



Immunity+TM
Disease Resistant Genetics

*Immunity+TM
sires reduce
disease on our
dairy.*



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

30%
heritable



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

+0.9 higher SCR than other bulls
USDA/CDCB proof data, April 2014.



3.7% higher 56-day non-return rates as cows

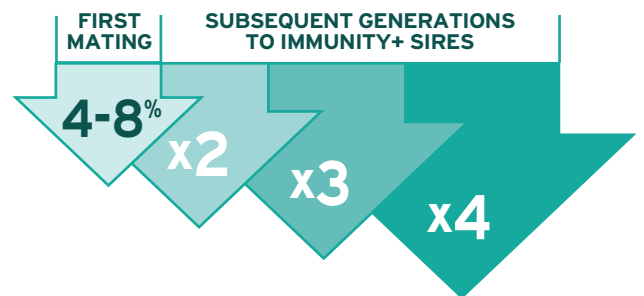
CDN Fertility Measures by Sire, April 2014.



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

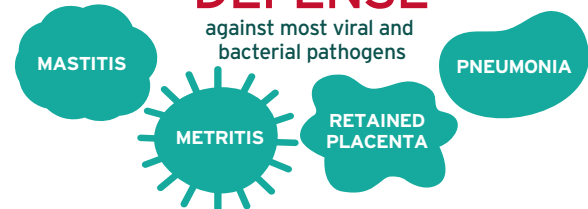
*Productive Life, SCS and DPR.

DISEASE RESISTANCE LESS DISEASE FOR EACH GENERATION



BROAD-BASED DEFENSE

against most viral and bacterial pathogens



PRELIMINARY STUDIES INDICATE

More resistance to infectious digital dermatitis
Cartwright et al 2014.



Less likely to be positive for Johne's
Pinedo et al 2009.

SEMEX[®]

Genetics for Life[®]