#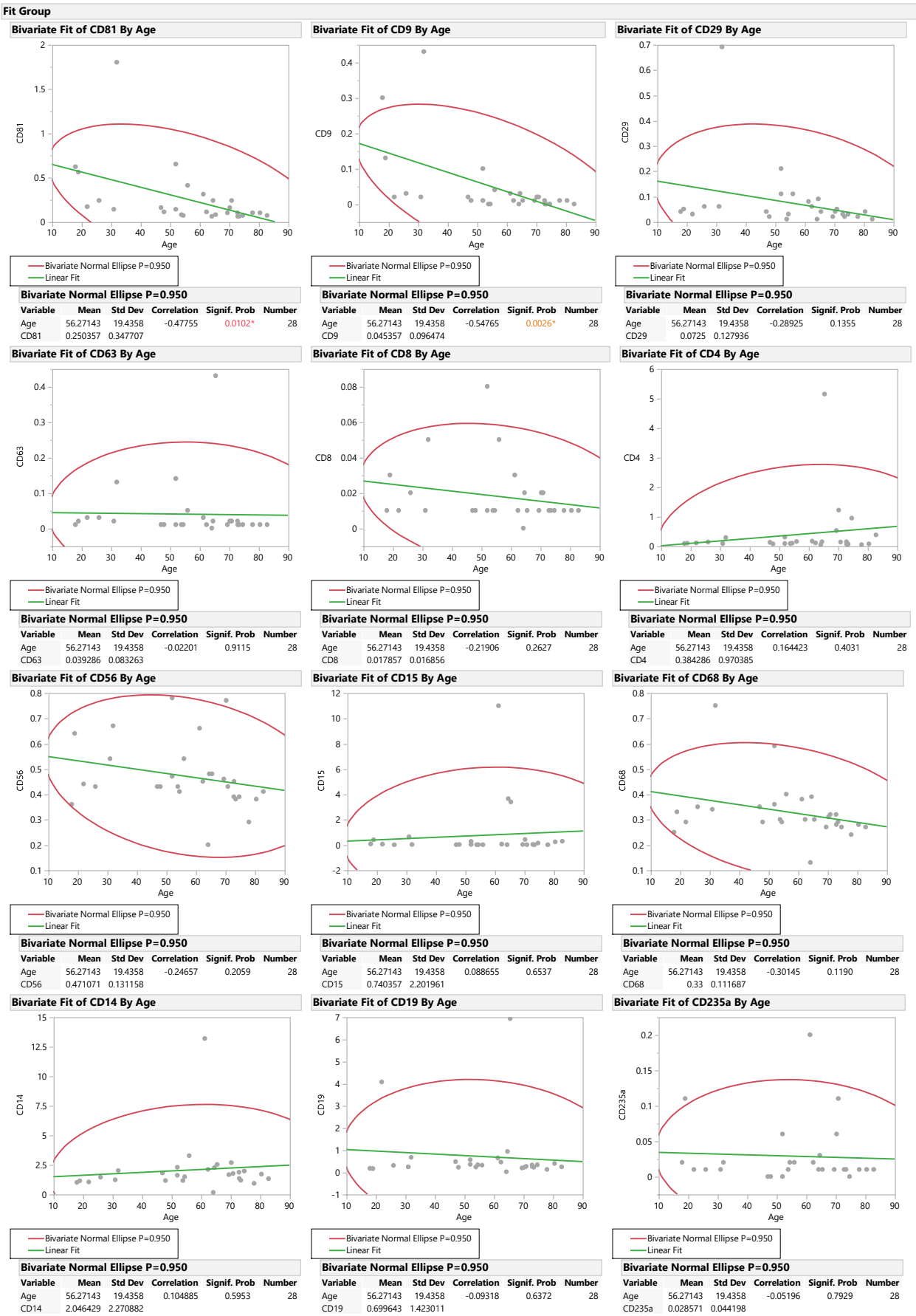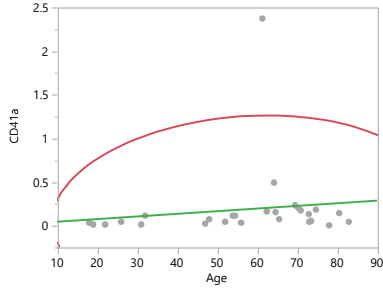 Additional file 6: Figure S5. Univariable regressions between age and the expression levels of surface markers in the subsets of plasma EVs of HCs.

**SEV**

**Fit Group**

### Bivariate Fit of CD81 By Age

**Bivariate Normal Ellipse P=0.950**
— Bivariate Normal Ellipse P=0.950
— Linear Fit

**Bivariate Normal Ellipse P=0.950**

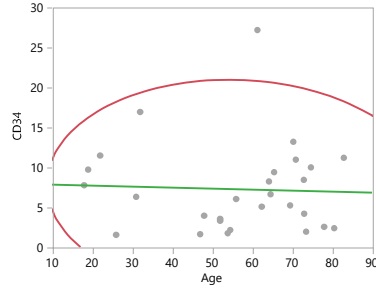| Variable | Mean | Std Dev | Correlation | Signif. Prob | Number |
|---|---|---|---|---|---|
| Age | 56.27143 | 19.4358 | -0.47755 | 0.0102* | 28 |
| CD81 | 0.250357 | 0.347707 | | | |

### Bivariate Fit of CD9 By Age

— Bivariate Normal Ellipse P=0.950
— Linear Fit

**Bivariate Normal Ellipse P=0.950**

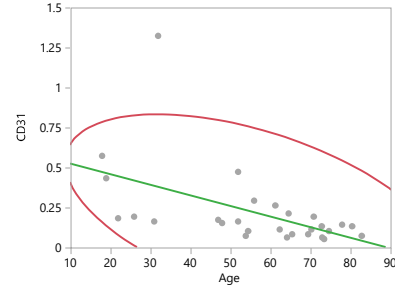| Variable | Mean | Std Dev | Correlation | Signif. Prob | Number |
|---|---|---|---|---|---|
| Age | 56.27143 | 19.4358 | -0.54765 | 0.0026* | 28 |
| CD9 | 0.045357 | 0.096474 | | | |

### Bivariate Fit of CD29 By Age

— Bivariate Normal Ellipse P=0.950
— Linear Fit

**Bivariate Normal Ellipse P=0.950**

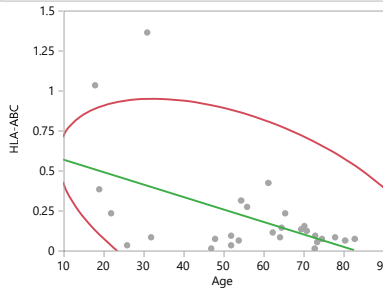| Variable | Mean | Std Dev | Correlation | Signif. Prob | Number |
|---|---|---|---|---|---|
| Age | 56.27143 | 19.4358 | -0.28925 | 0.1355 | 28 |
| CD29 | 0.0725 | 0.127936 | | | |

### Bivariate Fit of CD63 By Age

— Bivariate Normal Ellipse P=0.950
— Linear Fit

**Bivariate Normal Ellipse P=0.950**

| Variable | Mean | Std Dev | Correlation | Signif. Prob | Number |
|---|---|---|---|---|---|
| Age | 56.27143 | 19.4358 | -0.02201 | 0.9115 | 28 |
| CD63 | 0.039286 | 0.083263 | | | |

### Bivariate Fit of CD8 By Age

— Bivariate Normal Ellipse P=0.950
— Linear Fit

**Bivariate Normal Ellipse P=0.950**

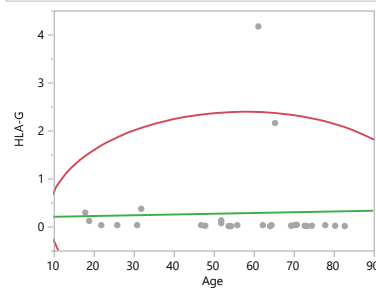| Variable | Mean | Std Dev | Correlation | Signif. Prob | Number |
|---|---|---|---|---|---|
| Age | 56.27143 | 19.4358 | -0.21906 | 0.2627 | 28 |
| CD8 | 0.017857 | 0.016856 | | | |

### Bivariate Fit of CD4 By Age

— Bivariate Normal Ellipse P=0.950
— Linear Fit

**Bivariate Normal Ellipse P=0.950**

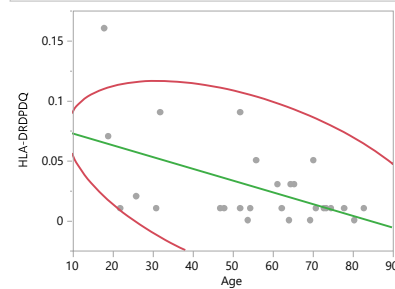| Variable | Mean | Std Dev | Correlation | Signif. Prob | Number |
|---|---|---|---|---|---|
| Age | 56.27143 | 19.4358 | 0.164423 | 0.4031 | 28 |
| CD4 | 0.384286 | 0.970385 | | | |

### Bivariate Fit of CD56 By Age

— Bivariate Normal Ellipse P=0.950
— Linear Fit

**Bivariate Normal Ellipse P=0.950**

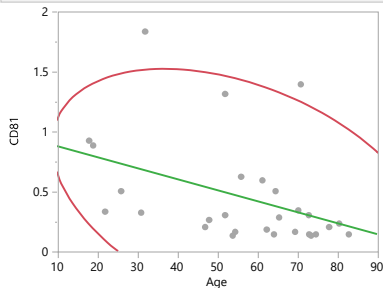| Variable | Mean | Std Dev | Correlation | Signif. Prob | Number |
|---|---|---|---|---|---|
| Age | 56.27143 | 19.4358 | -0.24657 | 0.2059 | 28 |
| CD56 | 0.471071 | 0.131158 | | | |

### Bivariate Fit of CD15 By Age

— Bivariate Normal Ellipse P=0.950
— Linear Fit

**Bivariate Normal Ellipse P=0.950**

| Variable | Mean | Std Dev | Correlation | Signif. Prob | Number |
|---|---|---|---|---|---|
| Age | 56.27143 | 19.4358 | 0.088655 | 0.6537 | 28 |
| CD15 | 0.740357 | 2.201961 | | | |

### Bivariate Fit of CD68 By Age

— Bivariate Normal Ellipse P=0.950
— Linear Fit

**Bivariate Normal Ellipse P=0.950**

| Variable | Mean | Std Dev | Correlation | Signif. Prob | Number |
|---|---|---|---|---|---|
| Age | 56.27143 | 19.4358 | -0.30145 | 0.1190 | 28 |
| CD68 | 0.33 | 0.111687 | | | |

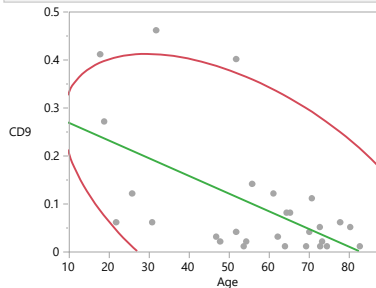### Bivariate Fit of CD14 By Age

— Bivariate Normal Ellipse P=0.950
— Linear Fit

**Bivariate Normal Ellipse P=0.950**

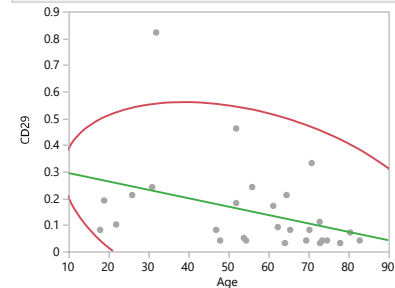| Variable | Mean | Std Dev | Correlation | Signif. Prob | Number |
|---|---|---|---|---|---|
| Age | 56.27143 | 19.4358 | 0.104885 | 0.5953 | 28 |
| CD14 | 2.046429 | 2.270882 | | | |

### Bivariate Fit of CD19 By Age

— Bivariate Normal Ellipse P=0.950
— Linear Fit

**Bivariate Normal Ellipse P=0.950**

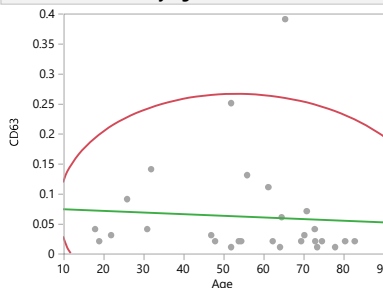| Variable | Mean | Std Dev | Correlation | Signif. Prob | Number |
|---|---|---|---|---|---|
| Age | 56.27143 | 19.4358 | -0.09318 | 0.6372 | 28 |
| CD19 | 0.699643 | 1.423011 | | | |

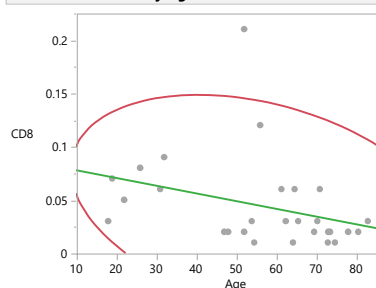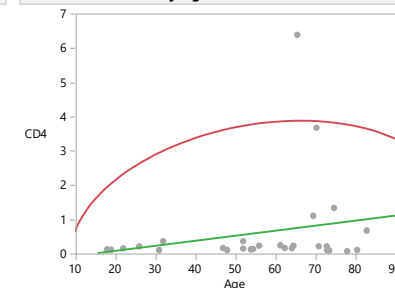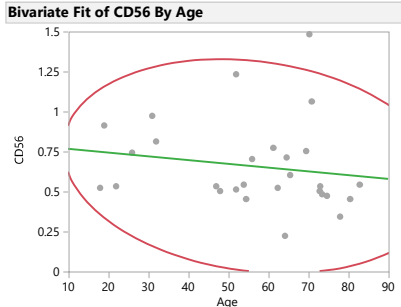### Bivariate Fit of CD235a By Age

— Bivariate Normal Ellipse P=0.950
— Linear Fit

**Bivariate Normal Ellipse P=0.950**

| Variable | Mean | Std Dev | Correlation | Signif. Prob | Number |
|---|---|---|---|---|---|
| Age | 56.27143 | 19.4358 | -0.05196 | 0.7929 | 28 |
| CD235a | 0.028571 | 0.044198 | | | |

**Bivariate Fit of CD41a By Age**



**Bivariate Normal Ellipse P=0.950**

| Variable | Mean | Std Dev | Correlation | Signif. Prob | Number |
|---|---|---|---|---|---|
| Age | 56.27143 | 19.4358 | 0.133667 | 0.4977 | 28 |
| CD41a | 0.180357 | 0.440711 | | | |

**Bivariate Fit of CD34 By Age**



**Bivariate Normal Ellipse P=0.950**

| Variable | Mean | Std Dev | Correlation | Signif. Prob | Number |
|---|---|---|---|---|---|
| Age | 56.27143 | 19.4358 | -0.04317 | 0.8273 | 28 |
| CD34 | 7.221429 | 5.599063 | | | |

**Bivariate Fit of CD31 By Age**



**Bivariate Normal Ellipse P=0.950**

| Variable | Mean | Std Dev | Correlation | Signif. Prob | Number |
|---|---|---|---|---|---|
| Age | 56.27143 | 19.4358 | -0.51232 | 0.0053* | 28 |
| CD31 | 0.215714 | 0.251152 | | | |

**Bivariate Fit of HLA-ABC By Age**



**Bivariate Normal Ellipse P=0.950**

| Variable | Mean | Std Dev | Correlation | Signif. Prob | Number |
|---|---|---|---|---|---|
| Age | 56.27143 | 19.4358 | -0.50082 | 0.0066* | 28 |
| HLA-ABC | 0.205714 | 0.302366 | | | |

**Bivariate Fit of HLA-G By Age**



**Bivariate Normal Ellipse P=0.950**

| Variable | Mean | Std Dev | Correlation | Signif. Prob | Number |
|---|---|---|---|---|---|
| Age | 56.27143 | 19.4358 | 0.036466 | 0.8538 | 28 |
| HLA-G | 0.267857 | 0.864147 | | | |

**Bivariate Fit of HLA-DRDPDQ By Age**



**Bivariate Normal Ellipse P=0.950**

| Variable | Mean | Std Dev | Correlation | Signif. Prob | Number |
|---|---|---|---|---|---|
| Age | 56.27143 | 19.4358 | -0.52455 | 0.0042* | 28 |
| HLA-DRDPDQ | 0.027143 | 0.036297 | | | |

**MEV** Fit Group

**Bivariate Fit of CD81 By Age**



**Bivariate Normal Ellipse P=0.950**

| Variable | Mean | Std Dev | Correlation | Signif. Prob | Number |
|---|---|---|---|---|---|
| Age | 56.27143 | 19.4358 | -0.40888 | 0.0307* | 28 |
| CD81 | 0.450714 | 0.436484 | | | |

**Bivariate Fit of CD9 By Age**



**Bivariate Normal Ellipse P=0.950**

| Variable | Mean | Std Dev | Correlation | Signif. Prob | Number |
|---|---|---|---|---|---|
| Age | 56.27143 | 19.4358 | -0.56072 | 0.0019* | 28 |
| CD9 | 0.0975 | 0.127994 | | | |

**Bivariate Fit of CD29 By Age**



**Bivariate Normal Ellipse P=0.950**

| Variable | Mean | Std Dev | Correlation | Signif. Prob | Number |
|---|---|---|---|---|---|
| Age | 56.27143 | 19.4358 | -0.36474 | 0.0563 | 28 |
| CD29 | 0.147143 | 0.168102 | | | |

**Bivariate Fit of CD63 By Age**



**Bivariate Normal Ellipse P=0.950**

| Variable | Mean | Std Dev | Correlation | Signif. Prob | Number |
|---|---|---|---|---|---|
| Age | 56.27143 | 19.4358 | -0.06301 | 0.7501 | 28 |
| CD63 | 0.060357 | 0.08382 | | | |

**Bivariate Fit of CD8 By Age**



**Bivariate Normal Ellipse P=0.950**

| Variable | Mean | Std Dev | Correlation | Signif. Prob | Number |
|---|---|---|---|---|---|
| Age | 56.27143 | 19.4358 | -0.3312 | 0.0851 | 28 |
| CD8 | 0.044286 | 0.042551 | | | |

**Bivariate Fit of CD4 By Age**

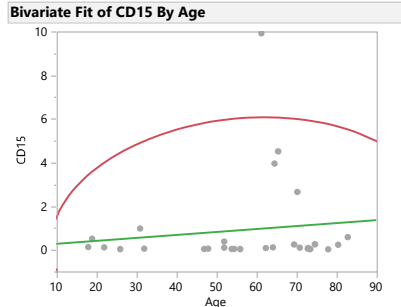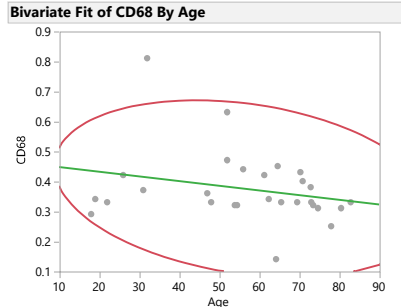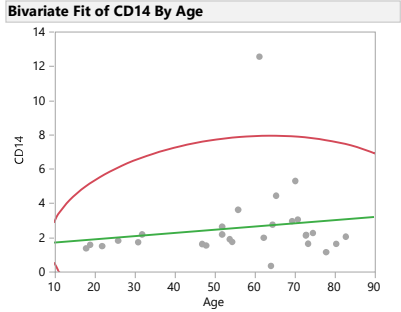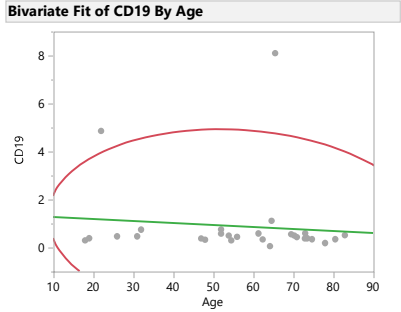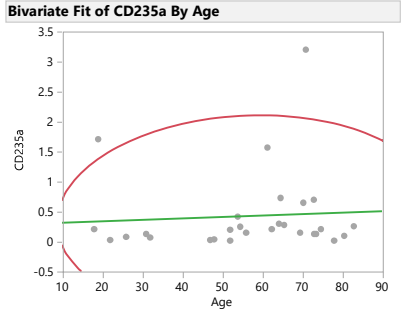

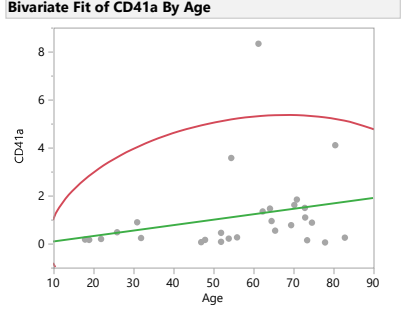**Bivariate Normal Ellipse P=0.950**

| Variable | Mean | Std Dev | Correlation | Signif. Prob | Number |
|---|---|---|---|---|---|
| Age | 56.27143 | 19.4358 | 0.213974 | 0.2742 | 28 |
| CD4 | 0.597143 | 1.334183 | | | |

## Bivariate Fit of CD56 By Age



Bivariate Normal Ellipse P=0.950
Linear Fit

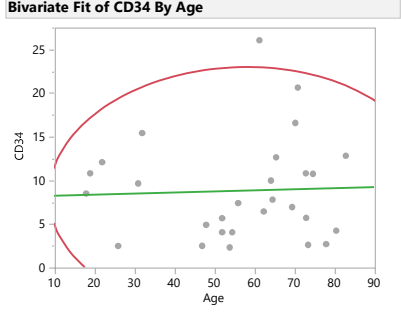### Bivariate Normal Ellipse P=0.950

| Variable | Mean | Std Dev | Correlation | Signif. Prob | Number |
|---|---|---|---|---|---|
| Age | 56.27143 | 19.4358 | -0.16788 | 0.3932 | 28 |
| CD56 | 0.655714 | 0.273339 | | | |

## Bivariate Fit of CD15 By Age



Bivariate Normal Ellipse P=0.950
Linear Fit

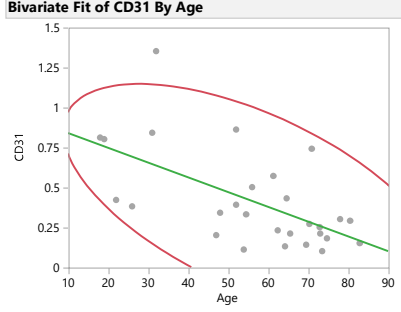### Bivariate Normal Ellipse P=0.950

| Variable | Mean | Std Dev | Correlation | Signif. Prob | Number |
|---|---|---|---|---|---|
| Age | 56.27143 | 19.4358 | 0.12599 | 0.5229 | 28 |
| CD15 | 0.882143 | 2.112703 | | | |

## Bivariate Fit of CD68 By Age



Bivariate Normal Ellipse P=0.950
Linear Fit

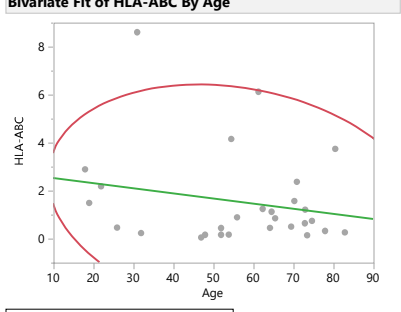### Bivariate Normal Ellipse P=0.950

| Variable | Mean | Std Dev | Correlation | Signif. Prob | Number |
|---|---|---|---|---|---|
| Age | 56.27143 | 19.4358 | -0.25124 | 0.1972 | 28 |
| CD68 | 0.375 | 0.120385 | | | |

## Bivariate Fit of CD14 By Age



Bivariate Normal Ellipse P=0.950
Linear Fit

### Bivariate Normal Ellipse P=0.950

| Variable | Mean | Std Dev | Correlation | Signif. Prob | Number |
|---|---|---|---|---|---|
| Age | 56.27143 | 19.4358 | 0.164496 | 0.4029 | 28 |
| CD14 | 2.524286 | 2.195069 | | | |

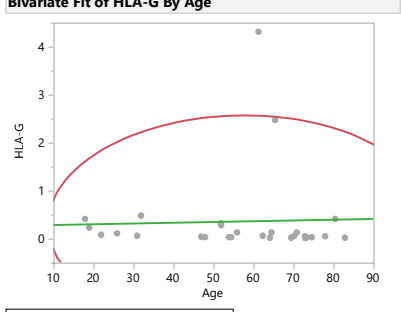## Bivariate Fit of CD19 By Age



Bivariate Normal Ellipse P=0.950
Linear Fit

### Bivariate Normal Ellipse P=0.950

| Variable | Mean | Std Dev | Correlation | Signif. Prob | Number |
|---|---|---|---|---|---|
| Age | 56.27143 | 19.4358 | -0.09731 | 0.6223 | 28 |
| CD19 | 0.873929 | 1.64989 | | | |

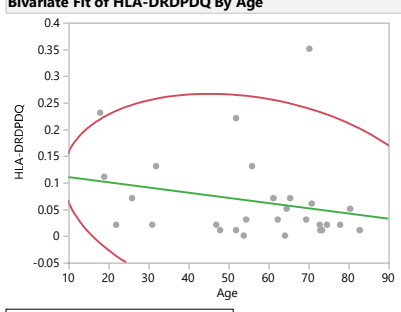## Bivariate Fit of CD235a By Age



Bivariate Normal Ellipse P=0.950
Linear Fit

### Bivariate Normal Ellipse P=0.950

| Variable | Mean | Std Dev | Correlation | Signif. Prob | Number |
|---|---|---|---|---|---|
| Age | 56.27143 | 19.4358 | 0.068334 | 0.7297 | 28 |
| CD235a | 0.417857 | 0.686296 | | | |

## Bivariate Fit of CD41a By Age



Bivariate Normal Ellipse P=0.950
Linear Fit

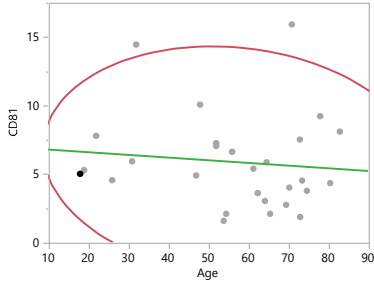### Bivariate Normal Ellipse P=0.950

| Variable | Mean | Std Dev | Correlation | Signif. Prob | Number |
|---|---|---|---|---|---|
| Age | 56.27143 | 19.4358 | 0.254364 | 0.1915 | 28 |
| CD41a | 1.112857 | 1.726038 | | | |

## Bivariate Fit of CD34 By Age



Bivariate Normal Ellipse P=0.950
Linear Fit

### Bivariate Normal Ellipse P=0.950

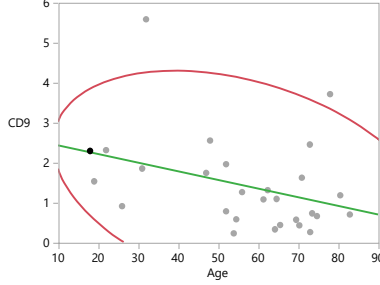| Variable | Mean | Std Dev | Correlation | Signif. Prob | Number |
|---|---|---|---|---|---|
| Age | 56.27143 | 19.4358 | 0.040541 | 0.8377 | 28 |
| CD34 | 8.745714 | 5.797205 | | | |

## Bivariate Fit of CD31 By Age



Bivariate Normal Ellipse P=0.950
Linear Fit

### Bivariate Normal Ellipse P=0.950

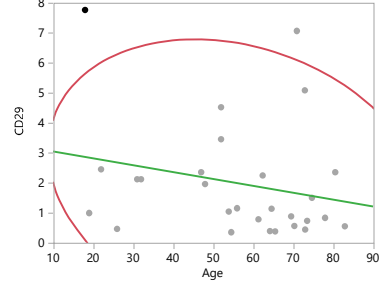| Variable | Mean | Std Dev | Correlation | Signif. Prob | Number |
|---|---|---|---|---|---|
| Age | 56.27143 | 19.4358 | -0.59872 | 0.0008* | 28 |
| CD31 | 0.411786 | 0.29968 | | | |

## Bivariate Fit of HLA-ABC By Age



Bivariate Normal Ellipse P=0.950
Linear Fit

### Bivariate Normal Ellipse P=0.950

| Variable | Mean | Std Dev | Correlation | Signif. Prob | Number |
|---|---|---|---|---|---|
| Age | 56.27143 | 19.4358 | -0.20649 | 0.2918 | 28 |
| HLA-ABC | 1.520714 | 1.995135 | | | |

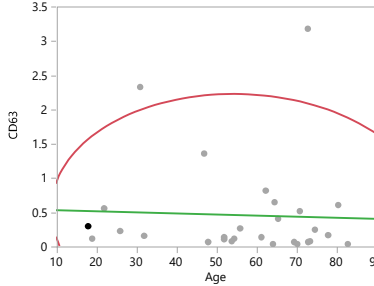## Bivariate Fit of HLA-G By Age



Bivariate Normal Ellipse P=0.950
Linear Fit

### Bivariate Normal Ellipse P=0.950

| Variable | Mean | Std Dev | Correlation | Signif. Prob | Number |
|---|---|---|---|---|---|
| Age | 56.27143 | 19.4358 | 0.033505 | 0.8656 | 28 |
| HLA-G | 0.348214 | 0.902195 | | | |

## Bivariate Fit of HLA-DRDPDQ By Age



Bivariate Normal Ellipse P=0.950
Linear Fit

### Bivariate Normal Ellipse P=0.950

| Variable | Mean | Std Dev | Correlation | Signif. Prob | Number |
|---|---|---|---|---|---|
| Age | 56.27143 | 19.4358 | -0.23086 | 0.2372 | 28 |
| HLA-DRDPDQ | 0.064286 | 0.082302 | | | |

Where(:Size == "6000")

**LEV**

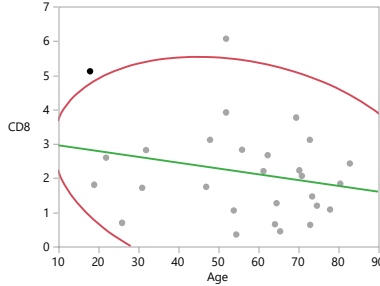### Bivariate Fit of CD81 By Age



Legend: Bivariate Normal Ellipse P=0.950 — Linear Fit

**Bivariate Normal Ellipse P=0.950**

| Variable | Mean | Std Dev | Correlation | Signif. Prob | Number |
|---|---|---|---|---|---|
| Age | 56.27143 | 19.4358 | -0.11118 | 0.5733 | 28 |
| CD81 | 5.845 | 3.440691 | | | |

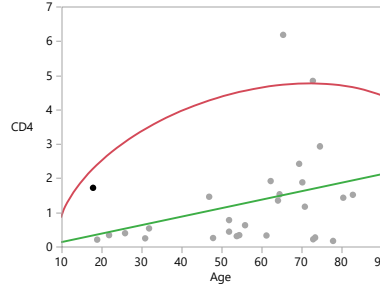### Bivariate Fit of CD9 By Age



Legend: Bivariate Normal Ellipse P=0.950 — Linear Fit

**Bivariate Normal Ellipse P=0.950**

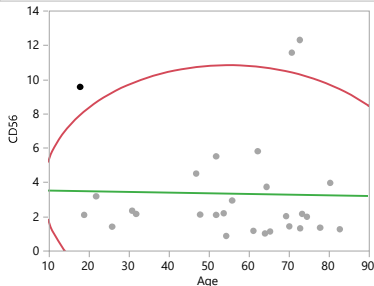| Variable | Mean | Std Dev | Correlation | Signif. Prob | Number |
|---|---|---|---|---|---|
| Age | 56.27143 | 19.4358 | -0.35882 | 0.0608 | 28 |
| CD9 | 1.423214 | 1.16972 | | | |

### Bivariate Fit of CD29 By Age



Legend: Bivariate Normal Ellipse P=0.950 — Linear Fit

**Bivariate Normal Ellipse P=0.950**

| Variable | Mean | Std Dev | Correlation | Signif. Prob | Number |
|---|---|---|---|---|---|
| Age | 56.27143 | 19.4358 | -0.22782 | 0.2436 | 28 |
| CD29 | 1.966429 | 1.958522 | | | |

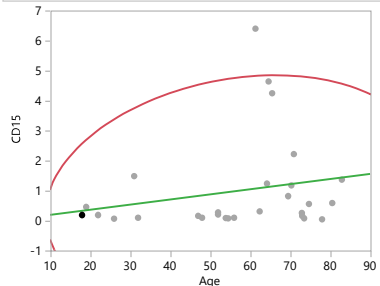### Bivariate Fit of CD63 By Age



Legend: Bivariate Normal Ellipse P=0.950 — Linear Fit

**Bivariate Normal Ellipse P=0.950**

| Variable | Mean | Std Dev | Correlation | Signif. Prob | Number |
|---|---|---|---|---|---|
| Age | 56.27143 | 19.4358 | -0.04142 | 0.8342 | 28 |
| CD63 | 0.452143 | 0.72201 | | | |

### Bivariate Fit of CD8 By Age



Legend: Bivariate Normal Ellipse P=0.950 — Linear Fit

**Bivariate Normal Ellipse P=0.950**

| Variable | Mean | Std Dev | Correlation | Signif. Prob | Number |
|---|---|---|---|---|---|
| Age | 56.27143 | 19.4358 | -0.23902 | 0.2206 | 28 |
| CD8 | 2.158571 | 1.374193 | | | |

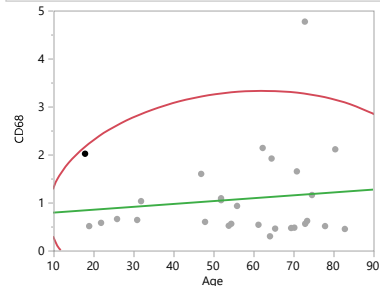### Bivariate Fit of CD4 By Age



Legend: Bivariate Normal Ellipse P=0.950 — Linear Fit

**Bivariate Normal Ellipse P=0.950**

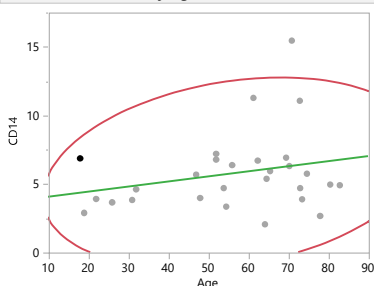| Variable | Mean | Std Dev | Correlation | Signif. Prob | Number |
|---|---|---|---|---|---|
| Age | 56.27143 | 19.4358 | 0.336811 | 0.0797 | 28 |
| CD4 | 1.26 | 1.424568 | | | |

### Bivariate Fit of CD56 By Age



Legend: Bivariate Normal Ellipse P=0.950 — Linear Fit

**Bivariate Normal Ellipse P=0.950**

| Variable | Mean | Std Dev | Correlation | Signif. Prob | Number |
|---|---|---|---|---|---|
| Age | 56.27143 | 19.4358 | -0.02485 | 0.9001 | 28 |
| CD56 | 3.286071 | 3.06521 | | | |

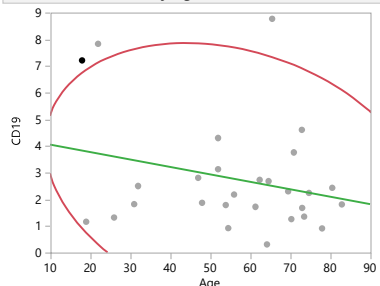### Bivariate Fit of CD15 By Age



Legend: Bivariate Normal Ellipse P=0.950 — Linear Fit

**Bivariate Normal Ellipse P=0.950**

| Variable | Mean | Std Dev | Correlation | Signif. Prob | Number |
|---|---|---|---|---|---|
| Age | 56.27143 | 19.4358 | 0.210514 | 0.2823 | 28 |
| CD15 | 0.9675 | 1.577818 | | | |

### Bivariate Fit of CD68 By Age



Legend: Bivariate Normal Ellipse P=0.950 — Linear Fit

**Bivariate Normal Ellipse P=0.950**

| Variable | Mean | Std Dev | Correlation | Signif. Prob | Number |
|---|---|---|---|---|---|
| Age | 56.27143 | 19.4358 | 0.127415 | 0.5182 | 28 |
| CD68 | 1.058929 | 0.922831 | | | |

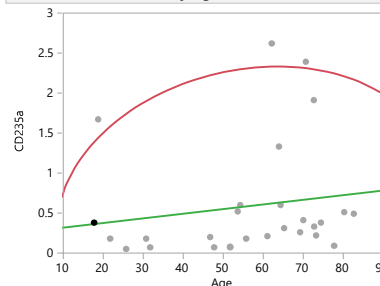### Bivariate Fit of CD14 By Age



Legend: Bivariate Normal Ellipse P=0.950 — Linear Fit

**Bivariate Normal Ellipse P=0.950**

| Variable | Mean | Std Dev | Correlation | Signif. Prob | Number |
|---|---|---|---|---|---|
| Age | 56.27143 | 19.4358 | 0.250948 | 0.1977 | 28 |
| CD14 | 5.7475 | 2.855775 | | | |

### Bivariate Fit of CD19 By Age



Legend: Bivariate Normal Ellipse P=0.950 — Linear Fit

**Bivariate Normal Ellipse P=0.950**

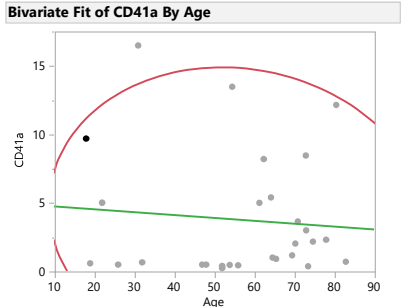| Variable | Mean | Std Dev | Correlation | Signif. Prob | Number |
|---|---|---|---|---|---|
| Age | 56.27143 | 19.4358 | -0.25953 | 0.1823 | 28 |
| CD19 | 2.744286 | 2.081774 | | | |

### Bivariate Fit of CD235a By Age



Legend: Bivariate Normal Ellipse P=0.950 — Linear Fit
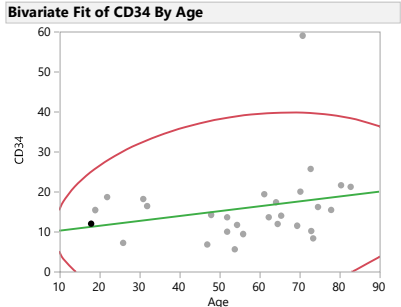
**Bivariate Normal Ellipse P=0.950**

| Variable | Mean | Std Dev | Correlation | Signif. Prob | Number |
|---|---|---|---|---|---|
| Age | 56.27143 | 19.4358 | 0.157388 | 0.4238 | 28 |
| CD235a | 0.5725 | 0.71397 | | | |

## Bivariate Fit of CD41a By Age



Bivariate Normal Ellipse P=0.950
Linear Fit

### Bivariate Normal Ellipse P=0.950

| Variable | Mean | Std Dev | Correlation | Signif. Prob | Number |
|---|---|---|---|---|---|
| Age | 56.27143 | 19.4358 | -0.09046 | 0.6471 | 28 |
| CD41a | 3.745714 | 4.540634 | | | |

## Bivariate Fit of CD34 By Age



Bivariate Normal Ellipse P=0.950
Linear Fit

### Bivariate Normal Ellipse P=0.950

| Variable | Mean | Std Dev | Correlation | Signif. Prob | Number |
|---|---|---|---|---|---|
| Age | 56.27143 | 19.4358 | 0.24205 | 0.2146 | 28 |
| CD34 | 15.74357 | 9.771028 | | | |
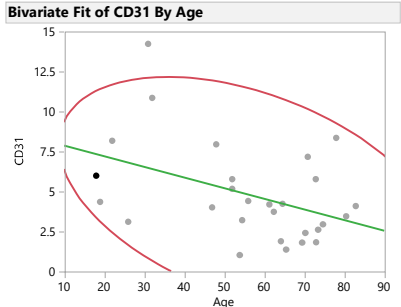
## Bivariate Fit of CD31 By Age



Bivariate Normal Ellipse P=0.950
Linear Fit

### Bivariate Normal Ellipse P=0.950

| Variable | Mean | Std Dev | Correlation | Signif. Prob | Number |
|---|---|---|---|---|---|
| Age | 56.27143 | 19.4358 | -0.42858 | 0.0229* | 28 |
| CD31 | 4.764643 | 3.013029 | | | |
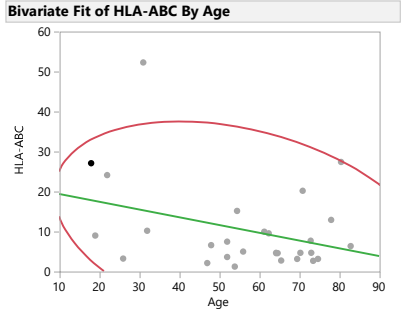
## Bivariate Fit of HLA-ABC By Age



Bivariate Normal Ellipse P=0.950
Linear Fit

### Bivariate Normal Ellipse P=0.950

| Variable | Mean | Std Dev | Correlation | Signif. Prob | Number |
|---|---|---|---|---|---|
| Age | 56.27143 | 19.4358 | -0.34103 | 0.0757 | 28 |
| HLA-ABC | 10.31214 | 11.07914 | | | |
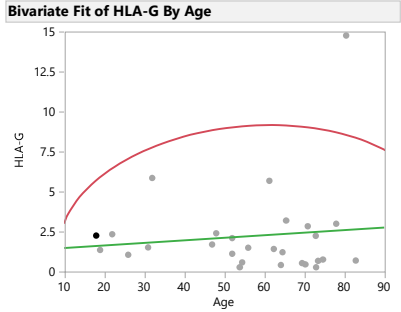
## Bivariate Fit of HLA-G By Age



Bivariate Normal Ellipse P=0.950
Linear Fit

### Bivariate Normal Ellipse P=0.950

| Variable | Mean | Std Dev | Correlation | Signif. Prob | Number |
|---|---|---|---|---|---|
| Age | 56.27143 | 19.4358 | 0.109654 | 0.5786 | 28 |
| HLA-G | 2.188571 | 2.835742 | | | |
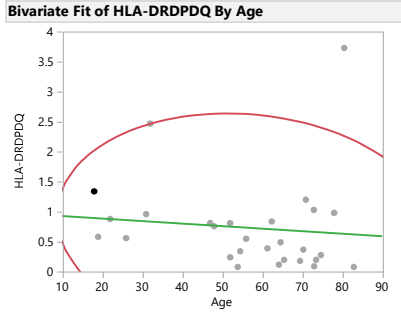
## Bivariate Fit of HLA-DRDPDQ By Age



Bivariate Normal Ellipse P=0.950
Linear Fit

### Bivariate Normal Ellipse P=0.950

| Variable | Mean | Std Dev | Correlation | Signif. Prob | Number |
|---|---|---|---|---|---|
| Age | 56.27143 | 19.4358 | -0.10604 | 0.5912 | 28 |
| HLA-DRDPDQ | 0.724286 | 0.778081 | | | |