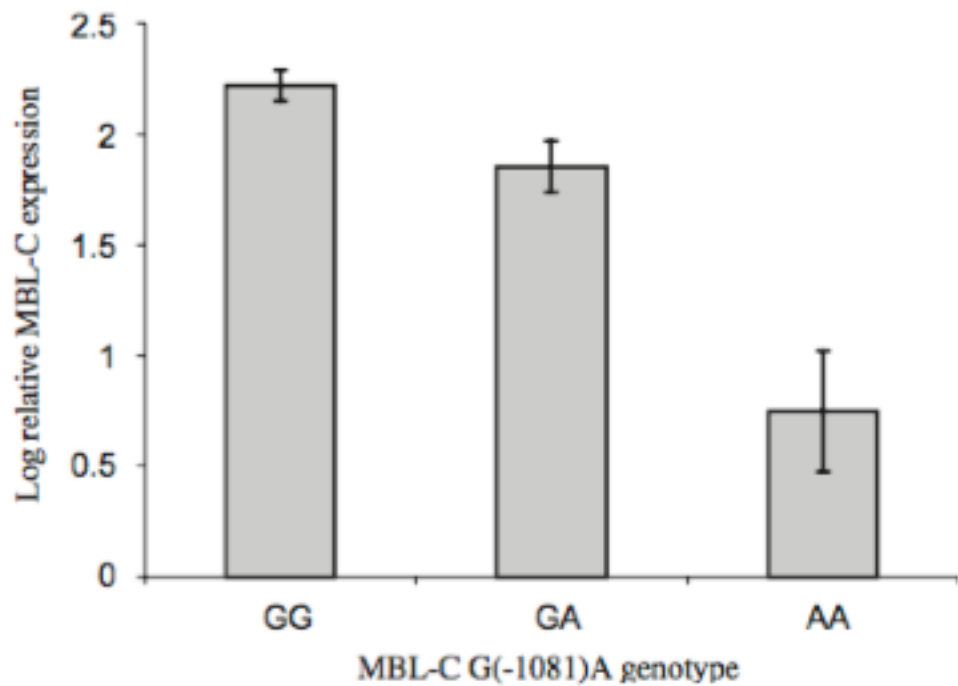






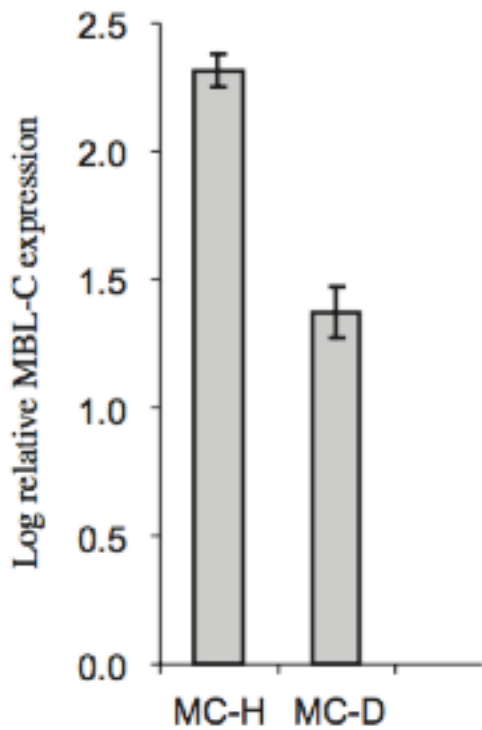
Principle polymorphisms



**Table 4**  
Frequency of variant positive genotypes in diseased groups in collagenous lectin gene SNPs.

Genotype	Healthy <sup>a</sup> (n = 1324)	Diseased (n = 461)	Pneumonia (n = 294)	Enteritis (n = 227)	Serositis (n = 64)	Septicemia (n = 97)
FCN- $\alpha$ G(1139)A	56.0 <sup>13</sup>	61.5 <sup>4</sup>	58.8 <sup>3</sup>	64.7 <sup>3</sup>	59.4	59.8
FCN- $\beta$ G(-779)C	3.1 <sup>15</sup>	3.9 <sup>5</sup>	4.5 <sup>3</sup>	4.5 <sup>3</sup>	1.6 <sup>1</sup>	3.1 <sup>1</sup>
<i>MBL1</i> G(271)T	18.7 <sup>14</sup>	<b>26.7<sup>1</sup></b>	25.2	24.9 <sup>2</sup>	29.7	21.6
<i>MBL1</i> C(273)T	31.4 <sup>9</sup>	<b>53.4<sup>4</sup></b>	<b>54.0<sup>3</sup></b>	<b>54.7<sup>2</sup></b>	46.9	<b>50.5</b>
<i>MBL1</i> C(687)T	15.5 <sup>12</sup>	<b>33.8<sup>5</sup></b>	<b>32.4<sup>4</sup></b>	<b>35.3<sup>3</sup></b>	23.4	27.8
<i>MBL1</i> C(int)T	11.4 <sup>14</sup>	13.9 <sup>1</sup>	15.3	17.3 <sup>2</sup>	9.4	11.3
<i>MBL2</i> T(-2148)C	55.1 <sup>21</sup>	<b>68.5</b>	<b>69.4</b>	<b>69.0<sup>1</sup></b>	67.2	69.1
<i>MBL2</i> G(-1056)T	56.5 <sup>7</sup>	<b>71.7<sup>5</sup></b>	<b>71.8<sup>3</sup></b>	<b>70.4<sup>2</sup></b>	70.5	70.1
<i>MBL2</i> G(-1081)A	16.6 <sup>14</sup>	<b>30.3<sup>2</sup></b>	<b>31.1<sup>1</sup></b>	<b>33.8<sup>2</sup></b>	<b>37.5</b>	<b>33.0</b>
<i>MBL2</i> C(-1251)T	32.5 <sup>13</sup>	70.1 <sup>15</sup>	70.8 <sup>1</sup>	70.1 <sup>2</sup>	70.7	62.5
SP-A G(439)A	18.8 <sup>12</sup>	<b>26.4<sup>6</sup></b>	25.1 <sup>3</sup>	24.7 <sup>4</sup>	29.7	21.6
SP-A G(500)T	22.3 <sup>8</sup>	28.4 <sup>4</sup>	26.8 <sup>3</sup>	26.7 <sup>2</sup>	31.3	22.7
SP-A T(599)A	45.8 <sup>15</sup>	<b>74.3<sup>2</sup></b>	<b>75.4<sup>1</sup></b>	<b>73.3<sup>2</sup></b>	<b>73.4</b>	<b>66.0</b>

Liliputalia, 2006



Keirstead et al., 2011

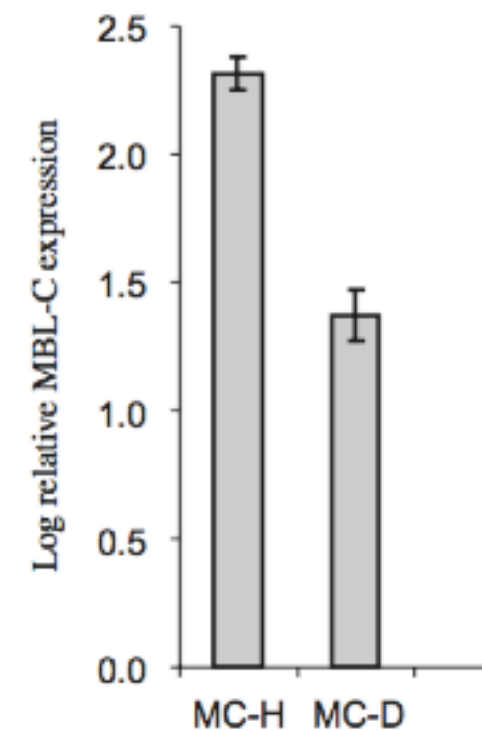
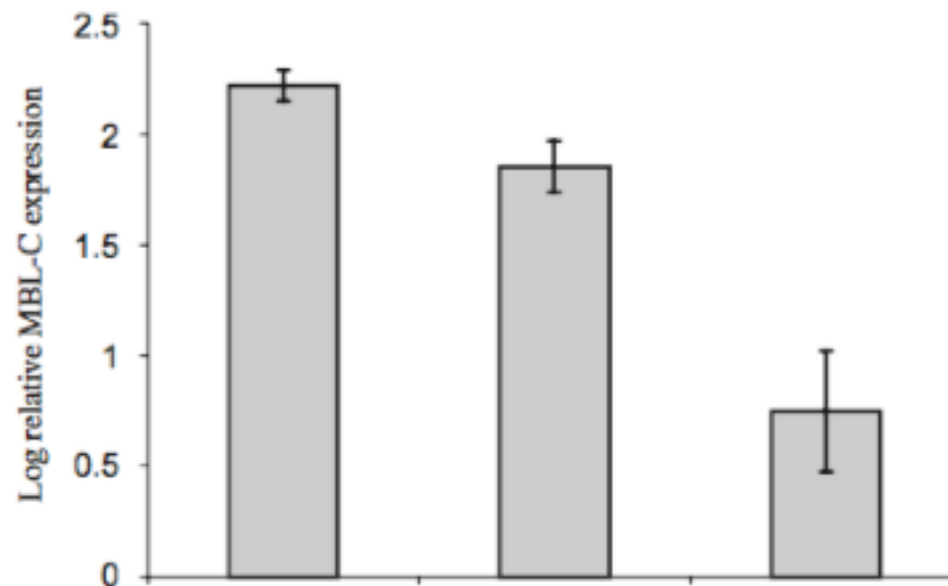


# Summary

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- SNPs in collagenous lectin genes are associated with infectious diseases in a variety of animals.
  - Best described in humans and pigs.
  - Little is known in cattle.
  - Almost nothing is known in horses.

# Porcine polymorphisms



**Table 4**  
Frequency of variant positive genotypes in diseased groups in collagenous lectin gene SNPs.

Genotype	Healthy <sup>a</sup> (n = 1324)	Diseased (n = 461)	Pneumonia (n = 294)	Enteritis (n = 227)	Serositis (n = 64)	Septicemia (n = 97)
FCN-α G(1139)A	56.0 <sup>13</sup>	61.5 <sup>4</sup>	58.8 <sup>3</sup>	64.7 <sup>3</sup>	59.4	59.8
FCN-β G(-779)C	3.1 <sup>15</sup>	3.9 <sup>5</sup>	4.5 <sup>3</sup>	4.5 <sup>3</sup>	1.6 <sup>1</sup>	3.1 <sup>1</sup>
MBL1 G(271)T	18.7 <sup>14</sup>	<b>26.7<sup>1</sup></b>	25.2	24.9 <sup>2</sup>	29.7	21.6
MBL1 C(273)T	31.4 <sup>9</sup>	<b>53.4<sup>4</sup></b>	<b>54.0<sup>3</sup></b>	<b>54.7<sup>2</sup></b>	46.9	<b>50.5</b>
MBL1 C(687)T	15.5 <sup>12</sup>	<b>33.8<sup>5</sup></b>	<b>32.4<sup>4</sup></b>	<b>35.3<sup>3</sup></b>	23.4	27.8
MBL1 C(int)T	11.4 <sup>14</sup>	13.9 <sup>1</sup>	15.3	17.3 <sup>2</sup>	9.4	11.3
MBL2 T(-2148)C	55.1 <sup>21</sup>	<b>68.5</b>	<b>69.4</b>	<b>69.0<sup>1</sup></b>	67.2	69.1
MBL2 G(-1081)A	16.6 <sup>14</sup>	<b>30.3<sup>2</sup></b>	<b>31.1<sup>1</sup></b>	<b>33.8<sup>2</sup></b>	<b>37.5</b>	<b>33.0</b>
MBL2 G(-251)T	32.3 <sup>13</sup>	73.1 <sup>15</sup>	73.3 <sup>1</sup>	73.1 <sup>2</sup>	73.7	32.3
SP-A G(439)A	18.8 <sup>12</sup>	<b>26.4<sup>6</sup></b>	25.1 <sup>3</sup>	24.7 <sup>4</sup>	29.7	21.6
SP-A G(500)T	22.3 <sup>8</sup>	28.4 <sup>4</sup>	26.8 <sup>3</sup>	26.7 <sup>2</sup>	31.3	22.7
SP-A T(599)A	45.8 <sup>15</sup>	<b>74.3<sup>2</sup></b>	<b>75.4<sup>1</sup></b>	<b>73.3<sup>2</sup></b>	<b>73.4</b>	<b>66.0</b>