContact Eczema		1.0984033	-0.231980000	1.107350	-0.4476400
## group_factorControl		-0.7248933	-0.495490000	-1.706563	-3.7735100
## group_factorLichen Planus		0.3668367	-0.002466667	-0.878150	-0.4007967
## group_factorPsoriasis Vulgaris		-0.2311467	-1.025860000	-1.584553	-2.6719533
##		[,438]	[,439]	[,440]	[,441]
## (Intercept)		0.8844667	0.294666667	0.1391000	1.2325267
## group_factorContact Eczema		1.3608167	0.006703333	0.7883800	0.2380533
## group_factorControl		-1.2319667	-0.395533333	0.5326533	-1.2096433
## group_factorLichen Planus		0.8329433	0.004880000	0.9765933	-0.1897800
## group_factorPsoriasis Vulgaris		-0.8127467	0.060030000	-0.2049433	-0.9950200

##		[,442]	[,443]	[,444]	[,445]
## (Intercept)		0.41879333	0.02305000	0.4427567	0.4503333
## group_factorContact Eczema		0.17659333	-0.50817333	-0.0732200	-0.3240967
## group_factorControl		0.03707667	0.03651667	-0.6601533	-0.3242867
## group_factorLichen Planus		-1.08573667	0.11589333	2.3050200	-0.2875900
## group_factorPsoriasis Vulgaris		-1.79239000	-0.57794333	0.2310333	-0.4195500
##		[,446]	[,447]	[,448]	[,449]
## (Intercept)		-0.45864000	0.043293333	0.02137667	-0.0159500
## group_factorContact Eczema		0.01483667	0.008406667	-0.06124667	-0.5307333
## group_factorControl		0.15881000	0.120650000	0.35950667	0.2234767
## group_factorLichen Planus		0.02336667	0.017250000	-0.64066333	-0.3995033
## group_factorPsoriasis Vulgaris		-0.10189000	0.022860000	-0.56207667	-0.2306133
##		[,450]	[,451]	[,452]	[,453]
## (Intercept)		0.009173333	0.0593900	0.00411000	0.32344000
## group_factorContact Eczema		-0.014873333	-0.2384700	0.52355000	-0.02215667
## group_factorControl		0.092916667	0.1071800	0.05161667	-0.30073333
## group_factorLichen Planus		0.066553333	0.0064300	0.20242000	-0.23734000
## group_factorPsoriasis Vulgaris		0.052343333	-0.2382267	0.15843667	0.10692667
##		[,454]	[,455]	[,456]	[,457]
## (Intercept)		0.56820667	0.2475300	0.080510000	-0.13490333
## group_factorContact Eczema		0.62291333	0.2753533	-0.290596667	-0.02744000
## group_factorControl		-0.67532333	-0.1000333	0.008573333	0.26411667
## group_factorLichen Planus		1.04264333	0.1102767	0.006360000	0.17610667
## group_factorPsoriasis Vulgaris		-0.07704333	-0.4079500	-0.273046667	-0.04907667
##		[,458]	[,459]	[,460]	[,461]
## (Intercept)		-0.026643333	0.1268533	0.7204633	-0.111486667
## group_factorContact Eczema		0.003183333	-0.4380200	-0.3786900	-0.086113333
## group_factorControl		0.122766667	-0.3392100	-0.3215567	0.246636667
## group_factorLichen Planus		-0.079310000	-0.3055467	-1.0375800	0.037883333
## group_factorPsoriasis Vulgaris		-0.232940000	-0.3347433	-0.9737533	0.009616667
##		[,462]	[,463]	[,464]	[,465]
## (Intercept)		-0.02665667	-0.03293000	0.1264367	0.0552800
## group_factorContact Eczema		-0.22954667	-0.05694000	-0.1159333	0.1326033
## group_factorControl		-0.03106333	0.17828000	-0.1945067	-0.1430667
## group_factorLichen Planus		0.23091333	-0.17139667	0.0248800	-0.1777800
## group_factorPsoriasis Vulgaris		-0.41953000	-0.08813333	0.1271900	-0.1552800
##		[,466]	[,467]	[,468]	[,469]
## (Intercept)		0.3342233	-0.2536633	0.10482333	-0.03424000
## group_factorContact Eczema		0.1428000	-0.2301800	-0.25907000	0.04399667
## group_factorControl		-0.3945233	0.6690067	-0.10750667	0.10785667
## group_factorLichen Planus		-0.5274733	-0.2323533	-0.38544000	0.12381000
## group_factorPsoriasis Vulgaris		-0.7189267	-0.0093200	-0.08459667	0.03046000
##		[,470]	[,471]	[,472]	[,473]
## (Intercept)		0.05094667	-0.07587667	-0.01681333	-0.1124233
## group_factorContact Eczema		-0.41089000	-0.01307000	0.09652667	-0.2927833
## group_factorControl		0.18639667	0.22495333	-0.06072333	0.4352567
## group_factorLichen Planus		-0.20568000	0.03201333	0.06414667	0.6836467
## group_factorPsoriasis Vulgaris		-0.07102667	-0.04872667	0.21871333	0.3760367
##		[,474]	[,475]	[,476]	[,477]
## (Intercept)		0.50766333	0.13817333	0.05519000	0.9272567
## group_factorContact Eczema		-0.00581000	-0.18309000	-0.38783667	-0.2694733
## group_factorControl		-0.47308333	0.09365000	0.03569667	-0.7012200
## group_factorLichen Planus		0.18836667	0.06372333	0.12230667	-0.1871767
## group_factorPsoriasis Vulgaris		0.05983667	-0.03743000	-0.48172000	-0.7395567

##		[,478]	[,479]	[,480]	[,481]
## (Intercept)		0.43563667	0.5938900	0.05093000	0.074153333
## group_factorContact Eczema		0.02942667	0.1166100	-0.03921667	0.001943333
## group_factorControl		-0.52321667	-0.6922000	0.14328000	-0.167900000
## group_factorLichen Planus		0.52526667	-0.3020733	-0.07545333	0.235450000
## group_factorPsoriasis Vulgaris		-0.07587000	0.2148367	0.25823000	0.016173333
##		[,482]	[,483]	[,484]	[,485]
## (Intercept)		0.10114333	0.06986000	-0.05157667	0.119903333
## group_factorContact Eczema		0.02805000	-0.05812333	-0.05569667	-0.142363333
## group_factorControl		-0.01334333	-0.12936000	0.02026333	0.006446667
## group_factorLichen Planus		-0.19415000	-0.01225000	-0.08589000	-0.023913333
## group_factorPsoriasis Vulgaris		0.02087000	0.00442000	0.05073667	0.055023333
##		[,486]	[,487]	[,488]	[,489]
## (Intercept)		-0.05192667	0.08446667	0.15278333	0.12013000
## group_factorContact Eczema		0.11476000	-0.19927333	0.10127000	-0.30946000
## group_factorControl		0.16940333	0.16204667	-0.02181667	-0.01336333
## group_factorLichen Planus		-0.03679667	-0.31032000	-0.01399333	-0.21232667
## group_factorPsoriasis Vulgaris		0.04667667	-0.29891333	-0.06223667	0.47364667
##		[,490]	[,491]	[,492]	[,493]
## (Intercept)		0.19459000	-0.3259067	0.009653333	0.1543433
## group_factorContact Eczema		-0.01915333	-0.0162700	0.005016667	0.0160700
## group_factorControl		0.02986000	0.4663833	0.294393333	0.0817100
## group_factorLichen Planus		0.09615000	-0.1567200	-0.253276667	0.2433733
## group_factorPsoriasis Vulgaris		-0.28583333	0.0786800	-0.012466667	-0.2227767
##		[,494]	[,495]	[,496]	[,497]
## (Intercept)		0.2289967	0.20809667	0.3686700	-0.19841667
## group_factorContact Eczema		-0.3293200	-0.23073000	0.2271300	0.03020000
## group_factorControl		-0.1518600	-0.10461667	-0.2291833	0.22054333
## group_factorLichen Planus		-0.2579533	-0.09121667	0.1476233	0.06411667
## group_factorPsoriasis Vulgaris		-0.1492167	-0.50240000	-0.3474733	-0.06299000
##		[,498]	[,499]	[,500]	[,501]
## (Intercept)		0.01620667	-0.21147333	-0.114036667	0.30973667
## group_factorContact Eczema		0.09926667	-0.09466333	-0.007723333	-0.03638333
## group_factorControl		-0.30107333	0.26802333	0.225533333	-0.51580667
## group_factorLichen Planus		-0.39045333	0.37120667	0.040686667	-0.49951333
## group_factorPsoriasis Vulgaris		0.17609667	-0.13320333	-0.402006667	0.53831667
##		[,502]	[,503]	[,504]	[,505]
## (Intercept)		0.740786667	0.10253667	-1.4702033	0.15552000
## group_factorContact Eczema		-0.007196667	0.27195667	0.7020300	-0.10234667
## group_factorControl		-0.390350000	-0.08333667	0.9518733	-0.06498667
## group_factorLichen Planus		0.108100000	0.05059000	0.5018000	-0.02182667
## group_factorPsoriasis Vulgaris		-0.996050000	0.72044667	-0.8991667	-0.28789333
##		[,506]	[,507]	[,508]	[,509]
## (Intercept)		-1.339047	-0.6893133	0.11821667	-0.55929333
## group_factorContact Eczema		-0.335950	-0.0325900	-0.03438333	-0.12511667
## group_factorControl		1.260383	0.3176233	-0.10735333	0.37048000
## group_factorLichen Planus		0.135090	-0.1271967	-0.23093333	-0.15125333
## group_factorPsoriasis Vulgaris		-0.269690	-0.2371767	0.06605000	-0.09837667
##		[,510]	[,511]	[,512]	[,513]
## (Intercept)		-0.40952333	0.3648900	1.3575933	-0.80580000
## group_factorContact Eczema		-0.08665667	-0.1408900	-0.3504900	0.21207333
## group_factorControl		0.05872667	-0.2661700	-1.5154133	0.51977000
## group_factorLichen Planus		-0.18218333	-0.0168700	0.5882267	-0.09424667
## group_factorPsoriasis Vulgaris		0.23885333	-0.5205667	1.7285467	0.45217667

##		[,514]	[,515]	[,516]	[,517]
## (Intercept)		-0.1128700	-0.003206667	-0.651566667	0.29401333
## group_factorContact Eczema		0.1092800	0.277133333	-0.010100000	0.71731000
## group_factorControl		-0.0615000	0.170353333	0.088503333	-0.27831333
## group_factorLichen Planus		0.1354100	0.078730000	-0.106200000	0.02517333
## group_factorPsoriasis Vulgaris		0.1783967	0.614290000	-0.002583333	-0.24616333
##		[,518]	[,519]	[,520]	[,521]
## (Intercept)		-0.0258800	-1.0885633	-0.05021000	-0.3678267
## group_factorContact Eczema		0.1471667	-0.1728200	0.14473000	-0.2968100
## group_factorControl		0.3600000	1.0332800	-0.03084000	0.0477000
## group_factorLichen Planus		0.2115467	0.1993967	-0.04591667	0.7553433
## group_factorPsoriasis Vulgaris		-0.2736967	-0.1985967	0.45346333	-0.1320533
##		[,522]	[,523]	[,524]	[,525]
## (Intercept)		0.4006633	-0.55709333	0.089050000	-0.27777667
## group_factorContact Eczema		-0.2448733	-0.22965000	-0.009686667	-0.13314667
## group_factorControl		-0.1995967	0.09852333	-0.351830000	-0.05078667
## group_factorLichen Planus		-0.5329067	-0.24192333	-0.282153333	-0.20863333
## group_factorPsoriasis Vulgaris		-0.5804433	0.33897333	0.322563333	0.51496000
##		[,526]	[,527]	[,528]	[,529]
## (Intercept)		0.07677333	-0.07769333	-0.08166667	-0.07452333
## group_factorContact Eczema		0.04946000	0.06025000	0.17724000	0.18533000
## group_factorControl		-0.06523333	0.09832000	-0.16363333	-0.13220667
## group_factorLichen Planus		-0.08364333	-0.06747333	-0.19234667	-0.07372667
## group_factorPsoriasis Vulgaris		-0.09735667	-0.06259667	0.10210333	0.12256000
##		[,530]	[,531]	[,532]	[,533]
## (Intercept)		-0.0945200	-0.095330000	-0.05286667	-0.7993000
## group_factorContact Eczema		0.1636067	0.006473333	0.07349667	0.1151767
## group_factorControl		0.0684800	-0.057373333	-0.07487000	0.5343100
## group_factorLichen Planus		-0.1716933	-0.063673333	-0.17809667	0.1130933
## group_factorPsoriasis Vulgaris		-0.1104300	-0.130233333	-0.07905333	-0.0159800
##		[,534]	[,535]	[,536]	[,537]
## (Intercept)		0.07811667	0.2624600	0.003456667	-0.03255333
## group_factorContact Eczema		-0.01800000	-0.2308233	-0.237323333	-0.13583667
## group_factorControl		-0.13015333	-0.3681567	-0.106676667	0.04152667
## group_factorLichen Planus		0.04069667	-0.1350333	-0.178306667	-0.07796333
## group_factorPsoriasis Vulgaris		0.97992333	0.4522467	-0.053293333	0.15222333
##		[,538]	[,539]	[,540]	[,541]
## (Intercept)		-0.29529000	-0.10252667	-0.39113333	-0.08627333
## group_factorContact Eczema		0.05529000	0.21753000	0.01452333	0.07703000
## group_factorControl		0.02102667	-0.09133333	0.28551667	-0.01051000
## group_factorLichen Planus		-0.09974667	-0.10776667	-0.08368333	-0.20652333
## group_factorPsoriasis Vulgaris		0.48934333	0.24138000	0.15230333	0.24424667
##		[,542]	[,543]	[,544]	[,545]
## (Intercept)		-0.4467733	0.36115667	0.02728000	0.005706667
## group_factorContact Eczema		-0.1372533	0.46590333	0.07354333	-0.042760000
## group_factorControl		0.1798567	-0.67196333	-0.15435667	-0.103363333
## group_factorLichen Planus		-0.1402933	-0.05146333	-0.04589000	-0.288086667
## group_factorPsoriasis Vulgaris		-0.0862100	0.61149333	0.05911333	-0.245046667
##		[,546]	[,547]	[,548]	[,549]
## (Intercept)		0.06421333	-0.14766667	-0.15258333	0.16186333
## group_factorContact Eczema		-0.22296000	0.09526333	0.04750333	-0.35593000
## group_factorControl		-0.04845333	0.10020000	-0.00787000	-0.08633333
## group_factorLichen Planus		-0.40918000	-0.00126000	-0.17402667	-0.22088333
## group_factorPsoriasis Vulgaris		-0.30959667	-0.29109000	0.23475000	0.26666333

##		[,550]	[,551]	[,552]	[,553]
## (Intercept)		1.1333767	-0.18491000	0.2924000	-0.15383333
## group_factorContact Eczema		-0.3815167	-0.19168000	0.1217333	-0.09464333
## group_factorControl		-0.7070000	0.10087000	-0.2724900	0.26604667
## group_factorLichen Planus		-0.4370567	-0.23595333	0.3581900	-0.21765333
## group_factorPsoriasis Vulgaris		-1.3344533	0.02204667	0.6205333	-0.39084000
##		[,554]	[,555]	[,556]	[,557]
## (Intercept)		-0.04984667	0.24270333	-1.0033600	-0.1206467
## group_factorContact Eczema		0.00821000	-0.25514667	0.1297533	0.6456833
## group_factorControl		0.01007667	-0.11762000	1.3264800	-0.4801667
## group_factorLichen Planus		-0.07222333	-0.07847667	0.2855900	-0.5652000
## group_factorPsoriasis Vulgaris		0.27178667	-0.25119000	-0.1873967	0.6100967
##		[,558]	[,559]	[,560]	[,561]
## (Intercept)		-0.06880000	0.1561667	-0.58147333	-0.09739667
## group_factorContact Eczema		0.12256000	0.7434967	0.19917000	-0.04939333
## group_factorControl		-0.01652333	-0.5308267	0.56764000	0.23984000
## group_factorLichen Planus		-0.05864667	-0.6914900	-0.31462667	-0.10524667
## group_factorPsoriasis Vulgaris		-0.18525000	2.2903867	0.03441667	-0.03065333
##		[,562]	[,563]	[,564]	[,565]
## (Intercept)		0.03686667	-0.37166333	0.05033667	-0.53646667
## group_factorContact Eczema		0.07541667	-0.21412000	0.98364000	0.26757333
## group_factorControl		-0.02241333	0.78972667	-0.99457667	0.40201333
## group_factorLichen Planus		0.07269000	0.06326667	-0.98212333	0.05082667
## group_factorPsoriasis Vulgaris		-0.21775333	-0.13437333	-0.35198000	0.17768000
##		[,566]	[,567]	[,568]	[,569]
## (Intercept)		-0.07443667	-0.11101000	-0.01352667	0.01878333
## group_factorContact Eczema		-0.13497667	-0.02322333	0.04310667	0.31671333
## group_factorControl		0.30381333	0.12186333	0.20741000	0.03918333
## group_factorLichen Planus		0.03034333	-0.12209333	-0.08085667	0.01072667
## group_factorPsoriasis Vulgaris		-0.31355667	0.10359667	-0.47181333	-0.02668000
##		[,570]	[,571]	[,572]	[,573]
## (Intercept)		0.02388333	0.12151333	0.10393000	0.09238000
## group_factorContact Eczema		0.29461333	-0.28392333	0.08924667	-0.05501333
## group_factorControl		-0.14314333	-0.03958333	-0.22291667	-0.24645333
## group_factorLichen Planus		0.31340000	-0.13716333	-0.23317333	-0.06498667
## group_factorPsoriasis Vulgaris		0.51326000	-0.04510000	0.30210667	0.39973000
##		[,574]	[,575]	[,576]	[,577]
## (Intercept)		-0.4435967	0.2269867	0.05138333	-0.229966667
## group_factorContact Eczema		-0.1363267	0.0276500	0.08765667	0.007903333
## group_factorControl		0.2482167	-0.4159967	-0.23813667	0.203313333
## group_factorLichen Planus		-0.1781167	-0.1637433	-0.11230333	-0.079753333
## group_factorPsoriasis Vulgaris		0.5554133	0.2666800	0.25229667	-0.298140000
##		[,578]	[,579]	[,580]	[,581]
## (Intercept)		-0.04139667	0.4917133	0.1827833	0.03288333
## group_factorContact Eczema		-0.03540333	-0.3113200	0.2745800	-0.10375000
## group_factorControl		-0.10706667	-0.7591533	-0.1097867	-0.08439333
## group_factorLichen Planus		-0.07185333	-0.4723000	0.2589567	-0.08403333
## group_factorPsoriasis Vulgaris		0.37588333	-0.3917433	-0.1167933	0.09091333
##		[,582]	[,583]	[,584]	[,585]
## (Intercept)		0.14426000	0.03734333	0.18610667	-0.17172000
## group_factorContact Eczema		0.07284000	0.20107333	0.00174000	-0.12157667
## group_factorControl		0.02414667	0.06165000	-0.27211667	0.22626333
## group_factorLichen Planus		0.10786667	0.07452333	-0.07753667	0.01070333
## group_factorPsoriasis Vulgaris		-0.28396000	-0.18091667	-0.15000000	0.16869667

##		[,586]	[,587]	[,588]	[,589]
## (Intercept)		-0.04253333	-0.1726733	0.006493333	-0.33575333
## group_factorContact Eczema		0.15931667	0.1434733	-0.322140000	0.03922333
## group_factorControl		-0.22171667	0.1395733	0.182063333	0.43120000
## group_factorLichen Planus		0.05717667	-0.1484267	-0.201726667	-0.00114000
## group_factorPsoriasis Vulgaris		0.07674000	0.2760533	0.326210000	0.10339333
##		[,590]	[,591]	[,592]	[,593]
## (Intercept)		0.28682667	-0.02647333	-0.1886433	0.02299667
## group_factorContact Eczema		0.02365333	0.05430333	-0.0567200	-0.04572667
## group_factorControl		-0.24110333	0.03459667	0.2950833	-0.04068667
## group_factorLichen Planus		-0.24765000	-0.02924333	-0.2114300	-0.26103667
## group_factorPsoriasis Vulgaris		-0.14950333	-0.19381333	-0.3093400	-0.39815333
##		[,594]	[,595]	[,596]	[,597]
## (Intercept)		-0.06864333	0.04822667	0.08800667	0.13336000
## group_factorContact Eczema		0.06814667	0.04320333	0.05061667	0.07094000
## group_factorControl		0.24379333	-0.04931667	0.06396000	-0.04100667
## group_factorLichen Planus		0.14418000	0.25220000	0.07951667	-0.07118333
## group_factorPsoriasis Vulgaris		0.37703000	-0.49395000	-0.28955333	-0.15162667
##		[,598]	[,599]	[,600]	[,601]
## (Intercept)		0.17242000	-0.07516000	0.01880667	-0.21758667
## group_factorContact Eczema		0.13198000	0.02765667	0.00819000	0.21789667
## group_factorControl		-0.04097000	0.19026333	-0.00933000	0.10179333
## group_factorLichen Planus		-0.05102333	-0.14331000	0.01602000	-0.02592667
## group_factorPsoriasis Vulgaris		-0.19532333	-0.38102667	-0.12052667	0.28535000
##		[,602]	[,603]	[,604]	[,605]
## (Intercept)		0.14924000	0.098270000	-0.06755333	-0.01543333
## group_factorContact Eczema		0.09868333	0.016446667	0.25361000	0.35028000
## group_factorControl		-0.27939667	-0.002353333	0.08426667	-0.17375333
## group_factorLichen Planus		-0.25574000	-0.019663333	-0.11861667	0.21292667
## group_factorPsoriasis Vulgaris		0.02341000	-0.119910000	0.17346333	0.26470000
##		[,606]	[,607]	[,608]	[,609]
## (Intercept)		-0.275160000	-0.09222000	0.9573267	0.06612333
## group_factorContact Eczema		-0.008053333	0.19127000	0.6739200	0.26157333
## group_factorControl		-0.129270000	-0.05219667	-0.9737000	-0.20161333
## group_factorLichen Planus		-0.116636667	-0.03518333	0.6839867	-0.01676333
## group_factorPsoriasis Vulgaris		0.343186667	0.19847333	-0.4484600	0.25347667
##		[,610]	[,611]	[,612]	[,613]
## (Intercept)		0.083790000	0.24550333	0.75822667	0.7566433
## group_factorContact Eczema		0.066206667	-0.02053667	0.17561333	0.3364867
## group_factorControl		-0.008363333	0.18088000	-0.73787000	-0.7333333
## group_factorLichen Planus		0.052563333	-0.69138667	0.32648333	0.6388400
## group_factorPsoriasis Vulgaris		-0.396730000	-1.01698000	-0.01962333	-0.5258333
##		[,614]	[,615]	[,616]	[,617]
## (Intercept)		-0.05860667	-0.33727667	0.1992100	-0.10231333
## group_factorContact Eczema		-0.01134667	0.01980667	-0.0204700	-0.14945667
## group_factorControl		-0.03913000	-0.14617000	-0.2226467	-0.07063667
## group_factorLichen Planus		-0.05843667	-0.20651333	-0.1772600	-0.21209000
## group_factorPsoriasis Vulgaris		0.14249000	0.70973667	-0.0792600	0.64046667
##		[,618]	[,619]	[,620]	[,621]
## (Intercept)		-0.10072333	-0.3135367	0.07400667	0.06682333
## group_factorContact Eczema		-0.05400667	0.1500000	-0.08153667	0.33182333
## group_factorControl		0.01672333	0.1141167	-0.07709667	-0.00866000
## group_factorLichen Planus		0.05134667	0.0883800	-0.01060667	0.09285667
## group_factorPsoriasis Vulgaris		0.30900000	0.3866933	-0.14281333	-0.06928000

##		[,622]	[,623]	[,624]	[,625]
## (Intercept)		0.3222300	-0.04138333	0.0984300	0.11255667
## group_factorContact Eczema		0.2612500	-0.02478000	0.2579533	-0.27127000
## group_factorControl		-0.5083433	0.03915000	0.1301833	0.02303000
## group_factorLichen Planus		0.4624733	-0.08046333	0.1532267	0.05056333
## group_factorPsoriasis Vulgaris		0.1002500	-0.13836333	-0.3798200	-0.27223000
##		[,626]	[,627]	[,628]	[,629]
## (Intercept)		0.196400000	0.30881333	-0.4609033	0.18819000
## group_factorContact Eczema		-0.009983333	0.23858000	0.2185567	-0.04498000
## group_factorControl		-0.103886667	-0.26510000	0.6408667	0.03960333
## group_factorLichen Planus		-0.218983333	0.05029667	0.2081967	0.19642333
## group_factorPsoriasis Vulgaris		0.136980000	-0.20832000	-0.2899633	-0.25133000
##		[,630]	[,631]	[,632]	[,633]
## (Intercept)		0.04137333	-0.358910000	-0.5617767	-0.28542000
## group_factorContact Eczema		0.09236667	-0.332386667	-0.3850933	0.11368667
## group_factorControl		-0.28289667	0.481363333	0.5892233	0.24826000
## group_factorLichen Planus		-0.07767000	-0.002046667	0.4345000	-0.04649333
## group_factorPsoriasis Vulgaris		0.47508667	-0.190686667	0.2701700	0.24527667
##		[,634]	[,635]	[,636]	[,637]
## (Intercept)		-0.04055667	-0.09289667	-0.075916667	-0.27610333
## group_factorContact Eczema		-0.10159667	0.01074000	0.040406667	-0.30745000
## group_factorControl		0.06155667	0.05718667	-0.007363333	0.33355667
## group_factorLichen Planus		-0.20923000	-0.12237333	-0.096706667	-0.00758000
## group_factorPsoriasis Vulgaris		-0.00011000	0.18355333	-0.057880000	0.08245333
##		[,638]	[,639]	[,640]	[,641]
## (Intercept)		0.10635333	-0.1533067	-0.1024300	0.5502900
## group_factorContact Eczema		-0.25066333	0.0932400	0.2957967	0.8346833
## group_factorControl		-0.17788000	0.1061700	0.1505967	-0.3289567
## group_factorLichen Planus		-0.14077667	-0.0911400	0.1870833	-0.0483400
## group_factorPsoriasis Vulgaris		-0.09710333	0.1221067	0.2923300	-0.6173467
##		[,642]	[,643]	[,644]	[,645]
## (Intercept)		-0.1132167	0.27567000	0.10399333	0.3600133
## group_factorContact Eczema		0.1634067	0.04698333	0.26571000	-0.1156733
## group_factorControl		0.1098733	-0.18544667	-0.19336000	-0.2572733
## group_factorLichen Planus		-0.0514100	-0.07109000	-0.03697333	-0.1944733
## group_factorPsoriasis Vulgaris		0.2058367	-0.25092000	-0.04349667	-0.2308833
##		[,646]	[,647]	[,648]	[,649]
## (Intercept)		0.3071600	-0.06039667	0.1198300	-0.155326667
## group_factorContact Eczema		0.5737233	0.08345333	-0.1513300	0.253820000
## group_factorControl		-0.4570833	0.18392667	-0.1727400	0.242910000
## group_factorLichen Planus		0.2340467	0.04179000	-0.1499933	-0.013676667
## group_factorPsoriasis Vulgaris		-0.3224467	-0.03625000	-0.3099233	-0.001386667
##		[,650]	[,651]	[,652]	
## (Intercept)		-0.367513333	0.007573333	-0.07341667	
## group_factorContact Eczema		-0.006043333	0.075686667	-0.10184000	
## group_factorControl		0.252706667	0.003590000	-0.08643667	
## group_factorLichen Planus		0.173850000	-0.118003333	-0.21475333	
## group_factorPsoriasis Vulgaris		0.520810000	0.004763333	-0.08494333	
##		[,653]	[,654]	[,655]	[,656]
## (Intercept)		-0.20544333	-0.41395000	0.1959867	0.01159000
## group_factorContact Eczema		-0.37477000	0.31829000	0.1089533	0.01180333
## group_factorControl		0.32360000	0.28388333	-0.2318267	-0.10958000
## group_factorLichen Planus		-0.03767667	0.68043333	-0.1057333	-0.03195333
## group_factorPsoriasis Vulgaris		0.02644333	-0.02974333	0.1727433	0.27614667

##		[,657]	[,658]	[,659]	[,660]
## (Intercept)		0.08101333	0.1964200	0.3992567	0.07333000
## group_factorContact Eczema		-0.11059667	0.3476333	-0.2429900	0.07929333
## group_factorControl		-0.11739333	-0.3416467	-0.1044500	-0.25984333
## group_factorLichen Planus		-0.10686000	1.4116733	-0.5028867	-0.02361667
## group_factorPsoriasis Vulgaris		-0.35100000	0.2552267	-0.5546267	-0.10233333
##		[,661]	[,662]	[,663]	[,664]
## (Intercept)		0.6854633	-0.1727500	0.3952133	0.8196200
## group_factorContact Eczema		-0.4199000	-1.9935433	-1.0923333	-0.2801367
## group_factorControl		-0.5279733	0.0492600	-0.1380933	-0.8719100
## group_factorLichen Planus		-0.6977600	-0.5653133	-0.0364200	0.0960000
## group_factorPsoriasis Vulgaris		-0.7505867	1.1181267	0.3467833	0.3916833
##		[,665]	[,666]	[,667]	[,668]
## (Intercept)		0.4728167	0.9428767	-0.06004667	0.1101100
## group_factorContact Eczema		0.2218700	-0.4757200	-0.21097667	0.1466467
## group_factorControl		-1.1524533	-0.8569867	0.10773333	-0.0581500
## group_factorLichen Planus		0.5087633	-0.2548467	-0.16338333	0.0566400
## group_factorPsoriasis Vulgaris		1.2738367	-0.1096667	0.35602333	-0.1473300
##		[,669]	[,670]	[,671]	[,672]
## (Intercept)		-0.031493333	0.1093767	0.32641667	-0.11342333
## group_factorContact Eczema		-0.003603333	0.2619833	0.13082000	-0.09634333
## group_factorControl		0.112160000	0.3130933	-0.62374667	0.01404000
## group_factorLichen Planus		-0.050290000	0.2103267	0.07259667	-0.05078000
## group_factorPsoriasis Vulgaris		-0.194893333	-0.6266667	-0.18976000	0.68172000
##		[,673]	[,674]	[,675]	[,676]
## (Intercept)		-0.1587800	0.2284400	0.10656667	-0.0813500
## group_factorContact Eczema		0.2812567	-0.0126900	-0.05511333	-1.0948467
## group_factorControl		0.3238000	-0.2268233	-0.02508667	-0.0618500
## group_factorLichen Planus		0.1963467	-0.1024633	-0.01433000	-0.3903467
## group_factorPsoriasis Vulgaris		-0.0972300	0.1345733	0.01048000	0.6713967
##		[,677]	[,678]	[,679]	[,680]
## (Intercept)		0.0694700	-0.05768667	0.455703333	0.29932667
## group_factorContact Eczema		-0.1914633	0.10130333	0.420820000	0.02219667
## group_factorControl		0.0955900	0.15684333	-0.232393333	-0.80503667
## group_factorLichen Planus		0.7066100	-0.12471000	-0.009993333	-0.03528333
## group_factorPsoriasis Vulgaris		0.4039167	-0.09384667	-0.340026667	0.41173667
##		[,681]	[,682]	[,683]	[,684]
## (Intercept)		0.451696667	0.2780600	0.11807667	0.0726900
## group_factorContact Eczema		0.051610000	-0.1299267	-0.01734333	-0.2286500
## group_factorControl		0.002773333	-0.4966567	-0.12936667	-0.1775433
## group_factorLichen Planus		-0.144713333	-0.2323067	-0.15673333	0.0102400
## group_factorPsoriasis Vulgaris		-0.527763333	0.1435100	-0.23511000	0.3541000
##		[,685]	[,686]	[,687]	[,688]
## (Intercept)		-0.1725400	-0.14014000	-0.06170667	0.0504500
## group_factorContact Eczema		-0.2339900	-0.19042000	0.07134000	0.1901967
## group_factorControl		0.1374533	0.01398667	0.16359667	0.1330033
## group_factorLichen Planus		-0.1607767	-0.06094333	0.04494000	0.2408633
## group_factorPsoriasis Vulgaris		0.4788200	0.28032667	-0.23133667	-0.5658300
##		[,689]	[,690]	[,691]	[,692]
## (Intercept)		-0.238463333	0.4857600	4.6392900	3.5318300
## group_factorContact Eczema		-0.002013333	0.3259633	0.1242467	0.3370767
## group_factorControl		0.372723333	-0.7602667	-5.6027667	-4.8149000
## group_factorLichen Planus		-0.318696667	-0.5516767	-0.4138900	-0.3620400
## group_factorPsoriasis Vulgaris		-0.175073333	1.6180200	1.7289000	2.1729033

##		[,693]	[,694]	[,695]	[,696]
## (Intercept)		1.9180267	1.8694000	0.1291167	0.4326867
## group_factorContact Eczema		-0.4620867	-0.2093900	0.2256867	-0.2433567
## group_factorControl		-2.6052300	-2.4491400	-0.2716333	-0.6603800
## group_factorLichen Planus		-0.1535100	-0.9060667	-0.0050100	-0.4213333
## group_factorPsoriasis Vulgaris		0.7640433	2.0667367	0.4208733	0.4866233
##		[,697]	[,698]	[,699]	[,700]
## (Intercept)		0.187986667	0.31193000	0.3418867	0.34738
## group_factorContact Eczema		0.165490000	-0.35736000	-0.5434367	-0.21048
## group_factorControl		-0.162146667	-0.18103667	-0.2847633	-0.39177
## group_factorLichen Planus		-0.044663333	-0.25376000	-0.2429667	-0.01343
## group_factorPsoriasis Vulgaris		-0.003296667	-0.04125333	0.3751333	0.12776
##		[,701]	[,702]	[,703]	[,704]
## (Intercept)		0.2808033	0.46144333	0.07288333	0.05974333
## group_factorContact Eczema		-0.2893233	0.27197667	0.24594333	0.19921000
## group_factorControl		-0.1205133	-0.54214333	0.08335000	0.03312667
## group_factorLichen Planus		-0.1759700	0.43921667	-0.23483333	0.14916333
## group_factorPsoriasis Vulgaris		-0.1350700	0.01664667	-0.14335000	-0.13731667
##		[,705]	[,706]	[,707]	[,708]
## (Intercept)		-0.25966333	-0.24161667	-0.2931833	-0.31634000
## group_factorContact Eczema		-0.08999000	-0.04863000	0.0146200	-0.05092333
## group_factorControl		0.48671667	0.06923333	0.2221767	0.33205333
## group_factorLichen Planus		-0.29100333	-0.04475000	0.0078800	-0.44383333
## group_factorPsoriasis Vulgaris		0.01039333	0.24747333	0.3806633	0.20997333
##		[,709]	[,710]	[,711]	[,712]
## (Intercept)		0.2950367	0.16007000	0.48797667	0.02426333
## group_factorContact Eczema		-0.5623967	0.02959667	0.59354667	-0.11616000
## group_factorControl		-0.1975833	-0.98093667	-0.14968333	0.11938667
## group_factorLichen Planus		-0.6640367	0.11232667	0.03228333	-0.08863333
## group_factorPsoriasis Vulgaris		-0.0205300	0.38792667	-0.13053000	-0.03109000
##		[,713]	[,714]	[,715]	[,716]
## (Intercept)		-0.009423333	-0.54254667	0.04052000	0.1922200
## group_factorContact Eczema		-0.798633333	0.10667000	0.02559333	0.1512767
## group_factorControl		0.074876667	0.38546000	-0.09530667	-0.1680867
## group_factorLichen Planus		-0.216370000	-0.02646333	-0.19821333	0.2130667
## group_factorPsoriasis Vulgaris		0.420936667	0.18527333	0.02485667	0.1065333
##		[,717]	[,718]	[,719]	[,720]
## (Intercept)		0.18795000	-0.0681600	-0.3530200	-0.32107667
## group_factorContact Eczema		-0.14203667	0.1032867	-0.3195767	-0.09812000
## group_factorControl		-0.25606333	-0.1604367	0.3123600	0.32442667
## group_factorLichen Planus		-0.01703333	-0.1407700	-0.5019733	-0.03109667
## group_factorPsoriasis Vulgaris		0.11396667	0.3946267	0.3391700	0.11372000
##		[,721]	[,722]	[,723]	[,724]
## (Intercept)		-0.10859000	-0.2205233	0.04225333	-0.0871200
## group_factorContact Eczema		-0.09528667	0.2824933	-0.01402000	-0.2876967
## group_factorControl		0.25211333	0.2011733	-0.04508667	0.1311700
## group_factorLichen Planus		-0.04301000	0.2112467	-0.08390000	-0.1025300
## group_factorPsoriasis Vulgaris		-0.55119667	-0.1655667	0.50617667	-0.2450300
##		[,725]	[,726]	[,727]	[,728]
## (Intercept)		0.264210000	-0.04618333	-0.8122600	0.0090600
## group_factorContact Eczema		-0.223940000	0.03933667	0.1504800	-0.4767100
## group_factorControl		-0.109103333	0.01405000	0.8164433	0.1092500
## group_factorLichen Planus		-0.447326667	-0.12582667	0.1480567	-0.4581833
## group_factorPsoriasis Vulgaris		0.003816667	0.19810333	0.2587400	-0.1586033

##		[,729]	[,730]	[,731]
## (Intercept)		0.12366667	0.16742333	0.01616667
## group_factorContact Eczema		-0.09836333	0.19499667	0.01644667
## group_factorControl		-0.29097667	-0.00008000	-0.01780667
## group_factorLichen Planus		-0.29367667	-0.07267667	-0.19823667
## group_factorPsoriasis Vulgaris		0.08359000	-0.62782333	-0.15215667
##		[,732]	[,733]	[,734]
## (Intercept)		-0.2608866667	-0.08735333	0.9666033
## group_factorContact Eczema		0.0165100000	-0.28100000	0.3589500
## group_factorControl		0.2567366667	0.03852667	-1.3723967
## group_factorLichen Planus		0.0698800000	0.03935333	-0.5398000
## group_factorPsoriasis Vulgaris		-0.0004833333	0.13080333	1.7718667
##		[,736]	[,737]	[,738]
## (Intercept)		-0.98473667	-0.1521500	0.07373333
## group_factorContact Eczema		-0.35765333	0.0050500	-0.07558000
## group_factorControl		1.28071333	0.5075700	0.06530000
## group_factorLichen Planus		0.02876667	-0.1494100	-0.11769667
## group_factorPsoriasis Vulgaris		-0.05051000	-0.6876667	-0.26734000
##		[,740]	[,741]	[,742]
## (Intercept)		0.37617000	0.16493667	-0.04364333
## group_factorContact Eczema		0.28895667	0.06769667	0.25657667
## group_factorControl		-0.06708667	-0.11740333	0.03704000
## group_factorLichen Planus		-0.05228667	0.12661667	0.01653667
## group_factorPsoriasis Vulgaris		-0.81276333	-0.14791000	-0.01453333
##		[,744]	[,745]	[,746]
## (Intercept)		0.04670333	-0.01299000	0.42640000
## group_factorContact Eczema		0.09209333	0.02389000	-0.30356667
## group_factorControl		-0.09326667	0.06162667	-0.41266667
## group_factorLichen Planus		-0.15514000	-0.15885333	0.12926000
## group_factorPsoriasis Vulgaris		-0.08560667	0.06657667	0.05670667
##		[,748]	[,749]	[,750]
## (Intercept)		-0.1148100	-0.1357667	-0.12257000
## group_factorContact Eczema		-0.5608667	-0.1673333	-0.29821333
## group_factorControl		0.4658400	0.6185933	-0.18961333
## group_factorLichen Planus		-0.5205467	-0.0948700	-0.02651333
## group_factorPsoriasis Vulgaris		-0.7049867	-0.3198933	0.38195333
##		[,752]	[,753]	[,754]
## (Intercept)		0.2442533	0.02272667	-0.2288300
## group_factorContact Eczema		-0.4349233	-0.83687000	-0.5145133
## group_factorControl		-0.1650467	0.14053333	0.2019100
## group_factorLichen Planus		-0.4024267	-0.10827667	-0.2353600
## group_factorPsoriasis Vulgaris		0.2398133	0.41276000	0.3220700
##		[,756]	[,757]	[,758]
## (Intercept)		-0.08172333	0.21709667	0.17689333
## group_factorContact Eczema		0.13234667	0.31478667	-0.06159333
## group_factorControl		0.05002333	0.02834667	-0.15242667
## group_factorLichen Planus		-0.17227000	0.19923333	-0.14028000
## group_factorPsoriasis Vulgaris		0.53789000	-0.43781000	-0.06940000
##		[,760]	[,761]	[,762]
## (Intercept)		0.4978200	-0.12397000	0.3774900
## group_factorContact Eczema		0.2189033	-0.14091667	-0.0663500
## group_factorControl		-0.4593700	0.17130000	-0.0323900
## group_factorLichen Planus		0.2519900	-0.04851333	0.1049200
## group_factorPsoriasis Vulgaris		0.1771633	0.20407000	-0.5941967

##		[,764]	[,765]	[,766]	[,767]
## (Intercept)		0.4682200	0.2734600	0.1217167	-0.68770333
## group_factorContact Eczema		0.1178167	-0.2906900	-0.6128733	-0.24710667
## group_factorControl		-0.4606700	0.1012833	-0.1542100	0.57840000
## group_factorLichen Planus		-0.3092467	-0.1436300	-0.1374567	-0.18738000
## group_factorPsoriasis Vulgaris		0.6726367	-0.4168367	0.8269433	0.04004333
##		[,768]	[,769]	[,770]	[,771]
## (Intercept)		-0.04195667	-0.29027000	3.1675633	0.8338400
## group_factorContact Eczema		-0.38876000	0.24290000	-0.1434500	-0.1558167
## group_factorControl		-0.15571333	0.25188333	-3.8306333	-0.9305700
## group_factorLichen Planus		0.14643667	-0.05953667	-0.5394067	0.0411600
## group_factorPsoriasis Vulgaris		-0.10881000	0.02070667	1.5173967	0.5939033
##		[,772]	[,773]	[,774]	[,775]
## (Intercept)		-0.23479667	0.1760400	-0.12304667	0.08651667
## group_factorContact Eczema		0.06984667	-0.2222700	-0.09525000	-0.18577000
## group_factorControl		0.20427667	-0.1183233	0.09006000	0.20835667
## group_factorLichen Planus		0.01363000	-0.2038633	-0.06902667	-0.07419667
## group_factorPsoriasis Vulgaris		0.08682000	0.4376133	-0.02557000	-0.52886000
##		[,776]	[,777]	[,778]	[,779]
## (Intercept)		0.22146000	0.53526000	-0.11258333	-0.01487333
## group_factorContact Eczema		-0.40372000	-0.22266333	0.04111333	-0.33831667
## group_factorControl		-0.22525333	-0.81879333	-0.10009333	-0.11814333
## group_factorLichen Planus		-0.01237333	0.01052667	-0.14181667	-0.30239333
## group_factorPsoriasis Vulgaris		0.20739667	0.13807000	0.12349667	0.07001333
##		[,780]	[,781]	[,782]	[,783]
## (Intercept)		0.21482667	-0.3317033	-0.23306333	-0.51598333
## group_factorContact Eczema		0.17016667	-0.4893367	0.01762667	-0.01925667
## group_factorControl		-0.42628667	0.2842367	0.11562667	0.47907000
## group_factorLichen Planus		-0.02077667	-0.1077700	-0.12570667	0.09645333
## group_factorPsoriasis Vulgaris		0.09062333	-0.1056700	0.32939333	-0.49524667
##		[,784]	[,785]	[,786]	[,787]
## (Intercept)		-0.34323000	-0.1794000	0.267596667	-0.25503000
## group_factorContact Eczema		-0.02198667	0.0313100	-0.157893333	-0.12431000
## group_factorControl		0.22113000	0.1412867	-0.280633333	0.35671000
## group_factorLichen Planus		-0.05209667	-0.0554100	0.006696667	-0.07475667
## group_factorPsoriasis Vulgaris		0.21136333	-0.0397900	0.259580000	0.06883000
##		[,788]	[,789]	[,790]	[,791]
## (Intercept)		-0.00913000	-0.16645333	-0.07164667	-0.09502667
## group_factorContact Eczema		0.58151333	0.15303333	0.10607000	-0.04690000
## group_factorControl		-0.04777000	-0.11887667	-0.07805333	-0.10632000
## group_factorLichen Planus		0.34437000	-0.23061333	-0.19669333	-0.21753667
## group_factorPsoriasis Vulgaris		-0.04274333	0.01009667	0.10854667	0.28047000
##		[,792]	[,793]	[,794]	[,795]
## (Intercept)		-0.07164667	-0.003353333	0.02422000	-0.04542333
## group_factorContact Eczema		-0.04813000	0.174880000	0.14469667	0.18211667
## group_factorControl		-0.87224667	0.045073333	-0.11294000	-0.12210333
## group_factorLichen Planus		-0.13139000	-0.052013333	-0.05870667	0.13320000
## group_factorPsoriasis Vulgaris		0.22923333	0.274606667	0.08226667	1.53073000
##		[,796]	[,797]	[,798]	[,799]
## (Intercept)		0.002596667	-0.17694000	0.8601600	-0.004553333
## group_factorContact Eczema		0.079353333	-0.05800667	0.2659633	-0.006116667
## group_factorControl		-0.072640000	0.10088667	-0.2208033	-0.119243333
## group_factorLichen Planus		-0.030910000	0.14911667	0.1130967	-0.053813333
## group_factorPsoriasis Vulgaris		0.266156667	0.16562667	-0.9213967	-0.014486667

##		[,800]	[,801]	[,802]	[,803]
## (Intercept)		-0.14503000	-0.03922667	0.17267000	-0.09157333
## group_factorContact Eczema		0.15693667	0.01412333	-0.04132333	-0.01620000
## group_factorControl		0.04083667	-0.32090333	-0.33117333	0.15374333
## group_factorLichen Planus		-0.01564667	-0.49172333	-0.10300333	0.07527000
## group_factorPsoriasis Vulgaris		0.42786667	0.11557333	0.05382000	-0.11823000
##		[,804]	[,805]	[,806]	[,807]
## (Intercept)		-0.21262667	0.007360000	-0.38505333	0.2465400
## group_factorContact Eczema		0.05484667	-0.009193333	-0.07709667	-0.1497600
## group_factorControl		0.19174667	-0.041803333	0.28096333	-0.4189267
## group_factorLichen Planus		-0.15424333	-0.134760000	-0.08697000	-0.3063067
## group_factorPsoriasis Vulgaris		0.05354000	0.298810000	0.45895667	0.3567400
##		[,808]	[,809]	[,810]	[,811]
## (Intercept)		-0.13173000	0.2665033	-0.02339333	-0.4673467
## group_factorContact Eczema		0.06229333	-0.1119967	-0.09245667	-0.2111867
## group_factorControl		0.11018333	-0.2524200	0.14120667	0.4698000
## group_factorLichen Planus		-0.10372667	-0.1001867	0.20067667	-0.0022700
## group_factorPsoriasis Vulgaris		-0.13203000	0.1337800	-0.02699667	0.3060133
##		[,812]	[,813]	[,814]	[,815]
## (Intercept)		0.05285667	-1.43395333	0.316890000	0.05322333
## group_factorContact Eczema		-0.13162000	0.33970667	0.108620000	0.00110000
## group_factorControl		0.06767000	0.87576667	-0.265166667	-0.20258333
## group_factorLichen Planus		-0.06755333	0.01986333	0.009956667	0.04916667
## group_factorPsoriasis Vulgaris		0.24445333	-0.28628667	-0.211913333	0.34101000
##		[,816]	[,817]	[,818]	[,819]
## (Intercept)		0.224056667	-0.123276667	-0.41273333	-0.2272900
## group_factorContact Eczema		-0.196746667	0.090756667	-0.11313667	-0.0479800
## group_factorControl		-0.199826667	0.293873333	0.03068000	0.2585233
## group_factorLichen Planus		0.221083333	-0.001056667	-0.08294333	-0.0826400
## group_factorPsoriasis Vulgaris		0.002626667	-0.345806667	0.25934000	-0.5573067
##		[,820]	[,821]	[,822]	[,823]
## (Intercept)		0.65418000	-0.23537000	0.0567400	-0.11752667
## group_factorContact Eczema		0.61073333	-0.07410667	-0.1983967	0.18870667
## group_factorControl		-0.62831667	-0.02132000	0.0050500	0.05828333
## group_factorLichen Planus		0.03363667	-0.37807667	-0.1932833	-0.09696667
## group_factorPsoriasis Vulgaris		-0.82664000	0.93748000	0.5355267	0.14509333
##		[,824]	[,825]	[,826]	[,827]
## (Intercept)		-1.6664200	-0.4407233	-1.9309067	0.2526033
## group_factorContact Eczema		0.6742833	0.1326500	0.5075400	-0.3325933
## group_factorControl		1.0000567	0.2804567	1.1921200	-0.3156767
## group_factorLichen Planus		-0.0922000	0.0095600	-0.0840000	-0.5222667
## group_factorPsoriasis Vulgaris		0.3351667	0.0562800	-0.1337867	-0.2044033
##		[,828]	[,829]	[,830]	[,831]
## (Intercept)		0.01521667	-0.19792667	0.18743333	0.3550367
## group_factorContact Eczema		-0.55281333	-0.22577000	0.27120333	-0.0649200
## group_factorControl		0.40045667	-0.03640333	-0.11638667	-0.1767233
## group_factorLichen Planus		-0.06968333	-0.32219333	0.02490667	0.2246733
## group_factorPsoriasis Vulgaris		-0.91131667	0.02326333	0.24797000	-0.4210333
##		[,832]	[,833]	[,834]	[,835]
## (Intercept)		-0.432170000	-0.05475000	0.14014667	0.03385667
## group_factorContact Eczema		0.008826667	0.15072667	-0.07530000	-0.12190333
## group_factorControl		0.443430000	0.04860667	-0.08033667	0.09664667
## group_factorLichen Planus		0.145410000	0.01644667	0.08037000	-0.28822667
## group_factorPsoriasis Vulgaris		0.253320000	0.17700333	-0.23635333	-0.23525667

##		[,836]	[,837]	[,838]	[,839]
## (Intercept)		-0.93207667	0.01922333	0.054160000	0.5970367
## group_factorContact Eczema		0.32265667	0.22061333	-0.143250000	0.6669800
## group_factorControl		0.42666000	0.20344000	0.011760000	-0.3963633
## group_factorLichen Planus		-0.40529000	0.20218000	-0.197923333	0.4919233
## group_factorPsoriasis Vulgaris		-0.07883333	0.06355667	0.005336667	-0.6790000
##		[,840]	[,841]	[,842]	[,843]
## (Intercept)		-0.04664667	-0.14110667	0.1500067	0.0595100
## group_factorContact Eczema		0.01645333	0.09589000	-0.3693567	-0.2934533
## group_factorControl		0.02130667	0.40455333	-0.1842367	-0.4300100
## group_factorLichen Planus		-0.01749333	-0.05001333	-0.5123200	-0.4052633
## group_factorPsoriasis Vulgaris		-0.11507333	-0.17589333	0.4114267	0.4164033
##		[,844]	[,845]	[,846]	[,847]
## (Intercept)		-0.2508533	-0.2745133	0.03569000	-0.4622700
## group_factorContact Eczema		0.0178000	0.0326800	-0.06771667	-0.1300967
## group_factorControl		0.4167367	-0.0184400	-0.01857667	0.2192333
## group_factorLichen Planus		0.3362967	-0.0863700	-0.22288000	-0.2242200
## group_factorPsoriasis Vulgaris		0.3342633	0.3130467	-0.07271667	0.1901900
##		[,848]	[,849]	[,850]	[,851]
## (Intercept)		-0.3435067	0.03451333	-0.03188000	-0.16485000
## group_factorContact Eczema		0.0080900	0.15606333	-0.07552000	0.05652333
## group_factorControl		0.3354600	-0.06903333	0.07670000	0.28890000
## group_factorLichen Planus		-0.2667067	-0.22965667	0.03589667	0.15661667
## group_factorPsoriasis Vulgaris		-0.1398000	0.32162333	0.30081000	0.12059333
##		[,852]	[,853]	[,854]	[,855]
## (Intercept)		-1.48167667	0.2857800	0.24347333	-0.237046667
## group_factorContact Eczema		0.42828333	0.5981767	-0.24802000	0.005693333
## group_factorControl		0.89137333	-0.3216700	-0.66979333	0.257916667
## group_factorLichen Planus		0.09847333	1.0512800	-0.09054667	0.049783333
## group_factorPsoriasis Vulgaris		-0.57750333	-0.4096600	0.59688000	0.149986667
##		[,856]	[,857]	[,858]	[,859]
## (Intercept)		-0.003163333	0.13798333	0.13847000	0.04593000
## group_factorContact Eczema		0.101250000	-0.04635333	0.11232667	-0.26377667
## group_factorControl		0.135756667	-0.14399333	-0.25440333	-0.02971667
## group_factorLichen Planus		0.172893333	-0.01696000	0.03088667	-0.36698333
## group_factorPsoriasis Vulgaris		-0.338296667	-0.02170000	-0.10897333	0.37739667
##		[,860]	[,861]	[,862]	[,863]
## (Intercept)		0.02844333	-0.2127700	0.27637333	-0.2648933
## group_factorContact Eczema		-0.22848667	-0.0045800	0.05722000	-0.0181000
## group_factorControl		0.02505333	0.1024967	0.17388667	0.1966600
## group_factorLichen Planus		-0.19848667	0.0650200	0.03631667	0.0707100
## group_factorPsoriasis Vulgaris		-0.09512000	0.3948033	-0.35142667	0.2868167
##		[,864]	[,865]	[,866]	[,867]
## (Intercept)		0.02945000	0.13095333	0.22869000	-0.15876333
## group_factorContact Eczema		-0.07428333	-0.14069333	0.06290667	0.04598333
## group_factorControl		0.09472667	-0.03011000	-0.17813667	0.21592000
## group_factorLichen Planus		0.03150667	-0.06865333	-0.20785333	-0.04874667
## group_factorPsoriasis Vulgaris		0.05369667	-0.14814667	-0.02209667	0.06637000
##		[,868]	[,869]	[,870]	[,871]
## (Intercept)		0.124216667	0.06752667	0.3626667	0.03507000
## group_factorContact Eczema		-0.002203333	0.18426333	0.1369600	0.11889667
## group_factorControl		-0.059653333	-0.05202333	-0.2231433	0.03075333
## group_factorLichen Planus		-0.066300000	0.00049000	-0.0290300	-0.12437333
## group_factorPsoriasis Vulgaris		-0.020350000	0.32966667	-0.2314233	-0.14406667

##		[,872]	[,873]	[,874]	[,875]
## (Intercept)		-0.16526667	-0.42239667	0.5463500	0.1888767
## group_factorContact Eczema		0.32604333	-0.09871333	-0.3977067	0.3301333
## group_factorControl		-0.37937333	0.21216333	-0.0743200	-0.0539000
## group_factorLichen Planus		-0.06548333	-0.17766333	-0.2805167	0.0466900
## group_factorPsoriasis Vulgaris		0.43543000	0.40568333	-0.5109500	-0.2260467
##		[,876]	[,877]	[,878]	[,879]
## (Intercept)		-0.02729333	-0.23332000	0.1745000	0.2536333
## group_factorContact Eczema		0.13921333	-0.18185333	-0.1192267	-0.2373567
## group_factorControl		0.30871333	-0.09878333	-0.1058600	-0.1802533
## group_factorLichen Planus		0.02957000	-0.13778667	0.1061700	-0.2932500
## group_factorPsoriasis Vulgaris		-0.12229667	0.90321000	-0.3877600	-0.1829667
##		[,880]	[,881]	[,882]	[,883]
## (Intercept)		-0.00922667	0.2891500	0.26259667	-0.2106933
## group_factorContact Eczema		-0.22842667	-0.1182633	-0.13184333	0.2295533
## group_factorControl		0.06564667	-0.3182767	-0.07067333	0.3750467
## group_factorLichen Planus		-0.143893333	0.0459100	-0.06521667	0.1011200
## group_factorPsoriasis Vulgaris		0.429776667	-0.0069000	-0.09340667	-0.0871400
##		[,884]	[,885]	[,886]	[,887]
## (Intercept)		-0.33481667	-1.6003833	-0.29503000	-0.2106567
## group_factorContact Eczema		-0.45540667	-0.8938100	-0.06397333	0.1875833
## group_factorControl		0.13966667	1.4779533	0.15503667	0.1743233
## group_factorLichen Planus		0.01835667	1.2273433	-0.11603333	0.2095400
## group_factorPsoriasis Vulgaris		0.08527667	0.1210067	0.05137000	0.3890200
##		[,888]	[,889]	[,890]	[,891]
## (Intercept)		-0.349093333	-1.3959567	3.0673400	-0.6300533
## group_factorContact Eczema		-0.082723333	-0.3868100	-0.1957500	-0.2083433
## group_factorControl		0.388283333	1.2168067	-3.5030467	0.8556333
## group_factorLichen Planus		-0.005123333	-0.9688400	0.2800867	0.0310100
## group_factorPsoriasis Vulgaris		0.025103333	-0.4812333	0.7061333	-0.5603700
##		[,892]	[,893]	[,894]	[,895]
## (Intercept)		-0.8895133	0.03029333	0.003513333	2.3386267
## group_factorContact Eczema		-0.6969767	-2.12845333	-1.093886667	-0.4270333
## group_factorControl		1.0583467	0.70018000	0.296433333	-3.3587367
## group_factorLichen Planus		-0.2005500	0.81030667	0.133886667	0.5203767
## group_factorPsoriasis Vulgaris		-0.6005333	-1.16603000	-0.039470000	1.6691533
##		[,896]	[,897]	[,898]	[,899]
## (Intercept)		-0.5910333	-0.4928233	-0.07535000	-0.59861000
## group_factorContact Eczema		-0.5695633	-0.3606867	-0.43236667	-0.43334667
## group_factorControl		0.7962967	0.7329033	-0.04918333	0.64523667
## group_factorLichen Planus		-0.4731900	-0.1463800	-0.04466667	-0.84522667
## group_factorPsoriasis Vulgaris		-1.0386067	-0.7075133	0.10452667	0.02281333
##		[,900]	[,901]	[,902]	[,903]
## (Intercept)		0.05296000	0.2995367	-0.00599000	0.1773500
## group_factorContact Eczema		-0.02295667	-0.0909500	-0.07863667	-0.1084067
## group_factorControl		-0.06862667	-0.2584300	0.10948333	-0.3172033
## group_factorLichen Planus		-0.08603000	-0.2645867	0.09727333	-0.3231333
## group_factorPsoriasis Vulgaris		0.13633333	0.2144633	0.34488333	-0.1511900
##		[,904]	[,905]	[,906]	[,907]
## (Intercept)		-0.2453200	0.2300400	0.237810000	0.023830000
## group_factorContact Eczema		0.0032700	-0.7888767	-0.004036667	0.005833333
## group_factorControl		0.3642467	0.2083800	-0.726356667	-0.061703333
## group_factorLichen Planus		-0.1795633	0.4528300	0.265320000	0.178393333
## group_factorPsoriasis Vulgaris		0.0635700	-0.4617367	0.147956667	0.125273333

##		[,908]	[,909]	[,910]	[,911]
## (Intercept)		-0.27477667	0.5452333	0.3569867	0.06452667
## group_factorContact Eczema		0.54723000	-0.2676800	0.2155667	-0.42514667
## group_factorControl		-0.22783667	-1.0239900	-0.3579167	-0.02666000
## group_factorLichen Planus		-0.01516667	-0.6267233	0.1916133	-0.42869667
## group_factorPsoriasis Vulgaris		0.68723000	-0.0404600	0.2894567	-0.17466667
##		[,912]	[,913]	[,914]	[,915]
## (Intercept)		-0.04342333	-0.1203133	0.3798267	-0.28132333
## group_factorContact Eczema		-0.25820333	-0.1692500	0.0042900	-0.07936333
## group_factorControl		0.17034667	0.1703867	-0.1221733	0.19315333
## group_factorLichen Planus		0.03258000	-0.1760767	0.0568100	0.13303000
## group_factorPsoriasis Vulgaris		0.01458667	0.2562533	-0.5866900	0.15291000
##		[,916]	[,917]	[,918]	[,919]
## (Intercept)		0.24535667	0.59699667	0.2161200	0.15781000
## group_factorContact Eczema		-0.27810667	-1.15348333	0.1334933	0.04484667
## group_factorControl		0.07915667	-0.51712667	-0.1457233	-0.15462667
## group_factorLichen Planus		0.41667667	-0.63336000	-0.0294500	-0.27485333
## group_factorPsoriasis Vulgaris		-0.39637667	0.02170667	-0.0270800	-0.03951333
##		[,920]	[,921]	[,922]	[,923]
## (Intercept)		0.4417700	-0.2612633	0.24171333	0.06760000
## group_factorContact Eczema		-0.4302300	-0.2905033	-0.03151667	0.54359333
## group_factorControl		-0.4759767	0.2735967	-0.13504000	-0.02773333
## group_factorLichen Planus		-0.4597667	-0.1650433	-0.09332333	-0.32760000
## group_factorPsoriasis Vulgaris		1.4261900	-0.4445967	0.27152667	1.02770667
##		[,924]	[,925]	[,926]	[,927]
## (Intercept)		-0.4734100	-1.13642667	0.26363333	-0.4731533
## group_factorContact Eczema		-0.3027467	0.21923667	-0.27421000	-0.0966400
## group_factorControl		0.1354200	0.90951000	-0.02122333	0.4194400
## group_factorLichen Planus		-0.1304033	-0.01308333	-0.13689667	-0.5514667
## group_factorPsoriasis Vulgaris		1.0110933	0.08856667	0.34339000	0.4529033
##		[,928]	[,929]	[,930]	[,931]
## (Intercept)		0.07923333	-0.3497867	0.17914667	0.8114800
## group_factorContact Eczema		-0.04670667	-0.2356867	-0.06029000	-0.4453700
## group_factorControl		0.04481333	0.3357500	-0.31583667	-0.8969033
## group_factorLichen Planus		-0.17349000	-0.3092300	-0.07562333	-0.2481400
## group_factorPsoriasis Vulgaris		-0.05261333	0.1414667	0.10127000	0.1421400
##		[,932]	[,933]	[,934]	[,935]
## (Intercept)		-0.27373667	-0.0512600	-0.07049000	-0.5077233
## group_factorContact Eczema		-0.26012000	0.3567633	-0.05313667	-0.3814533
## group_factorControl		0.32714000	-0.2015433	0.12863667	0.3243000
## group_factorLichen Planus		0.08237333	0.0875600	0.02491333	-0.1309533
## group_factorPsoriasis Vulgaris		-0.63280333	-0.0285500	0.31661333	0.2565033
##		[,936]	[,937]	[,938]	[,939]
## (Intercept)		0.035300000	0.1485433	-0.05354000	0.50543
## group_factorContact Eczema		0.124780000	0.1931033	0.12492667	0.28431
## group_factorControl		0.013020000	-0.1711100	-0.01805667	0.11501
## group_factorLichen Planus		0.009363333	0.0994600	0.02344667	0.00454
## group_factorPsoriasis Vulgaris		0.051206667	-0.0430000	-0.25420333	-1.62764
##		[,940]	[,941]	[,942]	[,943]
## (Intercept)		0.24323333	-0.20350667	0.13203333	0.079173333
## group_factorContact Eczema		0.05791333	-0.11915000	-0.02707333	-0.186436667
## group_factorControl		-0.12119000	0.22179333	-0.07334000	0.008383333
## group_factorLichen Planus		-0.04501667	-0.14414667	0.18434333	-0.077000000
## group_factorPsoriasis Vulgaris		-0.53392000	0.09544333	0.06534000	0.023206667

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##          [,944]      [,945]      [,946]      [,947]
## (Intercept)      -0.1956200 -0.3736300  2.1860800  0.6668400
## group_factorContact Eczema      0.0884900 -0.2095567 -0.6502167  0.1593433
## group_factorControl      0.2609133  0.3705233 -2.4234467 -0.5609200
## group_factorLichen Planus      0.5258533  0.1084333 -0.5687300 -0.1221600
## group_factorPsoriasis Vulgaris -0.2598000  0.1285500  1.0303200  0.1201667
##          [,948]      [,949]      [,950]      [,951]
## (Intercept)      0.00085000 -0.3183767  0.494980000 -0.03514333
## group_factorContact Eczema      0.08871333 -0.2131633 -0.009986667 -0.49834000
## group_factorControl      0.11523667 -0.0256700 -0.504910000  0.22456000
## group_factorLichen Planus      0.03819667 -0.2475033 -0.320690000  0.01055333
## group_factorPsoriasis Vulgaris -0.04280000  0.1106467  0.117543333 -0.44250333
##          [,952]      [,953]      [,954]      [,955]
## (Intercept)      -0.42758000  0.179076667  0.2012167 -0.1313633
## group_factorContact Eczema      0.15305667 -0.003443333 -0.0032300  0.2480100
## group_factorControl      0.52238000 -0.098456667 -0.1525433 -0.1982100
## group_factorLichen Planus      0.02876000 -0.050926667 -0.2061500 -0.4400600
## group_factorPsoriasis Vulgaris -0.03172667 -0.403060000 -0.1328067  1.4495067
##          [,956]      [,957]      [,958]      [,959]
## (Intercept)      0.3139933  0.17553333  1.28301000 -0.06631333
## group_factorContact Eczema      0.3025400  0.10949000 -0.05221333  0.23423000
## group_factorControl      -0.0579500 -0.46624333 -1.41878333  0.05280667
## group_factorLichen Planus      0.0178700 -0.07703667  0.63861000 -0.23956667
## group_factorPsoriasis Vulgaris -0.3562333  0.62039667 -0.99853667 -0.10519333
##          [,960]      [,961]      [,962]      [,963]
## (Intercept)      -0.34125333  0.1266433 -0.101016667 -0.506563333
## group_factorContact Eczema      0.01462667 -0.5199467 -0.003150000 -0.055340000
## group_factorControl      0.18663333 -0.2873667 -0.079586667  0.218836667
## group_factorLichen Planus      0.04840000 -0.4918633 -0.002026667 -0.001446667
## group_factorPsoriasis Vulgaris  0.57835000  0.5427767  0.509786667  0.297726667
##          [,964]      [,965]      [,966]      [,967]
## (Intercept)      0.06266667  0.25317667  4.690000e-03 -0.2182367
## group_factorContact Eczema      0.19164333 -0.02658667  9.333333e-05 -0.1498267
## group_factorControl      0.07699000 -0.28431000 -6.896000e-02  0.1341100
## group_factorLichen Planus      -0.00964000 -0.27524000  7.520000e-02 -0.1256400
## group_factorPsoriasis Vulgaris -0.25751667  0.06279333  2.352267e-01  0.0973900
##          [,968]      [,969]      [,970]      [,971]
## (Intercept)      -0.107943333 -0.07698333  0.19475000  0.0197100
## group_factorContact Eczema      0.210543333  0.16155667  0.09008667 -0.1130767
## group_factorControl      0.096273333  0.05877667 -0.29513333 -0.0162100
## group_factorLichen Planus      0.009936667 -0.02910333  0.36929333 -0.1188533
## group_factorPsoriasis Vulgaris  0.410150000  0.05038333 -0.14442667  0.2511933
##          [,972]      [,973]      [,974]
## (Intercept)      -0.26624333 -0.11377333  0.006826667
## group_factorContact Eczema      -0.05205333 -0.12856667  0.165013333
## group_factorControl      0.39086667  0.03745333  0.083410000
## group_factorLichen Planus      -0.10243000  0.04837667 -0.057630000
## group_factorPsoriasis Vulgaris  0.11747667  0.28854667  0.122953333
##          [,975]      [,976]      [,977]      [,978]
## (Intercept)      0.268343333  0.3998733 -0.5846000  0.14531333
## group_factorContact Eczema      -0.015833333  0.5840233 -0.5273800 -0.21833000
## group_factorControl      -0.255653333 -0.5255633  0.9668900 -0.08770333
## group_factorLichen Planus      -0.328986667  0.3045367 -0.2349067 -0.36939333
## group_factorPsoriasis Vulgaris  0.004563333  0.0079300  0.3602267  0.06703667

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##		[,979]	[,980]	[,981]	[,982]
## (Intercept)		0.2692800	-0.23247667	-0.152870000	0.7562533
## group_factorContact Eczema		-0.0354600	0.07619000	0.109010000	-1.4923167
## group_factorControl		-0.2556167	0.11704000	-0.041590000	-0.7496500
## group_factorLichen Planus		-0.2561267	-0.10316000	0.002953333	0.2917767
## group_factorPsoriasis Vulgaris		0.2337733	0.02481333	0.170606667	0.0673000
##		[,983]	[,984]	[,985]	[,986]
## (Intercept)		0.13263000	0.2049767	0.000860000	0.22056667
## group_factorContact Eczema		0.06810667	-0.0437700	-0.253176667	-0.01883667
## group_factorControl		0.59480667	-0.3604200	0.002806667	-0.39416333
## group_factorLichen Planus		0.35907333	0.3431367	-0.384496667	-0.10241333
## group_factorPsoriasis Vulgaris		-1.11036667	0.1959433	0.214396667	0.46705667
##		[,987]	[,988]	[,989]	[,990]
## (Intercept)		0.11062333	-0.34324333	-0.04838667	0.4631067
## group_factorContact Eczema		0.03429667	-0.10148667	0.36413333	-0.0899100
## group_factorControl		-0.03189333	0.40916667	-0.01382333	-0.4972967
## group_factorLichen Planus		-0.37195000	-0.07104667	0.06524667	0.6778867
## group_factorPsoriasis Vulgaris		-0.16486667	-0.12622333	-0.04215000	-0.5938400
##		[,991]	[,992]	[,993]	[,994]
## (Intercept)		-0.02410333	0.585343333	0.8520967	0.30852667
## group_factorContact Eczema		-0.10842667	-0.136726667	0.2420933	-0.19856667
## group_factorControl		-0.23357000	-0.009076667	-1.5411000	-0.02395333
## group_factorLichen Planus		-0.22681667	-0.134990000	0.3382800	-0.45085333
## group_factorPsoriasis Vulgaris		0.33702667	-0.528343333	1.2827333	0.16565667
##		[,995]	[,996]	[,997]	[,998]
## (Intercept)		-0.2245533	-0.10945000	0.36907333	0.21981000
## group_factorContact Eczema		0.2297800	0.20856333	-0.08734667	0.42636000
## group_factorControl		-0.0668200	0.12234667	-0.54718333	0.24973333
## group_factorLichen Planus		0.5922567	0.29100000	-0.43376333	0.08843667
## group_factorPsoriasis Vulgaris		0.7240933	0.03791333	0.87492667	-0.72824667
##		[,999]	[,1000]	[,1001]	[,1002]
## (Intercept)		-0.07179667	-0.484503333	-0.14252667	0.01899333
## group_factorContact Eczema		-0.04893000	0.005396667	0.02552667	-0.05082000
## group_factorControl		0.19942333	0.727936667	0.13194000	0.04297000
## group_factorLichen Planus		-0.12133333	-0.100460000	-0.05054333	-0.06406000
## group_factorPsoriasis Vulgaris		-0.33206333	-0.185326667	0.13978000	-0.26720333
##		[,1003]	[,1004]	[,1005]	[,1006]
## (Intercept)		0.437053333	1.5595733	-0.08112333	-0.18395333
## group_factorContact Eczema		-0.177363333	-0.2596767	0.01359333	-0.01204667
## group_factorControl		-0.399266667	-1.9630533	0.30358000	0.09229667
## group_factorLichen Planus		-0.008426667	0.0591000	-0.06677000	-0.12787000
## group_factorPsoriasis Vulgaris		-0.432143333	0.6407000	-0.23152667	-0.05274333
##		[,1007]	[,1008]	[,1009]	[,1010]
## (Intercept)		-0.3518567	0.2179633	-0.05603333	-0.5369700
## group_factorContact Eczema		-0.0168300	-0.2014467	-0.09586667	-0.2421233
## group_factorControl		0.0942700	0.0960300	0.38834667	0.1100633
## group_factorLichen Planus		-0.2347467	0.0155700	0.21069333	-0.1587067
## group_factorPsoriasis Vulgaris		0.3617933	-0.6471067	-0.14604333	0.4840167
##		[,1011]	[,1012]	[,1013]	[,1014]
## (Intercept)		-0.26337667	-0.33493667	-0.06201000	0.33385333
## group_factorContact Eczema		-0.01318333	-0.05985333	-0.02037333	-0.29851667
## group_factorControl		0.21758000	0.60899333	0.24033333	-0.13978667
## group_factorLichen Planus		-0.03913333	-0.06608667	-0.02792000	0.06179333
## group_factorPsoriasis Vulgaris		0.06084333	-0.64515667	-0.11988000	-0.81285000

##		[,1015]	[,1016]	[,1017]	[,1018]
## (Intercept)		-0.09203333	-0.1605800	0.008153333	-0.38504667
## group_factorContact Eczema		-0.24471000	0.1248267	-0.050370000	0.02476667
## group_factorControl		0.17206333	0.1263133	0.147376667	0.24874000
## group_factorLichen Planus		-0.23309000	0.2059500	0.198426667	0.04355000
## group_factorPsoriasis Vulgaris		0.67638000	0.5767467	-0.441473333	-0.19679333
##		[,1019]	[,1020]	[,1021]	[,1022]
## (Intercept)		-0.2554167	0.2113400	-0.5389500	-0.3774200
## group_factorContact Eczema		-0.2457733	0.4028400	-0.3905433	-0.1683500
## group_factorControl		0.6320167	-0.2806867	0.2536933	0.2595667
## group_factorLichen Planus		0.2831733	0.2237033	0.0769500	-0.1001533
## group_factorPsoriasis Vulgaris		-0.1106400	-0.2807500	0.3046167	0.4844867
##		[,1023]	[,1024]	[,1025]	[,1026]
## (Intercept)		-0.04622667	-0.06651333	-0.63545333	-0.38589000
## group_factorContact Eczema		-0.20114000	-0.10867000	0.03768667	0.29585000
## group_factorControl		0.07032667	0.15494667	1.01222667	0.33929667
## group_factorLichen Planus		-0.02392667	0.07233000	0.67795667	0.09569333
## group_factorPsoriasis Vulgaris		-0.11023000	0.03867333	0.47342667	0.26013333
##		[,1027]	[,1028]	[,1029]	[,1030]
## (Intercept)		0.3695300	0.02351333	-0.558733333	0.250916667
## group_factorContact Eczema		0.1212733	0.15756000	-0.006123333	-0.267593333
## group_factorControl		-0.5602433	0.33210667	0.240543333	-0.164146667
## group_factorLichen Planus		-0.2112400	0.02344333	-0.150610000	0.001133333
## group_factorPsoriasis Vulgaris		0.1734433	0.01392667	0.451033333	0.082113333
##		[,1031]	[,1032]	[,1033]	[,1034]
## (Intercept)		1.0497633	-0.2334667	-0.13450333	-0.05174667
## group_factorContact Eczema		0.4532700	-0.3865833	0.23519333	0.11236667
## group_factorControl		-0.9016333	0.0257100	0.14589333	-0.31398000
## group_factorLichen Planus		-0.3555233	-0.1269500	0.06990667	-0.05006333
## group_factorPsoriasis Vulgaris		-0.3833367	0.4319733	-0.15820667	0.03933000
##		[,1035]	[,1036]	[,1037]	[,1038]
## (Intercept)		-0.34388667	-0.22938667	-0.36418333	-0.06690667
## group_factorContact Eczema		-0.09388667	0.04808667	-0.29300000	0.43631667
## group_factorControl		0.25033000	0.12578667	0.42223333	-0.07228667
## group_factorLichen Planus		0.09799000	-0.08905000	-0.05127000	0.24301333
## group_factorPsoriasis Vulgaris		0.28799333	-0.02669000	-0.07529333	-0.01083667
##		[,1039]	[,1040]	[,1041]	[,1042]
## (Intercept)		-0.40025000	0.05014000	-0.04954000	-0.13247667
## group_factorContact Eczema		-0.06788667	0.12011333	-0.01492333	-0.10495667
## group_factorControl		0.28297333	-0.09355333	-0.02977000	0.18808667
## group_factorLichen Planus		0.05567333	-0.13679000	0.03223333	-0.27795000
## group_factorPsoriasis Vulgaris		0.39106333	0.36215667	0.10846333	-0.02739667
##		[,1043]	[,1044]	[,1045]	[,1046]
## (Intercept)		-0.7424367	-0.078726667	0.3631867	0.153420000
## group_factorContact Eczema		-0.4270633	-0.006733333	0.1955633	-0.346283333
## group_factorControl		0.6366600	0.006900000	-0.3139133	0.006553333
## group_factorLichen Planus		0.2217667	0.106143333	0.3113767	-0.423716667
## group_factorPsoriasis Vulgaris		0.2143667	-0.461390000	-0.7901667	-0.202200000
##		[,1047]	[,1048]	[,1049]	[,1050]
## (Intercept)		-0.47720333	0.23713000	0.03839667	0.11824000
## group_factorContact Eczema		-0.21173000	0.11813000	-0.18781000	-0.06599333
## group_factorControl		0.56387333	-0.16205333	0.33241000	0.04876667
## group_factorLichen Planus		0.07743333	0.03945333	-0.17607000	-0.11506000
## group_factorPsoriasis Vulgaris		-0.27195000	-0.37881667	-0.66305333	-0.07096667

##		[,1051]	[,1052]	[,1053]	[,1054]
## (Intercept)		-0.12198000	0.2592833	-0.81534000	-1.6408233
## group_factorContact Eczema		0.24106333	-0.5830600	-0.04390333	-0.1820533
## group_factorControl		0.17321000	-0.4764400	0.45417667	2.0996833
## group_factorLichen Planus		0.11430667	-0.4051033	-0.83969000	0.5077000
## group_factorPsoriasis Vulgaris		0.02246333	0.7763067	0.41994333	-0.1319800
##		[,1055]	[,1056]	[,1057]	[,1058]
## (Intercept)		0.5118067	0.6914600	0.09397333	0.1319233
## group_factorContact Eczema		0.5193933	-0.3241600	-0.42235667	0.2491933
## group_factorControl		-0.5758300	-0.8774300	-0.00361000	-0.2715433
## group_factorLichen Planus		0.3041667	-0.4198333	-0.03403667	0.5099067
## group_factorPsoriasis Vulgaris		0.7905600	1.2011733	0.35254333	0.6908067
##		[,1059]	[,1060]	[,1061]	[,1062]
## (Intercept)		-0.08744667	-0.1495267	-0.4825633	0.06610000
## group_factorContact Eczema		0.00533000	-1.0708933	-0.5034133	-0.04871333
## group_factorControl		0.08833333	0.2407167	0.2820333	-0.13100000
## group_factorLichen Planus		-0.06993000	-0.1411533	-0.1624667	0.35734667
## group_factorPsoriasis Vulgaris		-0.03168667	-0.8507233	1.3021267	-0.18254000
##		[,1063]	[,1064]	[,1065]	[,1066]
## (Intercept)		0.1467867	0.09204000	0.2896700	0.27670333
## group_factorContact Eczema		-0.2563100	0.06804667	-0.2101900	-0.21878333
## group_factorControl		-0.2043700	-0.01514333	-0.2140767	-0.26307667
## group_factorLichen Planus		-0.0198200	0.13594667	-0.4037767	-0.34488000
## group_factorPsoriasis Vulgaris		0.2696267	-0.05494333	-0.3679700	0.09610333
##		[,1067]	[,1068]	[,1069]	[,1070]
## (Intercept)		-0.0176400	0.5071267	0.8194233	0.4014433
## group_factorContact Eczema		0.4114100	0.8282833	0.5300533	-0.4803167
## group_factorControl		-0.1756633	-0.6156633	-0.7804833	-0.3318033
## group_factorLichen Planus		0.1616633	0.9193333	0.8671433	-0.4559000
## group_factorPsoriasis Vulgaris		1.0702300	1.0697033	1.2354200	0.4325100
##		[,1071]	[,1072]	[,1073]	[,1074]
## (Intercept)		-0.06090000	0.1884567	-0.4269433	-0.2062833
## group_factorContact Eczema		-0.67431667	-0.5344700	-0.0250800	0.2034167
## group_factorControl		0.29507667	-0.1147033	0.4957667	0.3580100
## group_factorLichen Planus		-0.09026333	-0.3677467	-0.1302067	0.5244833
## group_factorPsoriasis Vulgaris		0.01231667	0.4590267	0.2347100	1.0740433
##		[,1075]	[,1076]	[,1077]	[,1078]
## (Intercept)		1.0354133	-1.26294667	-3.12522667	0.3207633
## group_factorContact Eczema		-0.6963633	0.19585333	0.72457667	0.2237233
## group_factorControl		-1.2703567	0.69617333	1.97051000	-0.4748767
## group_factorLichen Planus		-0.9267933	-0.27927000	-0.22385000	-0.0500300
## group_factorPsoriasis Vulgaris		0.1962033	-0.09271333	-0.01691667	0.4692667
##		[,1079]	[,1080]	[,1081]	[,1082]
## (Intercept)		0.3727433	-0.3028933	0.29676000	-0.06811667
## group_factorContact Eczema		0.1574200	-0.3182900	0.09460667	-0.28747333
## group_factorControl		-0.2153467	0.1087133	-0.49450333	-0.05304333
## group_factorLichen Planus		-0.1094967	-0.3120033	-0.01539667	-0.14280000
## group_factorPsoriasis Vulgaris		-0.2724700	0.2555300	0.24854000	0.54005000
##		[,1083]	[,1084]	[,1085]	[,1086]
## (Intercept)		0.23561000	0.02098667	0.05827667	0.26236000
## group_factorContact Eczema		0.00930000	0.16121333	-0.15255000	-0.38340333
## group_factorControl		-0.86996333	0.00465000	0.13310667	-0.04356667
## group_factorLichen Planus		-0.24212000	0.26259667	-0.15771667	-0.33865000
## group_factorPsoriasis Vulgaris		0.06968333	-0.56502000	-0.19145667	-0.06885667

##		[,1087]	[,1088]	[,1089]	[,1090]
## (Intercept)		0.01778333	-0.13079667	-0.45783000	0.14354333
## group_factorContact Eczema		0.01593667	-0.21828000	0.30860667	-0.21597000
## group_factorControl		-0.04091667	-0.01250667	0.01758333	-0.11532667
## group_factorLichen Planus		-0.16725667	-0.30491000	1.03036333	-0.03295333
## group_factorPsoriasis Vulgaris		-0.14092667	0.37056667	1.19312333	-0.07623667
##		[,1091]	[,1092]	[,1093]	[,1094]
## (Intercept)		0.7530667	0.001260000	0.15372333	0.2552733
## group_factorContact Eczema		-0.7321500	-0.03226667	0.03767667	-0.4989167
## group_factorControl		-0.3696933	-0.002763333	-0.16414667	-0.2879800
## group_factorLichen Planus		-0.6702167	-0.105143333	0.32923333	-0.0435300
## group_factorPsoriasis Vulgaris		-0.2745333	0.124900000	1.05409000	0.4156567
##		[,1095]	[,1096]	[,1097]	[,1098]
## (Intercept)		0.072396667	0.19121667	-0.05294000	0.4919433
## group_factorContact Eczema		-0.238470000	-0.62437333	-0.14725000	0.2082400
## group_factorControl		0.101180000	0.04610333	-0.01099333	-0.5179433
## group_factorLichen Planus		-0.250620000	-0.32393000	-0.27811000	0.2699233
## group_factorPsoriasis Vulgaris		0.007653333	0.34279333	0.44342667	-0.0669900
##		[,1099]	[,1100]	[,1101]	[,1102]
## (Intercept)		0.3039967	-0.0294300	0.09003333	0.5231333
## group_factorContact Eczema		-0.2699800	-0.1622800	-0.09086000	-0.1367100
## group_factorControl		-0.2756133	0.1025633	0.12985000	-0.2821100
## group_factorLichen Planus		0.6020000	-0.1953067	0.21888333	-0.2952800
## group_factorPsoriasis Vulgaris		-0.2037733	0.2346100	0.07231000	-0.6597933
##		[,1103]	[,1104]	[,1105]	[,1106]
## (Intercept)		-0.03271000	0.08833333	-0.14205333	0.05062333
## group_factorContact Eczema		-0.12176000	-0.06893667	-0.30554667	-0.15466000
## group_factorControl		-0.10433000	-0.23848333	0.35679333	0.09674000
## group_factorLichen Planus		0.07991333	-0.11637333	0.05295333	0.08364667
## group_factorPsoriasis Vulgaris		0.46006667	0.01333333	-0.12603333	-0.37470000
##		[,1107]	[,1108]	[,1109]	[,1110]
## (Intercept)		-0.05921667	0.02153667	0.628193333	0.064980000
## group_factorContact Eczema		-0.22075667	-0.54168333	0.331770000	0.155106667
## group_factorControl		-0.02725000	-0.10085000	-0.829113333	0.009053333
## group_factorLichen Planus		0.01283000	0.24339000	-0.008733333	0.156696667
## group_factorPsoriasis Vulgaris		0.64296000	-0.01528333	0.131373333	0.036570000
##		[,1111]	[,1112]	[,1113]	[,1114]
## (Intercept)		-0.1777400	0.1433000	-0.07334000	0.005186667
## group_factorContact Eczema		0.1844933	0.2534567	-0.12977667	-0.660963333
## group_factorControl		-0.0052600	-0.1123600	-0.01885333	-0.123353333
## group_factorLichen Planus		0.1484100	0.1925133	-0.03951000	0.211430000
## group_factorPsoriasis Vulgaris		-0.0279700	0.0249700	0.13431667	1.496003333
##		[,1115]	[,1116]	[,1117]	[,1118]
## (Intercept)		0.2598033	-0.08880667	0.22084667	0.2804767
## group_factorContact Eczema		-0.1471933	0.09232333	-0.30524333	0.1054633
## group_factorControl		-0.1509667	-0.19361333	-0.06848333	-0.3263900
## group_factorLichen Planus		-0.2736700	0.22085333	-0.26096000	0.2945967
## group_factorPsoriasis Vulgaris		0.0933900	0.36832000	0.08768333	-0.5709200
##		[,1119]	[,1120]	[,1121]	[,1122]
## (Intercept)		0.2081100	0.19748000	-0.18922333	-0.100146667
## group_factorContact Eczema		-0.3291733	-0.19811333	-0.29319667	0.005346667
## group_factorControl		-0.1706000	-0.07721333	0.03969333	-0.097933333
## group_factorLichen Planus		-0.2058767	-0.23549000	0.12363000	-0.053290000
## group_factorPsoriasis Vulgaris		0.7669233	0.84407667	0.75992333	0.319896667

##		[,1123]	[,1124]	[,1125]	[,1126]
## (Intercept)		0.6531567	0.02945000	0.3063800	-0.04436333
## group_factorContact Eczema		0.6814300	-0.03945333	0.3566233	-0.07583333
## group_factorControl		-1.0305167	0.14621667	-0.3287033	0.02527333
## group_factorLichen Planus		0.3078667	-0.07910000	0.2262367	-0.03583667
## group_factorPsoriasis Vulgaris		-0.4086667	-0.33990000	0.2232667	0.03313667
##		[,1127]	[,1128]	[,1129]	[,1130]
## (Intercept)		-1.0251867	-0.48083333	-0.0554700	0.17678000
## group_factorContact Eczema		-0.3571633	-0.61004333	-0.8254667	-0.09715333
## group_factorControl		1.1466500	0.73061333	0.1498333	0.13211000
## group_factorLichen Planus		0.1541500	0.02941667	-0.1079400	-0.17046000
## group_factorPsoriasis Vulgaris		0.1364867	0.22716000	-0.4956633	-0.28537333
##		[,1131]	[,1132]	[,1133]	[,1134]
## (Intercept)		-0.11077333	0.9062433	0.1698300	-0.2554033
## group_factorContact Eczema		-0.07508333	-0.0318900	0.1366733	-0.1859733
## group_factorControl		0.08821667	-1.0177600	-0.2117533	0.1351467
## group_factorLichen Planus		0.01401333	-0.1388400	0.1282367	-0.1700600
## group_factorPsoriasis Vulgaris		0.18357667	-0.3219067	-0.2427300	0.5743533
##		[,1135]	[,1136]	[,1137]	[,1138]
## (Intercept)		0.2639867	0.2181400	0.1540633	-1.2181300
## group_factorContact Eczema		-0.2032300	0.7064567	-0.0134900	0.1337367
## group_factorControl		-0.3177400	-0.2626633	-0.2821200	1.0866967
## group_factorLichen Planus		0.4060967	1.1415867	0.3545633	0.4455933
## group_factorPsoriasis Vulgaris		-0.5116533	0.3256967	0.3951733	-0.2112333
##		[,1139]	[,1140]	[,1141]	[,1142]
## (Intercept)		0.05610333	0.14401000	0.17028333	-0.03015333
## group_factorContact Eczema		0.13926333	-0.06175333	0.16892000	0.35640667
## group_factorControl		-0.26591000	0.05047667	-0.16390333	0.08341667
## group_factorLichen Planus		0.16389667	0.06042667	-0.04010000	0.25749667
## group_factorPsoriasis Vulgaris		0.04376333	-0.25709333	0.05637667	-0.09360667
##		[,1143]	[,1144]	[,1145]	[,1146]
## (Intercept)		0.09736000	0.11131667	-2.35499667	0.07064333
## group_factorContact Eczema		-0.07102333	0.34947667	1.05512000	0.01672667
## group_factorControl		0.03422333	-0.02575333	1.40351667	-0.08473667
## group_factorLichen Planus		0.03919333	0.11120333	0.06124333	0.19405333
## group_factorPsoriasis Vulgaris		-0.03068000	-0.47064000	-0.52318333	-0.19733333
##		[,1147]	[,1148]	[,1149]	[,1150]
## (Intercept)		0.04311667	-0.459563333	-0.09730667	-0.4932400
## group_factorContact Eczema		0.05824667	-0.010100000	0.00178000	-0.4668833
## group_factorControl		-0.26327333	0.136086667	0.20512000	0.3209167
## group_factorLichen Planus		0.00595000	0.004523333	0.05931000	-0.3240067
## group_factorPsoriasis Vulgaris		-0.29879000	0.725423333	0.09615333	0.4665867
##		[,1151]	[,1152]	[,1153]	[,1154]
## (Intercept)		-0.09244667	-0.08433333	-0.319986667	0.1074300
## group_factorContact Eczema		0.03677667	0.05687333	0.022566667	-0.0085900
## group_factorControl		-0.14135333	0.08608333	0.004766667	-0.2687167
## group_factorLichen Planus		-0.18658000	-0.13279333	0.208950000	0.1202633
## group_factorPsoriasis Vulgaris		0.15185667	-0.10219333	0.665346667	0.1462667
##		[,1155]	[,1156]	[,1157]	[,1158]
## (Intercept)		-0.09105333	-0.19335000	0.13259667	-0.41883667
## group_factorContact Eczema		-0.16975667	0.07556333	-0.24778667	-0.08253667
## group_factorControl		-0.16564333	0.10724667	-0.10225667	0.27035000
## group_factorLichen Planus		-0.10963000	0.03686333	-0.36959000	-0.14062000
## group_factorPsoriasis Vulgaris		0.64098000	0.30774667	-0.09059667	0.06615667

##		[,1159]	[,1160]	[,1161]	[,1162]
## (Intercept)		-0.09200667	-0.1677300000	-0.2123033	-0.25291333
## group_factorContact Eczema		0.12191000	0.0896800000	-0.0735100	0.12054000
## group_factorControl		0.24102000	-0.0001533333	0.4227633	0.12773333
## group_factorLichen Planus		-0.16097333	-0.1314066667	-0.1625633	-0.02684000
## group_factorPsoriasis Vulgaris		-0.17429000	0.2093200000	-0.1980000	-0.03428667
##		[,1163]	[,1164]	[,1165]	[,1166]
## (Intercept)		-0.23522667	-0.0402900	0.10932000	-0.04477333
## group_factorContact Eczema		0.01322667	-0.2463267	0.12230333	-0.44353667
## group_factorControl		0.05420000	0.0394000	-0.19651333	0.21495333
## group_factorLichen Planus		-0.20306333	-0.2488600	-0.08151667	0.41017000
## group_factorPsoriasis Vulgaris		0.25726667	-0.0145200	-0.04174667	-0.19723333
##		[,1167]	[,1168]	[,1169]	[,1170]
## (Intercept)		-0.35498333	-0.35746333	-0.05263667	-0.22453667
## group_factorContact Eczema		0.02303667	-0.29055333	-0.11248333	-0.06912667
## group_factorControl		0.31997667	0.05035667	0.18542000	0.20736000
## group_factorLichen Planus		0.00636000	0.12968333	0.03925667	-0.23732667
## group_factorPsoriasis Vulgaris		-0.00659000	0.59651667	-0.25179667	0.16432333
##		[,1171]	[,1172]	[,1173]	[,1174]
## (Intercept)		-0.28276333	-0.422703333	-1.74131333	0.44250000
## group_factorContact Eczema		-0.08425333	0.165663333	0.64900333	-0.09184333
## group_factorControl		0.19113333	0.606576667	1.24968333	-0.49475333
## group_factorLichen Planus		0.00138000	-0.008203333	-0.08120333	0.39607667
## group_factorPsoriasis Vulgaris		0.25966000	-0.073323333	-0.83202000	1.11766333
##		[,1175]	[,1176]	[,1177]	[,1178]
## (Intercept)		0.4597233	0.3097300	-0.19657333	0.02292333
## group_factorContact Eczema		0.1285900	0.3062333	0.06930667	0.11766000
## group_factorControl		-0.9558067	-0.1710100	0.34459667	-0.01396333
## group_factorLichen Planus		-0.1266133	0.2861467	0.03146000	0.13595667
## group_factorPsoriasis Vulgaris		0.4436400	-0.7186400	-0.38919667	-0.09942333
##		[,1179]	[,1180]	[,1181]	[,1182]
## (Intercept)		0.1298400	0.13002000	0.005603333	-0.05551000
## group_factorContact Eczema		-0.7068167	0.03100000	-0.114473333	0.07985333
## group_factorControl		-0.0387200	-0.10431000	-0.065566667	0.13187333
## group_factorLichen Planus		-0.4051067	0.09768667	0.040240000	-0.03651667
## group_factorPsoriasis Vulgaris		0.4680633	-0.11472333	0.286830000	-0.04722333
##		[,1183]	[,1184]	[,1185]	[,1186]
## (Intercept)		-0.10095667	-0.13225333	-0.215033333	-0.6578900
## group_factorContact Eczema		0.02567667	0.06223333	-0.004596667	0.1558200
## group_factorControl		0.02205333	0.31797667	0.109076667	0.5387033
## group_factorLichen Planus		-0.01142333	-0.23947333	-0.011053333	-0.1706233
## group_factorPsoriasis Vulgaris		0.05501333	-0.14345000	0.184193333	-0.1873600
##		[,1187]	[,1188]	[,1189]	[,1190]
## (Intercept)		0.0078300	-0.005926667	0.2217767	-0.008016667
## group_factorContact Eczema		-0.1704900	0.255353333	-0.4897833	-0.045690000
## group_factorControl		-0.1334667	-0.234620000	-0.1618567	0.169466667
## group_factorLichen Planus		-0.1018433	0.040286667	-0.3193933	-0.011210000
## group_factorPsoriasis Vulgaris		0.4207133	0.082576667	0.5865200	0.093183333
##		[,1191]	[,1192]	[,1193]	[,1194]
## (Intercept)		0.48805333	-0.27698333	-0.0006400	-0.03113667
## group_factorContact Eczema		0.08273333	-0.29106000	-0.1591133	0.11504667
## group_factorControl		-0.72905333	0.34582333	-0.1848367	0.03950333
## group_factorLichen Planus		-0.06405667	-0.08278667	-0.0361500	0.07215667
## group_factorPsoriasis Vulgaris		0.28704000	0.42988333	0.5646133	-0.18013667

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##               [,1195]      [,1196]      [,1197]
## (Intercept)    0.207566667 -0.01825333 -0.008953333
## group_factorContact Eczema  0.038580000 -0.22543000 -0.187123333
## group_factorControl -0.006536667 -0.23631667  0.077076667
## group_factorLichen Planus  0.312236667  0.48323333 -0.286456667
## group_factorPsoriasis Vulgaris -0.331730000  0.52820667 -0.059296667
##               [,1198]      [,1199]      [,1200]      [,1201]
## (Intercept)   -0.50970333  0.4078800 -0.43073000 -0.29018000
## group_factorContact Eczema  0.10595667  0.4579867 -0.24091000  0.08742667
## group_factorControl  0.36929333 -0.3126400  0.23171000  0.23783000
## group_factorLichen Planus -0.08140000  0.5056800 -0.06352667  0.06751000
## group_factorPsoriasis Vulgaris 0.05067667 -0.4889800  0.48765333  0.31988333
##               [,1202]      [,1203]      [,1204]      [,1205]
## (Intercept)    0.1437633  0.111796667 -0.2238000  0.01294000
## group_factorContact Eczema -0.4205333 -0.007993333 -0.1778867  0.09022667
## group_factorControl -0.1713400 -0.128193333  0.1077667  0.28642333
## group_factorLichen Planus -0.0980600  0.225430000  0.2637667 -0.16435333
## group_factorPsoriasis Vulgaris 0.1471900 -0.016220000  0.1863567 -0.16420333
##               [,1206]      [,1207]      [,1208]      [,1209]
## (Intercept)   -0.20617000 -0.14777333 -0.1666700  0.28221667
## group_factorContact Eczema -0.01863667  0.07048000  0.2790933  0.07700667
## group_factorControl  0.15532000 -0.04191333  0.1182600 -0.50452333
## group_factorLichen Planus -0.00594000  0.05000667  0.3950733 -0.07653333
## group_factorPsoriasis Vulgaris 0.44774000 -0.28059667  0.1253800  0.36396000
##               [,1210]      [,1211]      [,1212]      [,1213]
## (Intercept)   -0.7840633 -0.09897667 -0.54028667 -0.1972167
## group_factorContact Eczema -0.1310033 -0.32164333  0.14149667  0.1457567
## group_factorControl -0.2435100  0.01968000  1.16328000  0.0973800
## group_factorLichen Planus -0.2396267 -0.07653000  0.02143667  0.1622400
## group_factorPsoriasis Vulgaris -0.1200300  0.55362333  0.09684333  0.1559500
##               [,1214]      [,1215]      [,1216]      [,1217]
## (Intercept)    0.5982467  0.3989267  0.3279933 -0.18133000
## group_factorContact Eczema  0.5946800  0.6744633 -0.4221167  0.05098667
## group_factorControl -0.5879667 -0.3533067 -0.3570067  0.12488000
## group_factorLichen Planus  0.6057333  0.4363267  0.3439567 -0.20966667
## group_factorPsoriasis Vulgaris 0.0622400 -0.2717667 -0.6605833 -0.11023000
##               [,1218]      [,1219]      [,1220]      [,1221]
## (Intercept)   -0.6532967 -0.2289167  0.3763767  1.1768467
## group_factorContact Eczema -1.2080867 -0.0263100  0.5992967  0.4119200
## group_factorControl  1.0962067 -0.1420200 -0.3044900 -1.0238100
## group_factorLichen Planus -0.2018500 -0.0463000  1.6179967 -0.4122333
## group_factorPsoriasis Vulgaris -0.7168200  0.8610600  0.0094500  3.8305600
##               [,1222]      [,1223]      [,1224]      [,1225]
## (Intercept)    0.5603300 -0.10353333  0.26379667 -0.17888000
## group_factorContact Eczema -0.2463000 -0.05252000  0.05029667 -0.04573667
## group_factorControl -0.3218767 -0.12796333 -0.21901333  0.16829000
## group_factorLichen Planus -0.5411167  0.09622333 -0.05165000 -0.33701333
## group_factorPsoriasis Vulgaris -0.3488533  0.05579000 -0.17605333 -0.01988667
##               [,1226]      [,1227]      [,1228]      [,1229]
## (Intercept)    0.5453400  0.08132333  0.3118233 -0.14385333
## group_factorContact Eczema -0.2823900 -0.11209667  0.0078100  0.00953000
## group_factorControl -0.5872367  0.08823667  0.0195400 -0.01822667
## group_factorLichen Planus -0.2101500 -0.18030333  0.1544200  0.06301667
## group_factorPsoriasis Vulgaris -0.0001100 -0.11934333  0.0365400  0.17083000

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##		[,1230]	[,1231]	[,1232]	[,1233]
## (Intercept)		-0.28521333	-0.005073333	-0.02978667	-0.2729433
## group_factorContact Eczema		0.04400333	-0.16588667	-0.24155000	-0.2282867
## group_factorControl		-0.01793667	-0.062643333	0.07552000	0.2310367
## group_factorLichen Planus		-0.06081000	0.12006667	-0.13916333	-0.0516400
## group_factorPsoriasis Vulgaris		0.55494333	0.71000667	0.17692667	0.1109867
##		[,1234]	[,1235]	[,1236]	[,1237]
## (Intercept)		0.135740000	0.3674933	0.24898000	0.55287667
## group_factorContact Eczema		-0.132416667	-0.3002133	-0.18333333	0.15815000
## group_factorControl		-0.059246667	-0.3675333	-0.16176333	-0.42684000
## group_factorLichen Planus		-0.039600000	-0.3204833	-0.01426667	0.20333667
## group_factorPsoriasis Vulgaris		-0.009236667	-0.2688833	-0.04493000	-0.07752333
##		[,1238]	[,1239]	[,1240]	[,1241]
## (Intercept)		0.4325467	0.04558333	0.13743000	0.37664333
## group_factorContact Eczema		0.5153767	-0.29334333	-0.24337667	-0.04252667
## group_factorControl		-0.4419633	-0.07933333	-0.28003333	-0.32252000
## group_factorLichen Planus		0.3341300	-0.19201000	-0.08383333	0.14541333
## group_factorPsoriasis Vulgaris		-0.4486367	-0.09375333	-0.44874333	0.70811667
##		[,1242]	[,1243]	[,1244]	[,1245]
## (Intercept)		-0.49330333	0.12504333	0.02670667	-0.2461600
## group_factorContact Eczema		-0.45620333	0.21857000	-0.02138000	0.0293400
## group_factorControl		0.61216333	0.06492667	0.11998667	0.2484267
## group_factorLichen Planus		0.09102667	0.10892667	0.06406000	-0.0030700
## group_factorPsoriasis Vulgaris		-0.36209333	-0.26219000	-0.41767667	-0.0379900
##		[,1246]	[,1247]	[,1248]	[,1249]
## (Intercept)		-0.06856000	0.1681967	0.23151000	-0.02566000
## group_factorContact Eczema		0.06350333	-0.2346767	-0.28577000	0.03386000
## group_factorControl		0.05772667	0.0267900	-0.05349667	0.05917000
## group_factorLichen Planus		0.36983333	-0.1459367	-0.28684000	0.07283333
## group_factorPsoriasis Vulgaris		-0.20805667	-0.1595100	-0.37295667	0.01198667
##		[,1250]	[,1251]	[,1252]	[,1253]
## (Intercept)		-0.09314333	-0.10417000	0.14347333	0.4555467
## group_factorContact Eczema		-0.10022667	-0.09603000	-0.72710000	0.2394633
## group_factorControl		0.02777667	0.05420333	-0.07304667	-0.4428433
## group_factorLichen Planus		-0.15428667	-0.08640667	-0.32540000	0.1624667
## group_factorPsoriasis Vulgaris		-0.39256000	-0.06167000	-0.13720333	-0.1661167
##		[,1254]	[,1255]	[,1256]	[,1257]
## (Intercept)		-0.3188033	0.4588267	-0.1409933	-0.24997000
## group_factorContact Eczema		0.0936600	0.2760367	-0.4531467	-0.21987667
## group_factorControl		0.5214633	-0.2839700	0.1187133	0.14271333
## group_factorLichen Planus		0.4581733	-0.1216667	0.0505200	-0.02302667
## group_factorPsoriasis Vulgaris		-0.2220233	0.3062033	0.1899433	-0.12339000
##		[,1258]	[,1259]	[,1260]	[,1261]
## (Intercept)		-0.44273333	0.07658667	-0.1603600	-0.35868000
## group_factorContact Eczema		-0.01644333	-0.24295333	-0.1887400	0.08306667
## group_factorControl		0.23177333	-0.10755000	0.2046367	0.46197667
## group_factorLichen Planus		-0.09710333	-0.28523667	0.1699433	-0.13387667
## group_factorPsoriasis Vulgaris		0.42864333	-0.15360667	-0.0910800	-0.34228000
##		[,1262]	[,1263]	[,1264]	[,1265]
## (Intercept)		0.1156733	-0.21197000	-0.103423333	-0.31207333
## group_factorContact Eczema		0.3857833	0.20659000	0.254566667	-0.14976667
## group_factorControl		-0.0723200	0.31356000	0.026796667	0.28727333
## group_factorLichen Planus		0.0131100	0.02995333	0.001526667	-0.09302333
## group_factorPsoriasis Vulgaris		-0.0170100	-0.06073667	-0.060070000	0.24964333

##		[,1266]	[,1267]	[,1268]	[,1269]
## (Intercept)		0.0352700	0.09073333	0.83472000	0.39039000
## group_factorContact Eczema		-0.2100100	-0.20681333	0.15860000	0.07857333
## group_factorControl		0.0139300	-0.03466333	-0.88809667	-0.44541000
## group_factorLichen Planus		-0.1468967	0.13264333	0.01745667	-0.33724000
## group_factorPsoriasis Vulgaris		-0.2583167	-0.27480000	-0.84494667	-0.12515333
##		[,1270]	[,1271]	[,1272]	[,1273]
## (Intercept)		-0.0689600	0.44450333	0.7811633	0.19183667
## group_factorContact Eczema		0.2895400	0.33644000	0.5679900	-0.06297333
## group_factorControl		-0.4627900	-0.57081000	-1.4093067	-0.32337333
## group_factorLichen Planus		-0.5786167	0.02074333	-0.5406300	-0.28733667
## group_factorPsoriasis Vulgaris		1.6404567	0.06854667	0.6714933	0.27758333
##		[,1274]	[,1275]	[,1276]	[,1277]
## (Intercept)		0.2360967	0.7832600	0.20646333	0.47430333
## group_factorContact Eczema		-0.1917033	-0.9655333	0.04912000	0.07125333
## group_factorControl		-0.4490833	-0.7346000	-0.17316333	-0.71452667
## group_factorLichen Planus		-0.2532867	-0.4330900	-0.11169333	-0.09567667
## group_factorPsoriasis Vulgaris		0.5977733	0.8238267	0.08165333	0.10433333
##		[,1278]	[,1279]	[,1280]	[,1281]
## (Intercept)		0.07072667	0.23885333	-0.6581233	-0.04428333
## group_factorContact Eczema		0.22054000	0.12477333	0.3680233	-0.19368333
## group_factorControl		-0.22152000	-0.11614000	0.2503167	-0.06376333
## group_factorLichen Planus		0.12708333	0.08708333	-0.0744700	-0.24591333
## group_factorPsoriasis Vulgaris		1.25291000	-0.09585000	0.3916800	0.20450667
##		[,1282]	[,1283]	[,1284]	[,1285]
## (Intercept)		0.7363700	-0.29149000	-0.38696000	0.187286667
## group_factorContact Eczema		-0.6678400	-0.01546333	0.06262333	-0.350033333
## group_factorControl		-0.5833133	0.19227000	0.33293000	-0.273446667
## group_factorLichen Planus		-0.7479467	0.02909000	-0.09308333	-0.007163333
## group_factorPsoriasis Vulgaris		-1.2106167	-0.03922667	0.09840333	0.411163333
##		[,1286]	[,1287]	[,1288]	[,1289]
## (Intercept)		-0.1560433333	-0.02481667	0.08522667	0.2204900
## group_factorContact Eczema		0.0001733333	-0.12683667	-0.05889667	0.1565600
## group_factorControl		0.0004866667	-0.01323000	-0.24239667	-0.1930233
## group_factorLichen Planus		-0.2361700000	-0.06355667	-0.19976333	-0.1791000
## group_factorPsoriasis Vulgaris		0.4425866667	0.76811333	0.05511000	0.0994400
##		[,1290]	[,1291]	[,1292]	[,1293]
## (Intercept)		-0.009996667	-0.26234667	0.7154800	0.15496000
## group_factorContact Eczema		-0.108906667	0.27859000	0.3627900	-0.03615333
## group_factorControl		-0.067240000	0.07517000	-0.7004633	-0.49901333
## group_factorLichen Planus		-0.195153333	0.08039333	0.1498133	-0.37492333
## group_factorPsoriasis Vulgaris		0.318090000	0.12905333	1.2090367	0.12213667
##		[,1294]	[,1295]	[,1296]	[,1297]
## (Intercept)		0.08735333	0.08437333	-0.02190333	0.28659667
## group_factorContact Eczema		0.01818000	0.25747667	-0.07109000	0.05947333
## group_factorControl		-0.36020000	-0.23945333	0.16257667	-0.40248333
## group_factorLichen Planus		-0.20478333	-0.07102667	-0.15039667	-0.14460667
## group_factorPsoriasis Vulgaris		-0.16733000	0.14418000	-0.09069000	0.17101333
##		[,1298]	[,1299]	[,1300]	[,1301]
## (Intercept)		-0.071753333	-0.086453333	0.2986700	-0.43881667
## group_factorContact Eczema		0.150246667	-0.087646667	-0.2377067	-0.11175333
## group_factorControl		0.096030000	0.166820000	-0.3035667	0.08384333
## group_factorLichen Planus		0.009303333	0.007396667	-0.2832200	-0.09171000
## group_factorPsoriasis Vulgaris		0.801406667	0.132330000	-0.2781500	0.64907000

##		[,1302]	[,1303]	[,1304]	[,1305]
## (Intercept)		-0.36170000	-0.21880667	0.7071400	0.4530700
## group_factorContact Eczema		0.30294333	0.01973000	-0.3217400	0.3414100
## group_factorControl		0.38212333	0.22571000	-0.6647700	-0.4677567
## group_factorLichen Planus		0.07968667	0.04471667	-0.5676367	0.8509433
## group_factorPsoriasis Vulgaris		0.01495333	-0.25682333	1.3834933	0.4091900
##		[,1306]	[,1307]	[,1308]	[,1309]
## (Intercept)		-1.0403300	-0.22038333	-0.4715967	-0.16894333
## group_factorContact Eczema		-0.5905100	0.02252667	-0.5988567	0.06476000
## group_factorControl		1.1257800	0.19550667	0.7678067	0.13309000
## group_factorLichen Planus		0.2451433	-0.18203667	-0.0157400	0.09498667
## group_factorPsoriasis Vulgaris		-0.1830667	0.02795000	-0.2785600	0.14385333
##		[,1310]	[,1311]	[,1312]	[,1313]
## (Intercept)		-0.2767233	0.16491667	-0.7802800	0.8792767
## group_factorContact Eczema		-0.0288500	0.04809667	-0.6061600	0.3218667
## group_factorControl		-0.0821300	-0.19386667	0.1624933	-0.8899333
## group_factorLichen Planus		-0.0339600	-0.18488000	-0.5124733	0.7291633
## group_factorPsoriasis Vulgaris		0.2479433	-0.37179333	-0.8436367	-0.5819433
##		[,1314]	[,1315]	[,1316]	[,1317]
## (Intercept)		2.0987200	-0.6754467	0.1028133	0.03706667
## group_factorContact Eczema		-0.5433333	-0.8711100	-0.1086900	0.00476000
## group_factorControl		-2.4099100	0.5790433	-0.1838933	0.09296000
## group_factorLichen Planus		0.8242600	0.5091833	-0.1399467	0.09015667
## group_factorPsoriasis Vulgaris		0.8850700	0.3824567	0.1075100	-0.13956667
##		[,1318]	[,1319]	[,1320]	[,1321]
## (Intercept)		0.3168133	-0.01935333	-0.06867667	0.1838800
## group_factorContact Eczema		0.3658133	0.15654000	0.08855333	0.2363300
## group_factorControl		-0.2734833	-0.06053667	0.05988667	-0.0219900
## group_factorLichen Planus		0.6177000	0.00215000	-0.05504000	0.1023300
## group_factorPsoriasis Vulgaris		0.7146100	-0.17543667	-0.07784667	-0.4119133
##		[,1322]	[,1323]	[,1324]	[,1325]
## (Intercept)		0.0385300	-0.12771667	-0.05789333	-0.09585667
## group_factorContact Eczema		0.0643600	-0.14125000	-0.11618000	-0.13428667
## group_factorControl		-0.1477033	0.08605333	0.21711333	0.08919000
## group_factorLichen Planus		0.0316900	0.08345000	0.07714000	0.10593667
## group_factorPsoriasis Vulgaris		-0.2098700	-0.19447667	-0.13532333	-0.16009333
##		[,1326]	[,1327]	[,1328]	[,1329]
## (Intercept)		-0.036070000	0.01519333	0.9281800	0.01626667
## group_factorContact Eczema		-0.051233333	0.28459000	-0.3534167	0.18503000
## group_factorControl		-0.005786667	-0.01035333	-1.3779300	-0.07148667
## group_factorLichen Planus		0.065636667	0.22076000	0.5294133	0.17256333
## group_factorPsoriasis Vulgaris		-0.065056667	-0.11971000	0.3014633	-0.02682333
##		[,1330]	[,1331]	[,1332]	[,1333]
## (Intercept)		-0.3942267	-0.07400667	-0.0002800	-0.20796000
## group_factorContact Eczema		0.5773467	0.25761000	0.2979833	0.10355333
## group_factorControl		0.3997167	0.26373333	-0.4250233	0.08470333
## group_factorLichen Planus		1.1227000	0.34720333	0.7459967	0.89744000
## group_factorPsoriasis Vulgaris		-0.3865400	0.01064000	-0.1564667	-0.43106667
##		[,1334]	[,1335]	[,1336]	[,1337]
## (Intercept)		0.6011367	0.5414367	-0.1334633	0.7229900
## group_factorContact Eczema		0.4875100	0.5978500	-0.1882200	0.2791100
## group_factorControl		-0.7242433	-0.5407667	0.1579700	-0.7235933
## group_factorLichen Planus		1.0174600	0.8432967	0.2109767	0.6771467
## group_factorPsoriasis Vulgaris		-0.2724567	-0.4015133	-0.3618300	-0.8215300

##		[,1338]	[,1339]	[,1340]	[,1341]
## (Intercept)		0.8685467	0.26106667	0.7652533	0.71076667
## group_factorContact Eczema		0.4689800	0.02792667	0.2601767	-0.03960000
## group_factorControl		-0.8585567	-0.22598333	-0.7232867	-0.45980333
## group_factorLichen Planus		0.8635533	-0.32926000	0.4817733	0.23442667
## group_factorPsoriasis Vulgaris		-0.8112367	-1.04050667	-0.7409267	0.02082333
##		[,1342]	[,1343]	[,1344]	[,1345]
## (Intercept)		0.1517833	0.7589267	0.2917067	0.03051333
## group_factorContact Eczema		0.3912833	0.5934867	-0.4041100	0.08331667
## group_factorControl		-0.1609933	-1.0454267	-0.5413200	-0.19118667
## group_factorLichen Planus		0.0411800	0.1517300	0.1992867	0.08397333
## group_factorPsoriasis Vulgaris		0.1630000	-0.3971033	0.4629467	0.01000333
##		[,1346]	[,1347]	[,1348]	[,1349]
## (Intercept)		-0.073743333	0.150616667	0.1988733	0.25956000
## group_factorContact Eczema		0.139203333	0.001703333	-0.3404133	-0.22697333
## group_factorControl		-0.072906667	-0.370066667	-0.1935233	-0.85683333
## group_factorLichen Planus		-0.001743333	-0.097453333	-0.4377267	-0.22420333
## group_factorPsoriasis Vulgaris		0.024543333	-0.178166667	0.3104067	-0.04473667
##		[,1350]	[,1351]	[,1352]	[,1353]
## (Intercept)		-0.05051667	0.9824467	0.4431200	0.6053267
## group_factorContact Eczema		-0.07769000	1.0535533	0.4247300	0.1801033
## group_factorControl		-0.10630333	-1.0255367	-0.4924600	-0.6083800
## group_factorLichen Planus		-0.00171000	0.8979633	0.7779867	0.2449167
## group_factorPsoriasis Vulgaris		0.08663000	-0.2950233	-0.2240967	-0.2777800
##		[,1354]	[,1355]	[,1356]	[,1357]
## (Intercept)		0.05360333	-0.07587333	0.03584333	0.43718333
## group_factorContact Eczema		0.47099333	-0.01730667	0.24946333	-0.28221333
## group_factorControl		-0.31479000	0.15307333	0.12132667	-0.44801667
## group_factorLichen Planus		0.57245667	0.12079000	0.18627667	0.03253667
## group_factorPsoriasis Vulgaris		-0.07730000	0.05459667	-0.04548000	1.47053333
##		[,1358]	[,1359]	[,1360]	[,1361]
## (Intercept)		-0.025276667	-0.9813700	0.73507667	-0.43077667
## group_factorContact Eczema		0.195950000	0.1084200	-0.23772000	-0.09113333
## group_factorControl		0.008023333	1.5651900	-0.72238667	0.30026333
## group_factorLichen Planus		0.109953333	0.4500267	-0.07812333	-0.15845667
## group_factorPsoriasis Vulgaris		0.211033333	-0.2215700	2.23501000	0.01398667
##		[,1362]	[,1363]	[,1364]	[,1365]
## (Intercept)		0.6649733	-0.24088000	-0.127013333	-0.1303067
## group_factorContact Eczema		-0.1464233	0.03281333	0.001173333	-0.2727367
## group_factorControl		-1.0722667	0.13400667	0.212180000	-0.1410500
## group_factorLichen Planus		-0.3658067	0.24675000	0.005103333	-0.1348700
## group_factorPsoriasis Vulgaris		-0.6467700	0.26923667	-0.025266667	-0.2781867
##		[,1366]	[,1367]	[,1368]	[,1369]
## (Intercept)		0.60156333	-0.1951800	-0.10307667	0.1557600
## group_factorContact Eczema		0.09316333	0.0587000	0.04062667	0.2274100
## group_factorControl		-0.59757333	0.2429567	-0.06015667	-0.2950267
## group_factorLichen Planus		0.24751667	-0.1094467	0.21973667	0.1380567
## group_factorPsoriasis Vulgaris		0.37260333	-0.1721433	-0.19675333	-0.2783133
##		[,1370]	[,1371]	[,1372]	[,1373]
## (Intercept)		-0.35964000	0.16997333	-0.23760333	0.01019333
## group_factorContact Eczema		-0.26486333	-0.06097333	-0.05647333	-0.04459667
## group_factorControl		0.28633333	-0.16227333	0.28037000	-0.01247667
## group_factorLichen Planus		-0.22982333	0.03757000	0.06862000	-0.02168333
## group_factorPsoriasis Vulgaris		0.09996667	-0.25610667	-0.02096000	-0.08616000

##		[,1374]	[,1375]	[,1376]	[,1377]
## (Intercept)		0.04573667	-0.35451000	-0.1977367	-0.18693667
## group_factorContact Eczema		-0.05157333	-0.08625333	0.1004067	0.14498000
## group_factorControl		-0.10254000	0.22215667	0.1947000	0.36927667
## group_factorLichen Planus		0.14953333	-0.21441000	0.0215600	-0.05722333
## group_factorPsoriasis Vulgaris		0.11348333	0.18857333	-0.1652900	-0.29048333
##		[,1378]	[,1379]	[,1380]	[,1381]
## (Intercept)		0.33637000	0.412713333	0.3342467	0.3901700
## group_factorContact Eczema		0.11705333	0.125540000	0.1721800	-0.2325333
## group_factorControl		-0.47154667	-0.852133333	-0.4436533	-0.4769767
## group_factorLichen Planus		-0.09175667	0.003083333	0.3628100	-0.2608067
## group_factorPsoriasis Vulgaris		0.23597000	-0.215623333	-0.1091533	0.2590100
##		[,1382]	[,1383]	[,1384]	[,1385]
## (Intercept)		0.26346000	-0.12644667	-0.01440333	0.2268867
## group_factorContact Eczema		0.27125000	-0.03355333	0.09196000	0.2702700
## group_factorControl		0.02248667	0.29422333	-0.08728667	-0.2847700
## group_factorLichen Planus		-0.05091000	-0.04334667	0.03901333	0.1816000
## group_factorPsoriasis Vulgaris		-0.66143667	-0.08947667	-0.05557667	-0.1994133
##		[,1386]	[,1387]	[,1388]	[,1389]
## (Intercept)		-0.22514000	0.015060000	0.1985667	-0.19391000
## group_factorContact Eczema		0.18543333	0.105410000	-0.5756267	0.06622000
## group_factorControl		0.43601333	0.095036667	-0.3507067	0.01000000
## group_factorLichen Planus		-0.05844667	-0.004663333	-0.4198333	-0.04564333
## group_factorPsoriasis Vulgaris		-0.26124000	-0.026956667	0.2091600	0.07120000
##		[,1390]	[,1391]	[,1392]	[,1393]
## (Intercept)		-0.27127000	-0.01169667	0.06602000	0.0503800
## group_factorContact Eczema		0.23850000	-0.08636000	0.17570667	-0.2918633
## group_factorControl		0.07801000	-0.03673333	-0.09740333	-0.2471733
## group_factorLichen Planus		0.08923333	-0.06069333	0.30040000	-0.3835100
## group_factorPsoriasis Vulgaris		0.07579667	-0.03846333	-0.10199667	0.0839400
##		[,1394]	[,1395]	[,1396]	[,1397]
## (Intercept)		-0.35902000	-0.1636900	-0.0783200000	0.1197300
## group_factorContact Eczema		-0.08027667	-0.0084500	0.0820166667	-0.1521567
## group_factorControl		0.56316000	0.2697067	0.0820400000	-0.1329067
## group_factorLichen Planus		0.12576333	0.1488533	-0.0004233333	-0.1223067
## group_factorPsoriasis Vulgaris		-0.35733667	0.1292633	-0.2666966667	0.1637467
##		[,1398]	[,1399]	[,1400]	[,1401]
## (Intercept)		0.04403000	-0.3684033	0.05795333	0.3373967
## group_factorContact Eczema		0.14244667	-0.1027833	0.13768667	-0.6166200
## group_factorControl		-0.21051000	0.3488500	-0.24615667	0.1821967
## group_factorLichen Planus		0.18222333	-0.1300467	-0.09867667	-0.4384000
## group_factorPsoriasis Vulgaris		0.06926333	-0.0302100	0.29941333	-0.8761000
##		[,1402]	[,1403]	[,1404]	[,1405]
## (Intercept)		0.06811000	0.05561333	-0.150560000	-0.2703000
## group_factorContact Eczema		0.31847333	0.26976000	-0.179943333	-0.2622633
## group_factorControl		-0.06966667	-0.10053667	-0.174230000	0.2165867
## group_factorLichen Planus		-0.09136667	0.94965667	-0.002976667	0.2469900
## group_factorPsoriasis Vulgaris		-0.00572000	0.05002667	-0.153786667	-0.3846500
##		[,1406]	[,1407]	[,1408]	[,1409]
## (Intercept)		0.4019333	-0.2340967	0.08238000	-0.2735733
## group_factorContact Eczema		0.0535500	-0.3876067	0.15936333	0.2038067
## group_factorControl		-0.5641367	0.4606733	-0.09935667	0.2360067
## group_factorLichen Planus		-0.3203967	-0.1713933	0.02674333	-0.0734400
## group_factorPsoriasis Vulgaris		1.4105900	-0.6448400	-0.04404333	-0.0499400

##		[,1410]	[,1411]	[,1412]	[,1413]
## (Intercept)		-0.7867800	-0.377153333	-0.1939033	0.1675233
## group_factorContact Eczema		-0.8295700	0.062070000	0.1856733	0.2522933
## group_factorControl		1.5965133	0.121093333	0.0096300	-0.1596033
## group_factorLichen Planus		-0.3990633	-0.180176667	0.4046333	0.3966200
## group_factorPsoriasis Vulgaris		-1.1414867	0.001696667	0.0586600	0.3683533
##		[,1414]	[,1415]	[,1416]	[,1417]
## (Intercept)		-0.5638100	0.16342000	-0.203723333	0.23371333
## group_factorContact Eczema		0.0883400	0.08323000	0.005516667	0.05059667
## group_factorControl		0.5556167	-0.01759667	0.235683333	-0.22750667
## group_factorLichen Planus		-0.2344600	-0.15455333	-0.000080000	0.33233667
## group_factorPsoriasis Vulgaris		-0.1746567	-0.13951667	-0.080543333	0.09112667
##		[,1418]	[,1419]	[,1420]	[,1421]
## (Intercept)		-0.09470000	-0.30296333	-0.8221300	-0.32981667
## group_factorContact Eczema		-0.30445667	-0.14440333	0.2411433	0.06123333
## group_factorControl		0.35154667	0.09860667	0.8684333	0.30543333
## group_factorLichen Planus		-0.05170667	-0.38028667	0.7777633	0.09730000
## group_factorPsoriasis Vulgaris		-0.24422667	0.49299000	-0.3806533	0.22438667
##		[,1422]	[,1423]	[,1424]	[,1425]
## (Intercept)		0.2057833	0.33604333	0.3315500	-0.09800333
## group_factorContact Eczema		-0.1472467	0.05323333	0.6651867	0.01053667
## group_factorControl		-0.6594667	-0.20250333	-0.3428533	-0.02770000
## group_factorLichen Planus		-0.4073367	0.10424333	0.4408633	-0.12653333
## group_factorPsoriasis Vulgaris		0.3285467	-0.41686333	-0.3765333	-0.05781667
##		[,1426]	[,1427]	[,1428]	[,1429]
## (Intercept)		-0.8948200	0.046596667	-0.13009333	0.2981667
## group_factorContact Eczema		0.2991933	-0.005333333	0.06443000	0.2471233
## group_factorControl		0.8593100	-0.016113333	0.14089667	-0.2020767
## group_factorLichen Planus		0.7442700	-0.113660000	0.02414667	0.2127367
## group_factorPsoriasis Vulgaris		-0.2690767	-0.055396667	-0.03621667	-0.2894900
##		[,1430]	[,1431]	[,1432]	[,1433]
## (Intercept)		0.5448900	-0.07115000	-0.234373333	0.02710333
## group_factorContact Eczema		-0.0145000	0.02798000	0.091026667	-0.08542000
## group_factorControl		-0.4498567	-0.09297667	0.271370000	0.06588333
## group_factorLichen Planus		-0.2278967	-0.13252667	0.005693333	-0.19810000
## group_factorPsoriasis Vulgaris		0.1144300	0.15157000	-0.332143333	-0.45519000
##		[,1434]	[,1435]	[,1436]	
## (Intercept)		-0.1005933333	-0.369023333	-0.09008000	
## group_factorContact Eczema		-0.0737100000	0.192213333	0.07217667	
## group_factorControl		0.3695466667	0.008696667	0.08773000	
## group_factorLichen Planus		0.0003566667	0.089003333	-0.07143667	
## group_factorPsoriasis Vulgaris		0.5462866667	0.097593333	-0.25933667	
##		[,1437]	[,1438]	[,1439]	[,1440]
## (Intercept)		0.3013133	-0.461266667	0.2553767	0.205726667
## group_factorContact Eczema		0.1886800	0.098203333	0.0889700	0.103616667
## group_factorControl		-0.3539067	0.347940000	-0.0106300	-0.271680000
## group_factorLichen Planus		0.7739267	-0.022813333	-0.3310167	-0.141000000
## group_factorPsoriasis Vulgaris		0.5424200	0.008606667	-0.3871467	-0.005776667
##		[,1441]	[,1442]	[,1443]	[,1444]
## (Intercept)		-0.3630600	-0.4331300	-0.19566333	-0.1143533
## group_factorContact Eczema		-0.7396967	-0.1286667	0.08098667	0.1727433
## group_factorControl		0.2471267	0.1809833	-0.07223667	0.2082767
## group_factorLichen Planus		-0.1657800	-0.1158633	0.02036333	0.1545533
## group_factorPsoriasis Vulgaris		0.3616667	-0.5547167	-0.11631000	0.0783800

##		[,1445]	[,1446]	[,1447]	[,1448]
## (Intercept)		-0.13676000	-0.20693667	0.08180667	0.41410333
## group_factorContact Eczema		-0.10846000	-0.16005333	-0.13080333	-0.01425333
## group_factorControl		0.15023667	0.09803333	-0.31238333	-0.67418333
## group_factorLichen Planus		0.02628333	-0.18158667	0.75011000	0.73214333
## group_factorPsoriasis Vulgaris		0.31921333	0.18215667	0.59903667	0.24925333
##		[,1449]	[,1450]	[,1451]	[,1452]
## (Intercept)		-0.07012667	-0.04946000	0.5463800	-0.0705200
## group_factorContact Eczema		-0.29392333	-0.20456667	0.8364833	-0.0614600
## group_factorControl		0.19886667	-0.13007667	-0.4466500	0.1225233
## group_factorLichen Planus		-0.18425667	-0.03816667	0.7256800	0.1400500
## group_factorPsoriasis Vulgaris		0.08589000	0.33349000	-0.6647633	0.4373867
##		[,1453]	[,1454]	[,1455]	[,1456]
## (Intercept)		-0.11649333	-0.3731433	0.234313333	0.18998667
## group_factorContact Eczema		-0.03743667	0.2723500	-0.023240000	0.20491667
## group_factorControl		0.17910000	0.3535633	0.001516667	0.04596667
## group_factorLichen Planus		-0.22750000	0.1209567	-0.324483333	-0.06365667
## group_factorPsoriasis Vulgaris		-0.06721333	-0.2712833	-0.296510000	0.11164000
##		[,1457]	[,1458]	[,1459]	[,1460]
## (Intercept)		-0.003933333	0.4450133	-0.1294333	-0.12916333
## group_factorContact Eczema		0.065350000	0.7709233	-0.1819600	0.06849333
## group_factorControl		0.062046667	-0.3389633	0.1587067	0.13356000
## group_factorLichen Planus		-0.056703333	0.7578433	0.1143733	0.14146333
## group_factorPsoriasis Vulgaris		0.061030000	-0.5122933	-0.1399733	-0.22463333
##		[,1461]	[,1462]	[,1463]	[,1464]
## (Intercept)		-1.092326667	-0.05715333	-0.06326667	-0.24667000
## group_factorContact Eczema		0.013606667	-0.03609000	0.01163667	0.11180000
## group_factorControl		1.556973333	0.24372667	0.07586333	0.24498000
## group_factorLichen Planus		0.081460000	0.13780333	-0.01097000	-0.03376667
## group_factorPsoriasis Vulgaris		-0.004023333	-0.23976667	0.09088333	0.08949333
##		[,1465]	[,1466]	[,1467]	[,1468]
## (Intercept)		-0.15480333	1.43795000	0.1542500	-0.20030667
## group_factorContact Eczema		0.01976667	-0.51652667	0.1061100	0.09582667
## group_factorControl		0.22859000	-1.02958333	-0.1203900	0.09125333
## group_factorLichen Planus		-0.03670000	-0.65391667	0.3210633	-0.09624667
## group_factorPsoriasis Vulgaris		-0.09039667	0.09974667	-0.2117067	-0.20438667
##		[,1469]	[,1470]	[,1471]	[,1472]
## (Intercept)		-0.1583033	1.2322200	0.003283333	-0.09657333
## group_factorContact Eczema		0.0274200	-0.6697900	0.020673333	0.03635000
## group_factorControl		0.1587233	-1.2094933	0.211933333	0.14423667
## group_factorLichen Planus		-0.1791433	-0.6785633	-0.118163333	-0.12579667
## group_factorPsoriasis Vulgaris		-0.1499033	1.3404867	-0.229953333	0.02993000
##		[,1473]	[,1474]	[,1475]	[,1476]
## (Intercept)		0.29863000	0.49682333	0.15649000	-0.35941333
## group_factorContact Eczema		-0.09409667	-0.01532667	0.10660667	0.00777000
## group_factorControl		-0.26007333	-0.09604333	-0.08265333	0.52186667
## group_factorLichen Planus		-0.10330333	0.02603000	-0.07853667	0.08483667
## group_factorPsoriasis Vulgaris		-0.13035333	-0.91053000	-0.31177667	-0.10876000
##		[,1477]	[,1478]	[,1479]	
## (Intercept)		0.16561667	-0.0008433333	0.09135333	
## group_factorContact Eczema		0.10772000	0.0538033333	0.11549333	
## group_factorControl		-0.17742000	-0.2216433333	-0.15785333	
## group_factorLichen Planus		-0.05578333	0.0475666667	-0.02122000	
## group_factorPsoriasis Vulgaris		-0.27003000	0.3393066667	0.01400667	

```

##                                [,1480]    [,1481]    [,1482]
## (Intercept)                   0.1172133333 -0.1430233 -0.03143333
## group_factorContact Eczema    0.0002133333  0.1664067  0.02533667
## group_factorControl          -0.1984233333  0.1941433  0.11951667
## group_factorLichen Planus    -0.0262733333 -0.1501700  0.01087000
## group_factorPsoriasis Vulgaris -0.1516900000 -0.1424167 -0.06736333
##                                [,1483]    [,1484]    [,1485]
## (Intercept)                   -0.006743333 -0.008043333  0.14586000
## group_factorContact Eczema    -0.072216667  0.197533333 -0.07277667
## group_factorControl           0.025900000  0.033570000  0.02606333
## group_factorLichen Planus     0.174690000  0.013863333 -0.04865333
## group_factorPsoriasis Vulgaris 0.171870000 -0.371646667  0.04435333
##                                [,1486]    [,1487]    [,1488]    [,1489]
## (Intercept)                   0.146926667 -0.154826667 -0.1020767  0.16507667
## group_factorContact Eczema    -0.084446667 -0.140866667 -0.2700567  0.06633000
## group_factorControl           0.097756667  0.370696667  0.2221600  0.01538667
## group_factorLichen Planus     0.03407000 -0.187926667  0.0629900  0.27730667
## group_factorPsoriasis Vulgaris -0.366926667 -0.005416667  0.1080500 -0.43877333
##                                [,1490]    [,1491]    [,1492]    [,1493]
## (Intercept)                   -0.08090000 -0.15787667 -0.09502667 -0.16993333
## group_factorContact Eczema     0.06151667  0.10602667  0.18825333  0.11032000
## group_factorControl           0.07306667  0.10020667  0.22428000  0.19121667
## group_factorLichen Planus     0.04031333  0.01992000  0.03625333 -0.10807333
## group_factorPsoriasis Vulgaris -0.14094333 -0.02551667 -0.33434333 -0.06490333
##                                [,1494]    [,1495]    [,1496]    [,1497]
## (Intercept)                   -0.3246233 -0.23279000 -0.14462000 -0.12788667
## group_factorContact Eczema     0.2571167  0.02399000 -0.06204667  0.03039333
## group_factorControl           0.2819667  0.30115667  0.29800333  0.25098333
## group_factorLichen Planus     -0.1095933 -0.09963667 -0.15611000 -0.17352333
## group_factorPsoriasis Vulgaris -0.0960300 -0.09591333 -0.42888667 -0.47383333
##                                [,1498]    [,1499]    [,1500]    [,1501]
## (Intercept)                   -0.09610667 -0.1495633  0.13079333 -0.2548167
## group_factorContact Eczema     0.09745667  0.1606467  0.04585667 -0.2466533
## group_factorControl           0.18795667  0.3595867 -0.02483333  0.2675433
## group_factorLichen Planus     -0.02604000  0.1676767 -0.06709000 -0.2535800
## group_factorPsoriasis Vulgaris -0.16630333 -0.5537100 -0.65979667  0.1140200
##                                [,1502]    [,1503]    [,1504]    [,1505]
## (Intercept)                   -0.3434467 -0.22024000 -0.19607000 -0.262033333
## group_factorContact Eczema     0.1260800 -0.09471333  0.04079333 -0.003233333
## group_factorControl           0.1908900  0.30080667  0.22061000  0.264390000
## group_factorLichen Planus     -0.0181200 -0.06025000 -0.22401667  0.085240000
## group_factorPsoriasis Vulgaris -0.0035500 -0.07204667 -0.02332333 -0.200416667
##                                [,1506]    [,1507]    [,1508]    [,1509]
## (Intercept)                   -0.21412000 -0.41138333 -0.2677300 -0.01567333
## group_factorContact Eczema     0.04287000  0.04593333  0.1734500  0.08292333
## group_factorControl           0.36063000  0.20866000  0.1775900  0.18676000
## group_factorLichen Planus     -0.07649667 -0.20783667  0.1956000 -0.11481333
## group_factorPsoriasis Vulgaris -0.14696000  0.12304333 -0.3423433 -0.35307333
##                                [,1510]    [,1511]    [,1512]    [,1513]
## (Intercept)                   -0.56632667 -0.1858067  0.4231933  0.13352667
## group_factorContact Eczema     0.07349667 -0.1714667 -0.1358200  0.00611000
## group_factorControl           0.39974000  0.3131433 -0.3714600 -0.15321000
## group_factorLichen Planus     -0.29693333 -0.2327733 -0.8757800  0.11832333
## group_factorPsoriasis Vulgaris 0.09735000 -0.2064300  2.5341033 -0.03243667

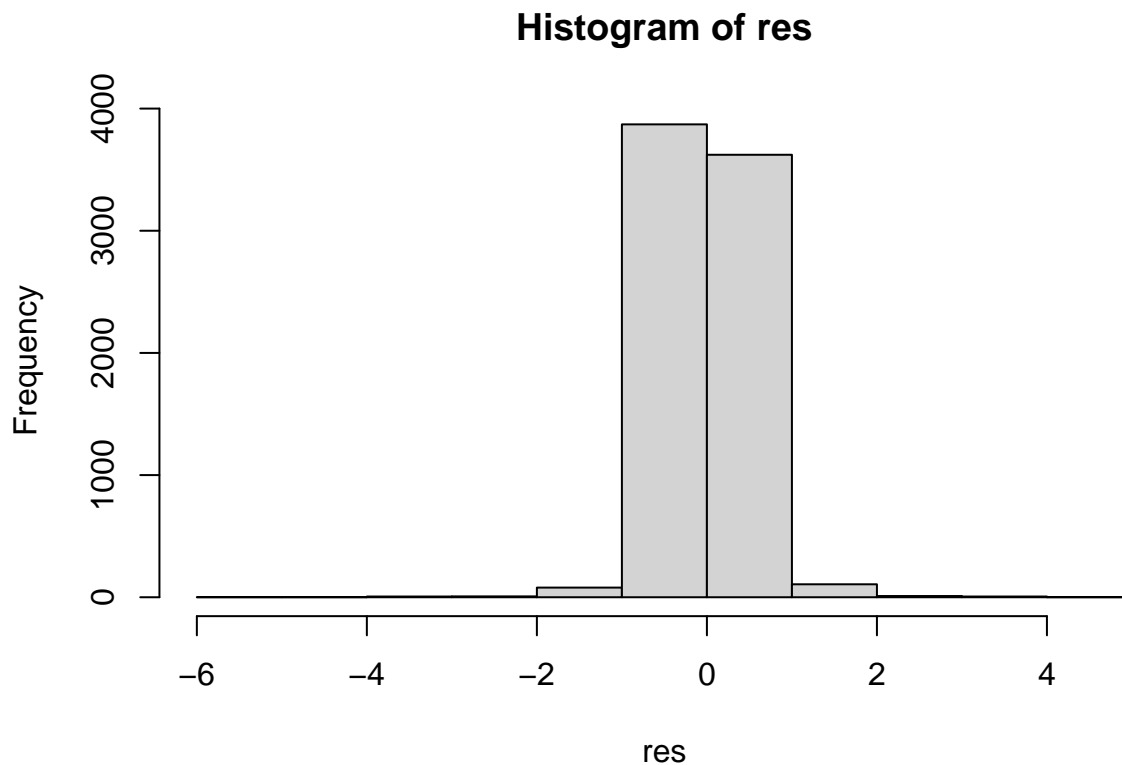
```

```

##              [,1514]      [,1515]      [,1516]      [,1517]
## (Intercept)    -0.52861667  0.19735000  0.23645000  0.19088667
## group_factorContact Eczema    -0.03703000  0.05482667  0.22568000 -0.17946333
## group_factorControl      0.45957333 -0.26683000 -0.06646000 -0.07478333
## group_factorLichen Planus    -0.13158667 -0.05530000  0.04065333 -0.48369000
## group_factorPsoriasis Vulgaris 0.02542667  0.11479000 -0.41913667  0.37014333
##              [,1518]      [,1519]      [,1520]      [,1521]
## (Intercept)    -0.03952667  0.006363333 -0.01560667  0.16391333
## group_factorContact Eczema    -0.13188000 -0.15707667  0.09993000 -0.04253667
## group_factorControl      -0.01687667  0.15806667 -0.18920667 -0.11882000
## group_factorLichen Planus    -0.21414000  0.25766000 -0.08545333 -0.08374667
## group_factorPsoriasis Vulgaris -0.23925333 -0.12492333  0.19131333 -0.15099667
##              [,1522]      [,1523]      [,1524]      [,1525]
## (Intercept)      0.01151333 -0.9703233  3.7269767  0.00729667
## group_factorContact Eczema    -0.09104000 -0.8529133 -1.1652867 -0.01161667
## group_factorControl      0.02576333  1.2838400 -3.9655367 -0.10167667
## group_factorLichen Planus    -0.25896000  0.9830367 -0.8779667  0.03679333
## group_factorPsoriasis Vulgaris -0.28288667  0.1352633  0.6342500  0.53928333
##              [,1526]      [,1527]      [,1528]      [,1529]
## (Intercept)      0.09422333  0.04299333 -0.0055900  0.14646667
## group_factorContact Eczema    -0.01100667 -0.05233667 -0.0638600  0.05303667
## group_factorControl      -0.13481333 -0.05903333  0.0393600 -0.25087000
## group_factorLichen Planus    -0.07136667 -0.06681333 -0.1323133 -0.11792333
## group_factorPsoriasis Vulgaris 0.05812667 -0.06991667  0.0539900  0.01308000
##              [,1530]      [,1531]      [,1532]      [,1533]
## (Intercept)    -0.38768333 -0.0412400 -0.05028333 -0.1702133
## group_factorContact Eczema    0.29205000 -0.2059767  0.07644000 -0.1763733
## group_factorControl      0.43941000  0.1872400  0.11563333  0.3212133
## group_factorLichen Planus    0.01081667  0.1198300 -0.03381333 -0.2490367
## group_factorPsoriasis Vulgaris 0.08918000 -0.1634567 -0.14051000  0.0144100
##              [,1534]      [,1535]      [,1536]      [,1537]
## (Intercept)    -0.23524000  0.42848333  1.0710800  0.05681667
## group_factorContact Eczema    0.01185333  0.21161667 -0.6611100 -0.27318667
## group_factorControl      0.04168667 -0.61708000 -0.9606133  0.06604333
## group_factorLichen Planus    0.08307000  0.07932667 -0.1193267  1.08985333
## group_factorPsoriasis Vulgaris 0.25579667  0.28747000  0.5713467 -0.11101667
##              [,1538]      [,1539]      [,1540]      [,1541]
## (Intercept)    -0.183250000 -0.158703333 -0.8611500  0.1261567
## group_factorContact Eczema    0.150146667 -0.007826667 -0.7606667  0.0442500
## group_factorControl      0.097040000  0.018136667  1.2722433 -0.1249167
## group_factorLichen Planus    -0.004116667  0.049626667  0.6668800  0.1377967
## group_factorPsoriasis Vulgaris -0.078226667  0.073053333 -0.0145400 -0.3110800
##              [,1542]
## (Intercept)      0.21159667
## group_factorContact Eczema    0.43074333
## group_factorControl      -0.21049667
## group_factorLichen Planus    0.20300000
## group_factorPsoriasis Vulgaris -0.01400333

```

```
hist(res)
```



```
sum(res < -0.05)
```

```
## [1] 3327
```

3. Adjust the p-values using the FDR method. (20pts)

```
adjusted_pvalue <- p.adjust(res, method = "fdr")
```

4. Gene regulation: How many genes have an adjusted p-value < 0.05 in at least one skin disease? (10pts) In total, 4336 genes had an adjusted p value above 0.05. In Eczema alone, there were 869 genes that have an adjusted p-value over 0.05

```
sum(adjusted_pvalue < 0.05)
```

```
## [1] 4336
```

```
eczema <- res[2,]
adjusted_eczema <- p.adjust(eczema, method = "fdr")
sum(adjusted_eczema < 0.05)
```

```
## [1] 869
```

unrelated test:

```
#subset data into control and treatment dataframes
```

```
control_df <- GSE63741[ ,2:32]
```

```
treated_df <- GSE63741[ ,33:151]
```

```
head(control_df)
```

```
##      GSM1556392 GSM1556393 GSM1556394 GSM1556395 GSM1556396 GSM1556397 GSM1556398
## 1      -0.6993      -0.4934       0.5509      -0.4515      -0.1735      -0.1904       2.2204
## 2       0.2822      -0.0083       0.1200      -0.1203       0.0694      -0.1778       0.2802
## 3      -0.0570       0.3741       0.2211       0.5450       0.7544       0.1356       0.3549
## 4      -0.3774       0.0224       0.7869      -0.4152      -0.3905       0.1328       1.8175
## 5       0.1696       0.0194      -0.0679       0.1179       1.2186       0.5405       1.1863
## 6       0.1117      -0.5779      -0.5940      -0.3245       0.4999      -0.4563       2.1098
##      GSM1556399 GSM1556400 GSM1556401 GSM1556402 GSM1556403 GSM1556404 GSM1556405
## 1      -1.2883      -0.2921      -1.0131      -1.2474      -0.4971       0.2244      -0.2099
## 2      -0.4640       0.2934       0.3390       0.2935       0.5517      -0.0064      -0.1674
## 3       0.5326       0.2056       0.1683       0.6975       0.2278      -0.1554       0.4804
## 4      -0.8400      -0.1651      -0.0316      -0.4353      -0.8338       0.3637      -0.0537
## 5       0.3580       0.2543      -0.4171       0.3725       1.5596      -0.3998       0.1332
## 6      -0.1679      -1.7652       0.0890      -0.7433      -0.3835      -0.2478      -0.3297
##      GSM1556406 GSM1556407 GSM1556408 GSM1556409 GSM1556410 GSM1556411 GSM1556412
## 1      -0.3982      -0.5971      -0.3420       0.1576      -0.1873       0.4438      -1.6362
## 2       0.3283      -0.2764      -0.3907      -0.0441      -0.2122       0.4669      -0.2391
## 3       0.5702      -0.3757      -0.0979       0.0000       0.4112       0.1056      -0.4727
## 4      -0.1124      -0.1872       0.0136       0.3441      -0.0072       0.5137      -0.9779
## 5       0.3415       0.0627      -0.0263      -0.1650      -0.5200       0.0669      -0.2585
## 6      -0.1671      -0.5028      -0.4399      -0.1795      -0.1424       0.0522      -0.1279
##      GSM1556413 GSM1556414 GSM1556415 GSM1556416 GSM1556417 GSM1556418 GSM1556419
## 1      -0.0798      -1.6305       0.0361       0.2166      -0.5724       0.2058       1.1304
## 2       0.7435       0.0097      -0.2071       0.1969       0.0717      -0.1110       0.7521
## 3       0.0545      -1.4602      -0.0915       0.4507      -0.1659      -0.2022       2.1259
## 4       0.0170      -0.0079      -0.2071       0.3180       0.2612       0.3617       1.1090
## 5       0.1444      -1.1668       1.0033       0.1579       0.1608       0.0107       1.3873
## 6      -0.6236       0.0000      -0.1743       0.2460      -0.1914      -0.1600       0.8210
##      GSM1556420 GSM1556421 GSM1556422
## 1      -0.2907      -0.1527      -0.5363
## 2       0.9689       0.5902       0.0657
## 3       0.3239      -0.0539       0.1660
## 4       0.2073       0.2193      -0.3873
## 5       0.8485       0.1204      -0.0902
## 6       0.3897       0.2459       0.8268
```

```
head(treated_df)
```

```
##      GSM1556423 GSM1556424 GSM1556425 GSM1556426 GSM1556427 GSM1556428 GSM1556429
## 1       1.0992      -0.0265       0.0041      -0.8048      -0.1102       0.6465       0.8714
## 2       0.5549       0.1792       0.0662      -0.2194       0.0433       0.3238      -0.1218
## 3       0.4107      -0.3648       0.1064       0.8131      -0.2293       0.2332      -0.0850
## 4       1.4174       0.2671      -0.3541      -1.1262      -0.9158       0.3627       0.1117
## 5       2.1307      -0.2444      -0.0425      -0.2581      -0.0808       0.2690       0.1401
## 6      -0.3891       0.0532      -0.6058      -0.0746       0.2567       0.4566      -0.2306
##      GSM1556430 GSM1556431 GSM1556432 GSM1556433 GSM1556434 GSM1556435 GSM1556436
## 1      -0.3670       0.2248      -0.2125       0.0529      -0.1640      -0.6221       0.5945
```


## 2	-0.2355	1.2214	0.6463	-0.2018	1.3503	-1.4536	0.5021
## 3	-0.0367	0.8416	0.4359	0.1579	0.2415	-0.3721	0.3828
## 4	-0.5451	-0.1438	0.1885	-0.5764	0.3119	-1.1065	0.3368
## 5	0.1959	1.9724	0.3692	-0.1665	0.4523	-0.3719	0.0159
## 6	-0.0376	0.2640	0.2913	0.3684	-0.8602	-0.2658	-0.2820
##	GSM1556437	GSM1556438	GSM1556439	GSM1556440	GSM1556441	GSM1556442	GSM1556443
## 1	-0.4653	0.3304	0.5888	-0.4639	0.8639	0.7538	-0.2035
## 2	0.4565	0.2869	0.0435	0.2401	0.0305	0.4092	0.2317
## 3	-0.2167	-0.1358	0.1727	-0.1633	0.0412	0.0007	-0.5675
## 4	-1.4809	0.0049	1.0729	-0.1815	0.4504	0.9654	0.2023
## 5	0.0854	-0.0653	0.7950	-0.0125	0.0344	-0.0654	0.1082
## 6	0.1441	-0.0743	-0.4281	-0.4887	-0.8421	-0.5468	-0.2402
##	GSM1556444	GSM1556445	GSM1556446	GSM1556447	GSM1556448	GSM1556449	GSM1556450
## 1	0.7055	-0.2545	-0.7810	-0.1921	0.5473	-0.2998	1.1412
## 2	-0.1454	0.2114	-0.4912	-0.0424	0.1425	-0.3321	0.3961
## 3	-1.4906	-0.0825	0.4070	-1.1635	-0.0170	-0.1992	0.9309
## 4	0.2165	-0.0523	-0.5660	-0.5342	0.4911	-0.0524	0.7743
## 5	1.5034	0.0510	0.0682	0.1548	-0.3936	-0.2289	0.0490
## 6	0.4832	0.2935	-0.1714	0.4099	0.0896	0.2245	1.4283
##	GSM1556451	GSM1556452	GSM1556453	GSM1556454	GSM1556455	GSM1556456	GSM1556457
## 1	-0.6878	-0.0422	0.1580	-0.6568	0.2368	0.2232	-0.5261
## 2	0.5127	-0.1857	0.1759	0.2787	0.1013	-0.0134	-0.0006
## 3	0.2654	-0.0683	0.0386	-0.1170	-0.2997	-0.0657	0.3420
## 4	0.0619	0.2259	0.0647	-0.8267	0.4225	0.1519	-0.1239
## 5	-1.6247	0.2673	0.0091	-0.0811	0.4620	0.2810	0.1362
## 6	-0.0620	0.4004	0.4237	0.7132	0.5776	0.4980	0.0424
##	GSM1556458	GSM1556459	GSM1556460	GSM1556461	GSM1556462	GSM1556463	GSM1556464
## 1	-1.3280	0.2861	0.3597	0.2116	-0.3554	-1.9436	0.5361
## 2	1.2953	0.2248	0.3967	0.2801	0.1671	1.3911	0.5483
## 3	-0.1593	-0.9155	-0.3243	-0.1576	0.0929	-0.0341	-0.1638
## 4	-0.0301	0.5415	0.0444	-0.3264	-0.4134	-0.9926	0.8137
## 5	-0.0606	0.0163	-1.1708	-0.0426	-0.1027	1.6200	-0.4269
## 6	0.0689	-0.4099	0.2005	0.2171	1.0855	-0.0818	1.1227
##	GSM1556465	GSM1556466	GSM1556467	GSM1556468	GSM1556469	GSM1556470	GSM1556471
## 1	-0.2606	-0.3874	-0.0404	-1.3156	-0.9542	-0.6036	-0.2002
## 2	0.5056	0.1228	0.2546	0.3724	0.2641	0.3213	0.2723
## 3	-0.5549	0.6432	-0.0807	-0.5637	-0.0880	0.5957	0.8454
## 4	-0.9421	0.0623	0.3633	-1.2941	-0.0098	-0.8867	-0.0148
## 5	0.2156	0.0127	0.1622	-0.0066	0.2812	-0.0277	0.7961
## 6	0.1533	-0.2562	0.2700	0.0844	-0.4242	0.0789	-0.0091
##	GSM1556472	GSM1556473	GSM1556474	GSM1556475	GSM1556476	GSM1556477	GSM1556478
## 1	0.8389	-0.8018	-0.4436	-0.1531	-0.1725	-0.8192	0.0668
## 2	0.4211	1.2530	0.1773	0.6783	2.8556	-0.0827	0.4320
## 3	0.7630	0.3881	-0.1969	-0.3062	-0.4338	0.8248	-0.0545
## 4	-0.8447	-0.0997	-1.3909	-0.8681	-1.0401	-0.6213	0.3699
## 5	-1.0333	0.6426	0.5259	0.1440	0.2956	0.1726	0.1676
## 6	0.3523	0.8837	0.7601	0.5055	0.5129	-0.1960	-0.0947
##	GSM1556479	GSM1556480	GSM1556481	GSM1556482	GSM1556483	GSM1556484	GSM1556485
## 1	0.3107	-0.2148	-0.3483	1.1313	1.6353	1.2607	0.5791
## 2	0.4046	-0.1440	1.1242	0.3812	0.7220	0.3073	0.2563
## 3	0.7928	0.5105	0.3270	-0.1778	0.6765	0.5809	0.0607
## 4	-0.9754	-0.2247	-1.2609	1.6929	1.2669	0.5643	0.7879
## 5	0.8578	0.1569	0.2145	0.2530	-0.6525	0.1838	-0.2583
## 6	1.0571	0.2794	0.8712	-0.1672	-0.0004	-0.0804	0.1270

##	GSM1556486	GSM1556487	GSM1556488	GSM1556489	GSM1556490	GSM1556491	GSM1556492
## 1	0.1781	0.1911	0.6108	-1.0345	0.6274	-0.6185	0.0750
## 2	0.0620	0.4242	0.1122	0.3229	0.5828	0.3654	0.6347
## 3	-0.0058	-0.5741	-0.1700	-1.1242	1.7368	-0.8664	-0.3926
## 4	0.3260	0.0462	0.6658	-0.5771	0.9486	0.9336	-0.8131
## 5	-0.0445	0.1924	-0.1113	-0.6985	-0.7961	-0.4142	-0.1683
## 6	0.0124	-0.4984	0.0444	-0.1146	-0.2671	-0.1287	-0.2855
##	GSM1556493	GSM1556494	GSM1556495	GSM1556496	GSM1556497	GSM1556498	GSM1556499
## 1	1.8264	1.1630	0.1700	-0.0002	0.4414	0.1601	0.5636
## 2	0.4159	0.0388	0.4020	0.1591	0.5584	-0.0953	-0.3979
## 3	-0.0172	-0.4175	-0.0376	0.0076	0.0279	-0.3707	-0.1318
## 4	3.5137	2.5013	0.4893	0.0681	0.7164	0.0471	0.8536
## 5	1.4702	0.5915	-0.0531	-0.2840	-0.1454	-0.2966	-0.6803
## 6	-0.1241	2.0615	0.0421	0.0599	-0.0382	0.1119	0.2058
##	GSM1556500	GSM1556501	GSM1556502	GSM1556503	GSM1556504	GSM1556505	GSM1556506
## 1	0.0697	0.7952	1.1674	-0.0124	0.0009	0.2942	0.3489
## 2	0.2471	0.3549	0.2842	0.0173	0.1086	0.0830	-0.1356
## 3	0.1474	0.1400	0.2110	-0.6682	-0.4305	-0.1548	-0.1755
## 4	0.3708	1.1333	1.2973	0.2305	0.2217	0.2891	0.4048
## 5	-0.2873	-0.0737	-0.0077	-0.2126	-0.1140	-0.2432	0.0566
## 6	0.3479	0.6577	0.0069	-0.1399	-0.0706	0.1474	0.1060
##	GSM1556507	GSM1556508	GSM1556509	GSM1556510	GSM1556511	GSM1556512	GSM1556513
## 1	1.7786	0.4867	-0.7754	1.6934	-0.5102	0.5327	0.3077
## 2	1.9083	-0.9970	0.3614	-0.2853	0.4054	0.3524	0.6692
## 3	-0.8554	1.8819	-0.2004	-0.3729	-0.7812	0.4208	0.0712
## 4	1.4455	-0.0588	-0.8406	2.2498	-0.3127	0.6377	-0.0064
## 5	-0.6983	-0.4178	0.2748	-1.2557	0.0193	0.0570	1.9444
## 6	0.3095	-0.2706	-0.0176	-0.1384	-0.0250	-0.3404	0.5390
##	GSM1556514	GSM1556515	GSM1556516	GSM1556517	GSM1556518	GSM1556519	GSM1556520
## 1	0.5796	0.1797	1.2284	0.1267	0.5751	0.5157	0.2929
## 2	0.3989	0.7408	0.7842	0.4360	0.5615	0.8465	0.6338
## 3	-0.1828	0.3704	0.1804	0.3905	-0.0854	0.3621	0.0997
## 4	0.9696	0.4688	0.4703	-0.2721	-0.0330	0.7225	0.0296
## 5	0.4393	1.4929	0.5456	0.1304	0.3945	0.7174	0.8109
## 6	-0.0273	0.5925	0.5413	0.3618	0.7478	0.4853	0.8337
##	GSM1556521	GSM1556522	GSM1556523	GSM1556524	GSM1556525	GSM1556526	GSM1556527
## 1	-0.2051	1.2112	0.1914	0.8350	0.4226	0.1045	0.9151
## 2	0.5032	0.2515	0.0112	-0.6011	0.4403	1.1677	0.5111
## 3	-0.3485	-0.0443	-0.0957	0.4352	0.2388	1.2358	0.3229
## 4	-0.6053	0.7347	0.0248	0.4434	0.3907	-0.6142	1.6634
## 5	1.2506	0.1868	-0.0018	1.4322	1.6873	0.3733	-0.0171
## 6	1.1541	0.2286	0.1447	-0.3038	0.6037	1.0828	0.1519
##	GSM1556528	GSM1556529	GSM1556530	GSM1556531	GSM1556532	GSM1556533	GSM1556534
## 1	1.7919	0.5280	1.1263	1.7295	0.0810	0.1057	0.6195
## 2	0.0498	0.9821	0.5327	2.1930	-0.2089	0.1980	0.0365
## 3	0.6501	0.1636	0.5697	1.7051	-0.2664	0.0777	-0.0105
## 4	-0.0168	0.8386	0.5349	1.2878	-0.3985	0.5979	-0.0042
## 5	0.8143	1.5241	1.2937	4.2058	0.2606	-0.1735	1.0191
## 6	0.9898	0.5778	0.5610	1.9503	-0.4368	-0.4755	0.2770
##	GSM1556535	GSM1556536	GSM1556537	GSM1556538	GSM1556539	GSM1556540	GSM1556541
## 1	0.1223	1.9150	-0.0929	-0.1236	1.4730	0.9669	0.1110
## 2	-0.0753	-0.1833	0.9970	0.4887	0.7410	0.1347	0.7362
## 3	0.6973	-0.1782	-0.1297	0.1859	0.4133	0.7249	0.3471
## 4	0.2653	2.2417	-0.2732	0.0552	2.6820	1.8280	-0.5709

```
## 5      0.1569      -0.0700      0.3950      0.2445      0.9167      1.1415      0.3400
## 6     -0.4402     -0.1051      0.6891      0.1092      0.8577     -0.0853      1.0160
```

```
#calculate the means of each row, then save those means in a vector
```

```
control_means <- rowMeans(control_df)
```

```
treated_means <- rowMeans(treated_df)
```

```
#testing to see lm between vector of means
```

```
head(control_means)
```

```
## [1] -0.25139355  0.12898387  0.18622258  0.03414839  0.22976452 -0.09377419
```

```
lm(control_means ~ treated_means)
```

```
##
```

```
## Call:
```

```
## lm(formula = control_means ~ treated_means)
```

```
##
```

```
## Coefficients:
```

```
##      (Intercept)      treated_means
```

```
##      -0.003330      -0.005391
```