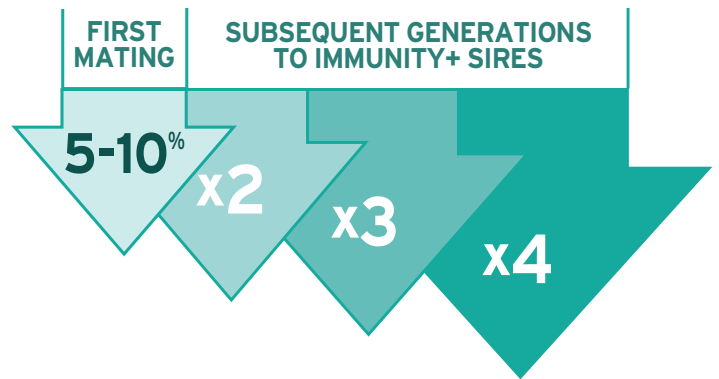


High immunity passed from parent to progeny at rates exceeding all health/fitness traits

**30%**  
heritable

## DISEASE RESISTANCE

LESS DISEASE FOR EACH GENERATION



## DAUGHTERS HAVE:



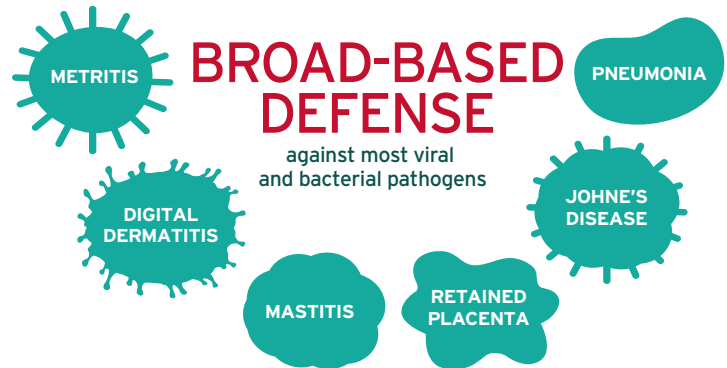
### Higher Quality Colostrum

High immune cows have significantly more total immunoglobulin and betalactoglobulin in colostrum.  
Fleming et al 2014.



### Greater Response to Commercial Vaccines

Wagter et al 2000.



High Immunity = Better Health = Higher Fertility



### Higher semen fertility

+0.4 higher SCR than other bulls  
CDCB proof data, April 2016.



### 2.5% higher 56-day non-return rates as cows

CDN Fertility Measures by Sire, April 2016.

IMMUNE RESPONSE HAS  
**+0.5 - +0.7 GENETIC CORRELATION**  
WITH HEALTH/FITNESS TRAITS\*



\*Productive Life, SCS and DPR.

The Best Way to Fight Disease

THE SEMEX DIFFERENCE