

**Table S1: Gold Allergy Model  
BAL Cell Phenotypes by Percent**

Cell Phenotype	Group							
	Non-sensitized				Sensitized			
	1	2	3	4	5	6	7	8
<b>Day 11</b>								
<b>Total BAL Cell #</b>	<b>1,140,500</b>	<b>1,098,750</b>	<b>1,125,000</b>	<b>1,120,500</b>	<b>1,141,000</b>	<b>1,113,250</b>	<b>1,191,500</b>	<b>1,168,250</b>
<b>Macrophages</b>	94.01 %	93.65 %	92.78 %	93.01 %	93.24 %	92.15 %	93.54 %	93.11 %
<b>Neutrophils</b>	0.99 %	1.17 %	1.01 %	1.22 %	1.25 %	1.20 %	0.97 %	1.11 %
<b>Eosinophils</b>	0.52 %	0.67 %	0.61 %	0.62 %	0.67 %	0.51 %	0.56 %	0.58 %
<b>Lymphocytes</b>	3.79 %	3.80 %	3.75 %	3.65 %	3.55 %	3.59 %	3.82 %	4.00 %
<b>CD4+ T-cells</b>	2.39 %	2.61 %	2.50 %	2.36 %	2.01 %	2.22 %	2.45 %	2.62 %
<b>CD8+ T-cells</b>	0.80 %	0.71 %	0.74 %	0.77 %	0.89 %	0.85 %	0.82 %	0.80 %
<b>B-Cells</b>	0.60 %	0.48 %	0.51 %	0.52 %	0.65 %	0.52 %	0.55 %	0.58 %
<b>Other</b>	1.02 %	0.89 %	1.15 %	1.42 %	1.29 %	2.55 %	1.11 %	1.20 %
<b>Day 15</b>								
<b>Total BAL Cell #</b>	<b>1,152,250</b>	<b>1,098,000</b>	<b>1,109,600</b>	<b>1,165,200</b>	<b>1,170,400</b>	<b>1,540,000*</b>	<b>2,079,750*</b>	<b>1,709,250*</b>
<b>Macrophages</b>	92.58 %	93.33 %	93.07 %	92.57 %	94.12 %	93.34 %	92.56 %	93.17 %
<b>Neutrophils</b>	1.30 %	1.20 %	1.06 %	0.99 %	0.99 %	1.20 %	1.12 %	1.13 %
<b>Eosinophils</b>	0.56 %	0.57 %	0.64 %	0.63 %	0.60 %	0.55 %	0.54 %	0.49 %
<b>Lymphocytes</b>	3.71 %	3.61 %	3.82 %	3.93 %	3.58 %	3.88 %	3.86 %	3.96 %
<b>CD4+ T-cells</b>	2.50 %	2.44 %	2.62 %	2.59 %	2.33 %	2.44 %	2.58 %	2.60 %
<b>CD8+ T-cells</b>	0.66 %	0.69 %	0.71 %	0.74 %	0.75 %	0.85 %	0.67 %	0.80 %
<b>B-Cells</b>	0.55 %	0.48 %	0.49 %	0.60 %	0.50 %	0.59 %	0.61 %	0.56 %
<b>Other</b>	1.25 %	1.29 %	1.41 %	1.21 %	0.71 %	1.03 %	1.92 %	1.25 %
<b>Day 19</b>								
<b>Total BAL Cell #</b>	<b>1,145,200</b>	<b>1,119,500</b>	<b>1,096,000</b>	<b>1,165,250</b>	<b>1,162,600</b>	<b>1,835,750*</b>	<b>2,367,750**</b>	<b>1,806,000*</b>
<b>Macrophages</b>	94.17 %	93.54 %	92.85 %	93.11 %	93.56 %	92.87 %	89.74 %	93.11 %
<b>Neutrophils</b>	0.96 %	1.12 %	0.91 %	1.27 %	1.15 %	1.37 %	1.26 %	1.04 %
<b>Eosinophils</b>	0.66 %	0.59 %	0.55 %	0.64 %	0.66 %	0.60 %	0.52 %	0.54 %
<b>Lymphocytes</b>	3.87 %	3.68 %	3.82 %	3.81 %	3.21 %	3.86 %	4.53 %	4.12 %
<b>CD4+ T-cells</b>	2.55 %	2.58 %	2.62 %	2.49 %	2.55 %	2.51 %	2.65 %	2.44 %
<b>CD8+ T-cells</b>	0.71 %	0.65 %	0.69 %	0.82 %	0.66 %	0.75 %	2.10%**	0.81 %
<b>B-Cells</b>	0.62 %	0.45 %	0.51 %	0.50 %	0.57 %	0.60 %	0.45 %	0.87 %
<b>Other</b>	1.01 %	1.07 %	1.18 %	1.17 %	1.42 %	1.30 %	3.28%**	1.19 %

Table S1: BAL cell total number and cell phenotypes expressed as a percent of total BAL cells for all groups at all time points in the gold allergy study. n = 4 per group, p < 0.05. \* indicates statistically significant from group 5 control at the corresponding time point, \*\* indicates statically significant from all other groups at the corresponding time point.

**Table S2: Gold Allergy Model  
Auricular Lymph Node Cell Phenotypes by Percent**

Cell Phenotype	Group							
	1	2	3	4	5	6	7	8
<b>Day 11</b>								
Total LN Cell #	3,256,100	3,125,000	3,459,100	3,346,200	15,236,000 a	16,457,000 a	14,598,000 a	17,458,000 a
CD4+ T-cells	62.2%	63.0%	61.1%	60.8%	66.7% a	67.0% a	68.2% a	66.9% a
CD8+ T-cells	20.5%	22.4%	21.7%	22.2%	29.6% a	28.8% a	28.4% a	30.1% a
B-cells	15.2%	13.2%	14.0%	14.1%	8.2% a	9.0% a	9.6% a	9.4% a
<b>Day 15</b>								
Total LN Cell #	2,986,500	3,125,600	3,233,000	3,410,600	16,785,000 a	15,498,000 a	14,987,000 a	16,674,000 a
CD4+ T-cells	63.3%	61.4%	60.8%	62.2%	68.8% a	67.8% a	69.0% a	67.7% a
CD8+ T-cells	21.4%	20.8%	22.7%	21.1%	30.2% a	28.8% a	28.6% a	27.9% a
B-cells	13.5%	14.1%	12.9%	13.7%	8.5% a	9.3% a	10.4% a	9.9% a
<b>Day 19</b>								
Total LN Cell #	3,220,100	3,005,100	3,259,000	2,986,400	15,268,000 a	14,985,000 a	17,458,000 a	16,475,000 a
CD4+ T-cells	60.7%	61.4%	63.4%	60.7%	67.4% a	68.1% a	70.1% a	69.2% a
CD8+ T-cells	19.8%	21.5%	22.0%	21.8%	27.7% a	28.4% a	31.0% a	30.2% a
B-cells	12.8%	13.0%	14.1%	13.6%	9.6% a	8.7% a	8.2% a	9.6% a

Table S2: Phenotypic differentiation of lymphocyte subsets within the auricular lymph nodes (ALN) of animals in the gold allergy model. The total number of ALN cells is shown for each group at each time point. Lymphocyte subpopulations are expressed as a percentage of total ALN cells. n = 4 per group,  $p < 0.05$ . a indicates statistically significant from all non-sensitized groups (groups 1-4).

**Table S3: Gold Allergy Model  
Spleen Cell Phenotypes by Percent**

Cell Phenotype	Group							
	Non-sensitized				Sensitized			
	1	2	3	4	5	6	7	8
<b>Day 11</b>								
<b>CD4+ T-cells</b>	14.23 %	15.01 %	15.24 %	14.87 %	14.93 %	15.11 %	15.09 %	15.03 %
<b>CD44<sup>hi</sup></b>	1.12 %	2.05 %	1.48 %	1.72 %	1.28 %	2.14 %	2.03 %	2.09 %
<b>CD8+ T-cells</b>	8.55 %	9.12 %	9.07 %	8.61 %	8.78 %	8.69 %	9.13 %	9.07 %
<b>CD44<sup>hi</sup></b>	2.18 %	1.44 %	1.82 %	1.37 %	1.52 %	1.58 %	1.34 %	2.11 %
<b>B-cells</b>	62.14 %	60.76 %	62.37 %	63.41 %	59.87 %	62.22 %	60.39 %	60.47 %
<b>CD86<sup>hi</sup></b>	1.56 %	1.44 %	1.08 %	0.96 %	1.47 %	1.58 %	2.05 %	1.88 %
<b>NK Cells</b>	1.94 %	1.85 %	2.01 %	2.13 %	2.24 %	1.89 %	1.96 %	1.87 %
<b>Other</b>	10.11 %	11.23 %	11.31 %	10.98 %	11.25 %	12.09 %	10.43 %	10.56 %
<b>Day 15</b>								
<b>CD4+ T-cells</b>	15.20 %	14.96 %	14.87 %	15.03 %	15.11 %	14.52 %	14.62 %	15.07 %
<b>CD44<sup>hi</sup></b>	1.46 %	1.82 %	0.89 %	1.62 %	1.66 %	2.25 %	1.54 %	0.97 %
<b>CD8+ T-cells</b>	9.12 %	9.23 %	8.87 %	8.96 %	9.14 %	8.54 %	8.93 %	9.11 %
<b>CD44<sup>hi</sup></b>	2.02 %	2.37 %	1.82 %	1.77 %	0.95 %	2.22 %	10.27 %**	1.84 %
<b>B-cells</b>	61.14 %	62.52 %	60.74 %	59.89 %	61.56 %	62.54 %	61.33 %	60.94 %
<b>CD86<sup>hi</sup></b>	1.28 %	1.35 %	1.64 %	1.40 %	2.47 %	6.12 %	1.57 %	4.98 %
<b>NK Cells</b>	2.10 %	2.00 %	2.04 %	1.89 %	2.14 %	1.74 %	2.07 %	1.93 %
<b>Other</b>	11.21 %	11.29 %	11.23 %	12.01 %	10.45 %	12.41 %	11.79 %	10.85 %
<b>Day 19</b>								
<b>CD4+ T-cells</b>	14.96 %	14.85 %	15.02 %	15.11 %	15.12 %	14.60 %	15.22 %	14.75 %
<b>CD44<sup>hi</sup></b>	1.58 %	1.43 %	1.79 %	0.98 %	1.77 %	2.24 %	1.47 %	1.16 %
<b>CD8+ T-cells</b>	9.30 %	9.15 %	8.88 %	8.74 %	8.96 %	9.22 %	12.04 %**	8.57 %
<b>CD44<sup>hi</sup></b>	2.10 %	2.07 %	1.68 %	1.05 %	0.69 %	1.14 %	12.41 %**	1.98 %
<b>B-cells</b>	62.32 %	63.45 %	62.14 %	61.17 %	63.14 %	62.12 %	58.62 %**	61.17 %
<b>CD86<sup>hi</sup></b>	2.09 %	2.27 %	1.39 %	1.16 %	1.17 %	7.68 %*	2.05 %	4.87 %*
<b>NK Cells</b>	2.16 %	2.01 %	2.22 %	1.91 %	2.44 %	2.12 %	1.85 %	1.93 %
<b>Other</b>	11.26 %	10.54 %	11.74 %	11.03 %	12.47 %	11.40 %	10.63 %	12.07 %

Table S3: Spleen cell phenotypes expressed as a percent of total cells for all groups at all time points in the gold allergy study. The percentage of cells within each population bearing increased levels of activation marker expression are shown below population frequency for the corresponding cell subsets. n = 4 per group,  $p < 0.05$ . \* indicates statistically significant from group 5 control, \*\* indicates statistically significant from all other groups.