

**Additional File 3 (Table 2)**

## Association of Gene Expression Components with Cell Counts

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Variable	WBC	Neutrophils
PC 1 (16.0%)	$2.8 \times 10^{-4}$	0.18
PC 2 (11.2%)	$9.5 \times 10^{-5}$	0.25
PC 3 (6.2%)	$4.1 \times 10^{-7}$	0.21
PC 4 (3.5%)	0.002	0.02
PC 5 (3.0%)	0.37	0.98
Axis1	$6.9 \times 10^{-11}$	0.02
Axis2	0.16	0.96
Axis3	0.13	0.25
Axis4	$7.7 \times 10^{-4}$	0.46
Axis5	$4.7 \times 10^{-11}$	0.006
Axis6	0.19	0.05
Axis7	0.095	0.003
Axis8	0.003	0.44
Axis9	$4.7 \times 10^{-8}$	0.25
Death_joint_PC1	$3.9 \times 10^{-10}$	0.06

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Table shows p-values for regression of white blood cell (WBC) or Neutrophil count on the indicated Principal Component (with amount of variance it captures) or Axis of Variation score.