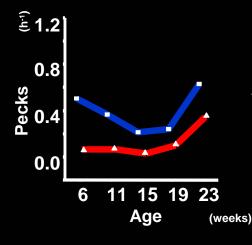
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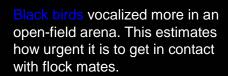
e-mail: danis102@student.liu.se

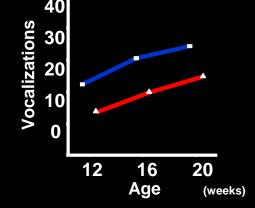
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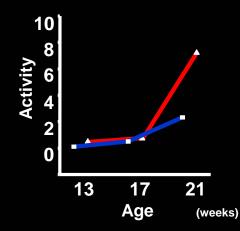
This leaflet was based on a master thesis, the final essay of the Masters Programme of Applied Biology, IFM, Linköpings University



Real-time observations in the homeboxes confirms that black birds received more severely feather pecks then white birds.







White birds were suddenly, at 21 weeks of age, more active. Chickens enter sexual maturation at around 20 weeks of age, which suggests that there is a difference in the pre-laying behaviour.

## **Black or White**

## And the risk of being pecked











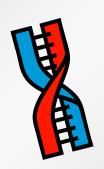




Feather pecking is a major welfare problems in the poultry industry. It often results in bleeding wounds that reinforce cannibalistic behaviours and eventually could cause the death of the victim. Large flocks is usually an enhancing factor. Today most chicken producers keep flocks of tens of thousands of birds.







Research have shown that a single gene, called PMEL17, have large influence on determining the victims of feather pecking.

PMEL17 codes for a protein that is necessary for the expression of the black pigment melanin. Birds without a functional PMEL17 gene therefore have white plumage, while those that carry functional genes have black.

In this study I have shown that the PMEL17 gene effects behaviour. Black birds were more severely pecked and behaved differently then white birds.

