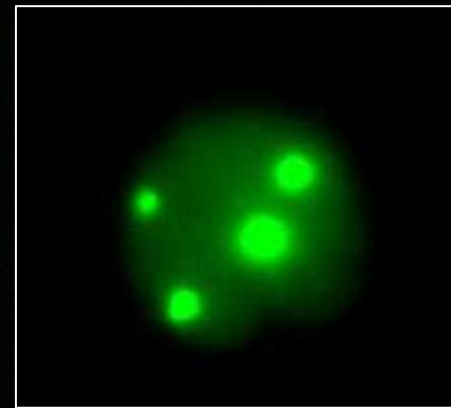
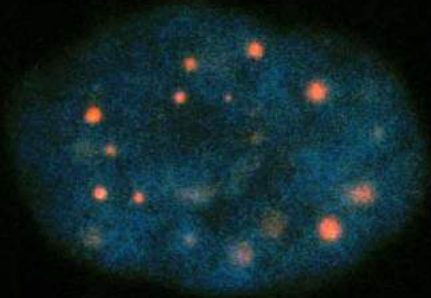


BLM, the gene mutated in Bloom's syndrome, encodes a cell cycle-regulated recQ-like helicase that localizes to PML bodies and nucleoli.



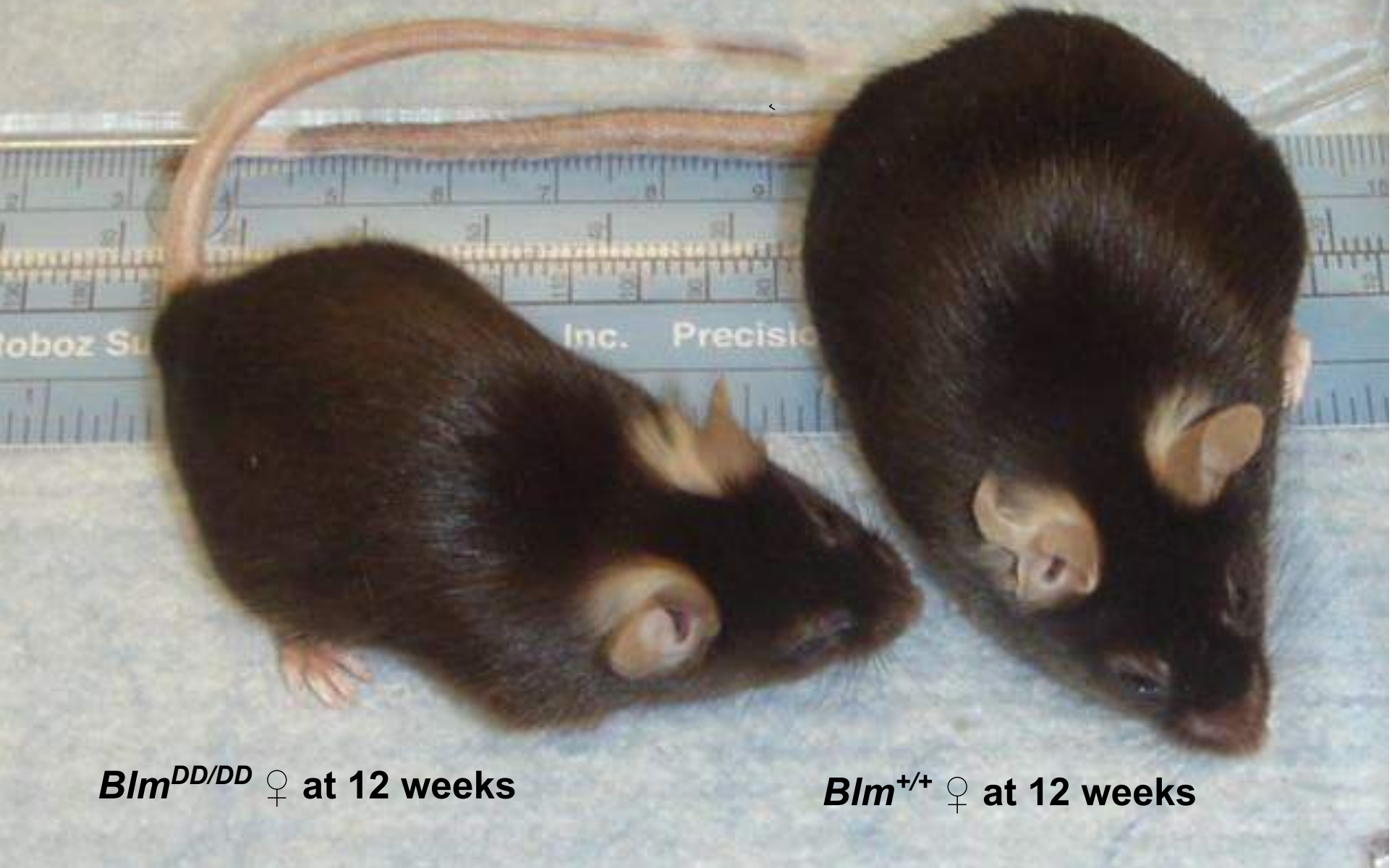


Blm^{+/+} ♀ at 8 weeks

Blm^{DD/DD} ♀ at 8 weeks

***Blm*^{DD} mice are smaller and weigh less than their wild-type littermates.**

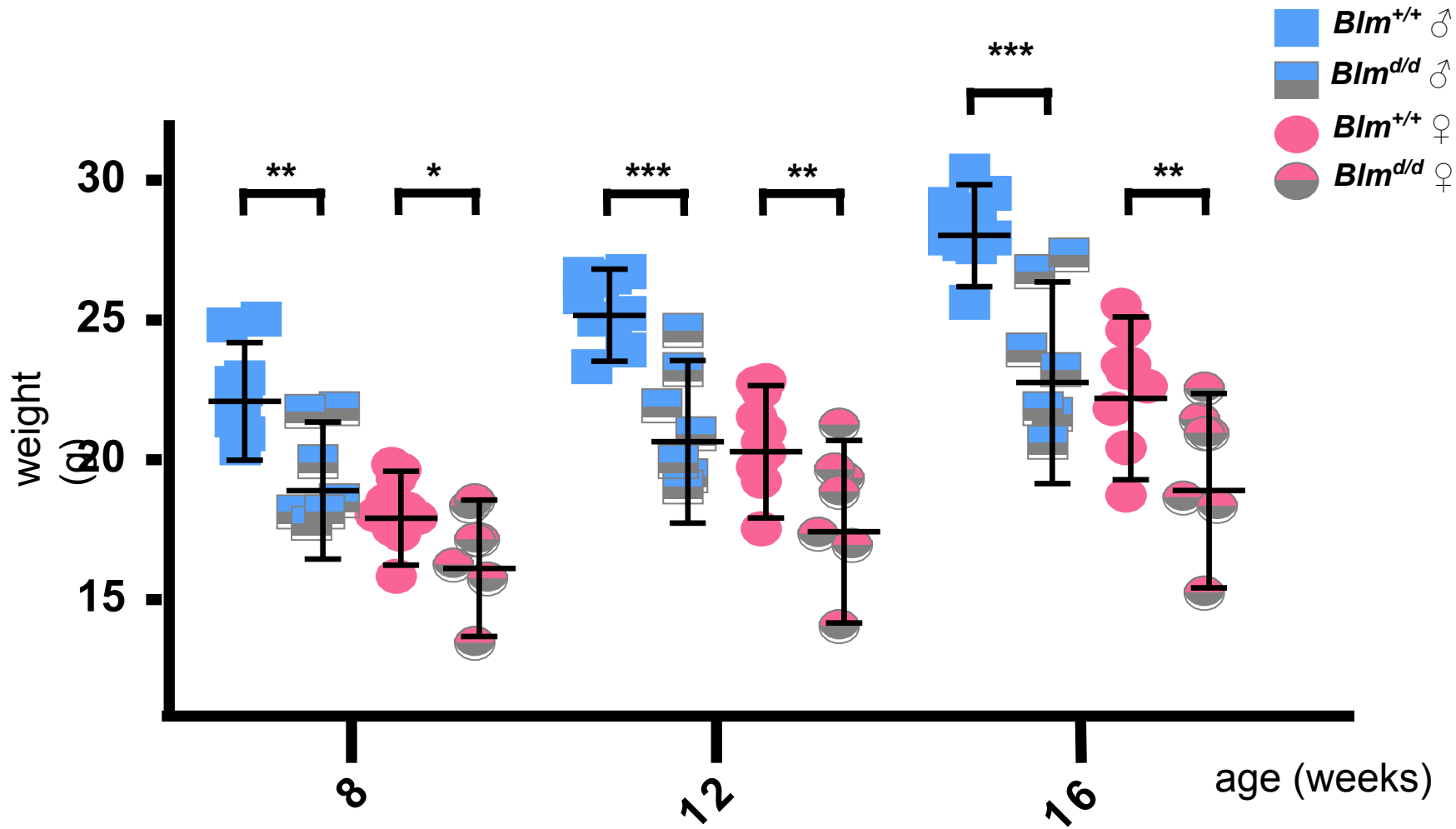
The small size and lower weight of the $Blm^{DD/DD}$ mice persist as they mature to adults.



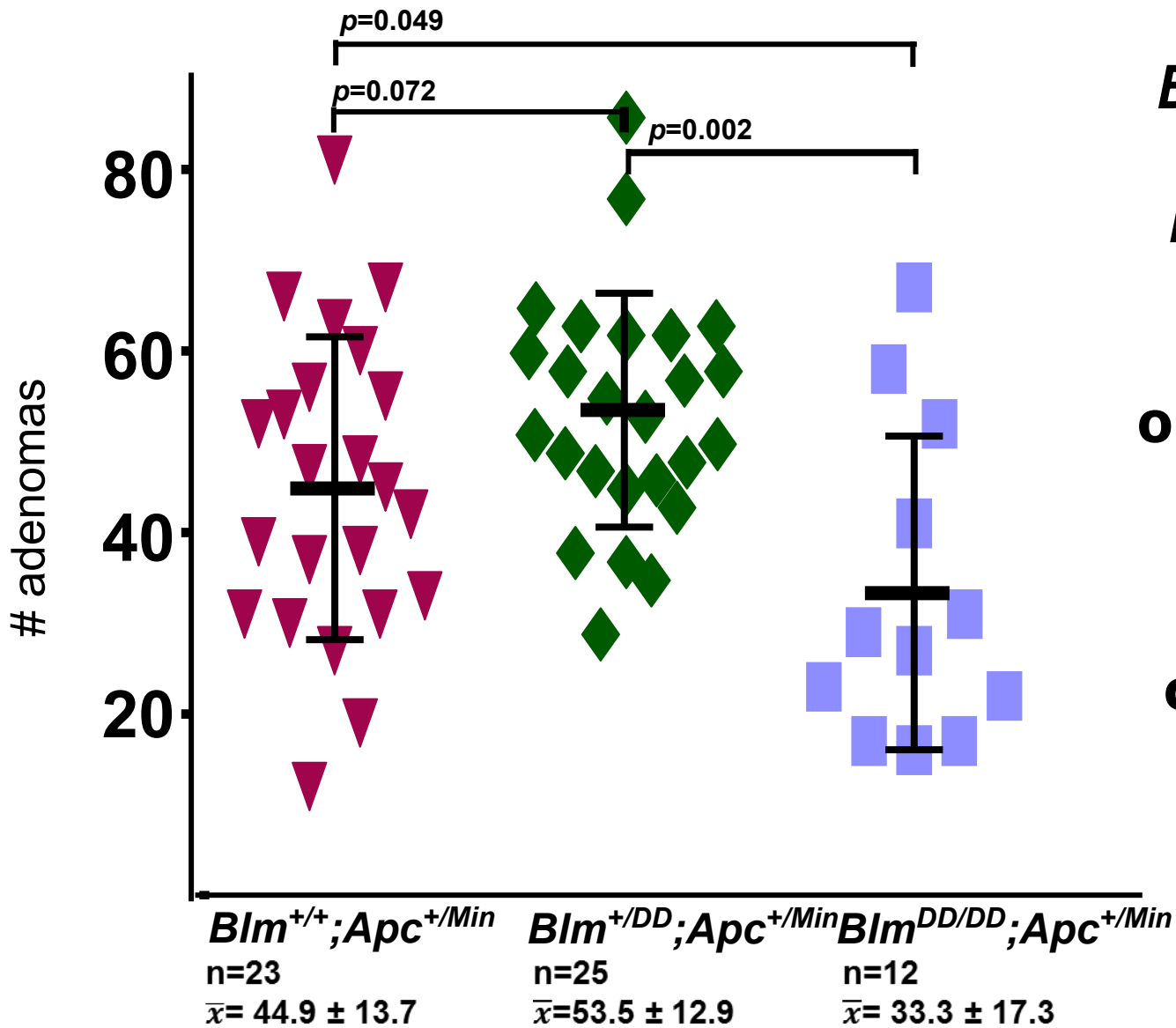
$Blm^{DD/DD}$ ♀ at 12 weeks

$Blm^{+/+}$ ♀ at 12 weeks

Blm^{DD/DD} mice are smaller than wild-type littermates.



Groups of wild-type *Blm* and *Blm*^{D/D} littermate ♂ and ♀ mice were weighed at 8, 12 and 16 weeks of age. The mean weight $\pm \sigma$ is shown by the horizontal bars. (*, $p \leq 0.05$; **, $p \leq 0.01$; ***, $p \leq 0.001$).



**$Blm^{DD/DD};Apc^{Min/+}$
and
 $Blm^{DD/+};Apc^{Min/+}$
mice
demonstrate
opposing trends
in intestinal
adenoma
numbers in
comparison to
wild-type
littermates.**

***Blm*^{DD/DD} mice
display signs of
premature aging
before one year
of
age.**

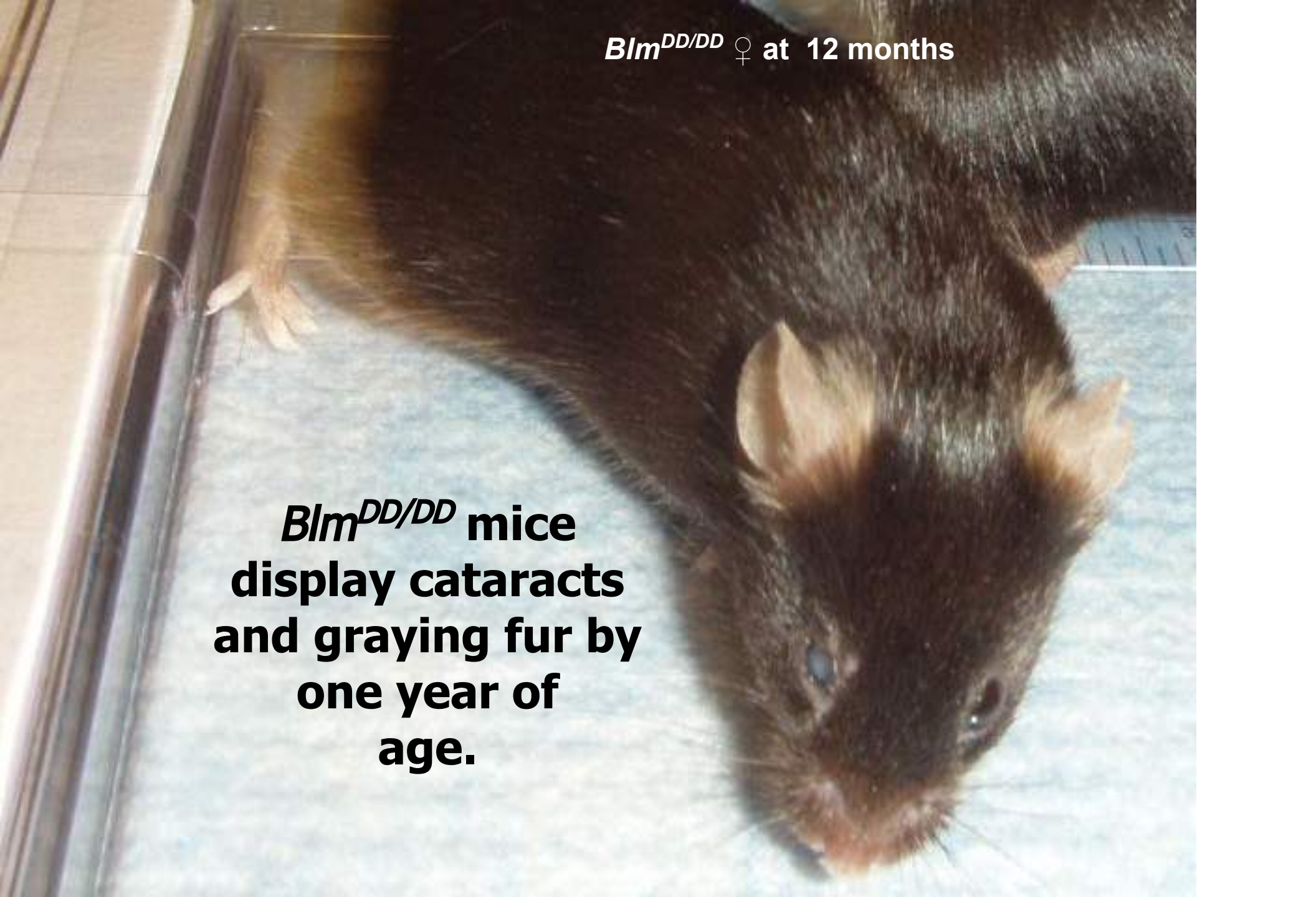
***Blm*^{+/+} ♀ at 320 days**

***Blm*^{DD/DD} ♀ at 320 days**



Blm^{DD/DD} ♀ at 12 months

Blm^{DD/DD} mice
display cataracts
and graying fur by
one year of
age.



At one year, $Blm^{DD/DD}$ mice demonstrate greater 18S rDNA copy number variation with age than wild-type littermates.

