# Peaks and valleys of prolactin during parental care

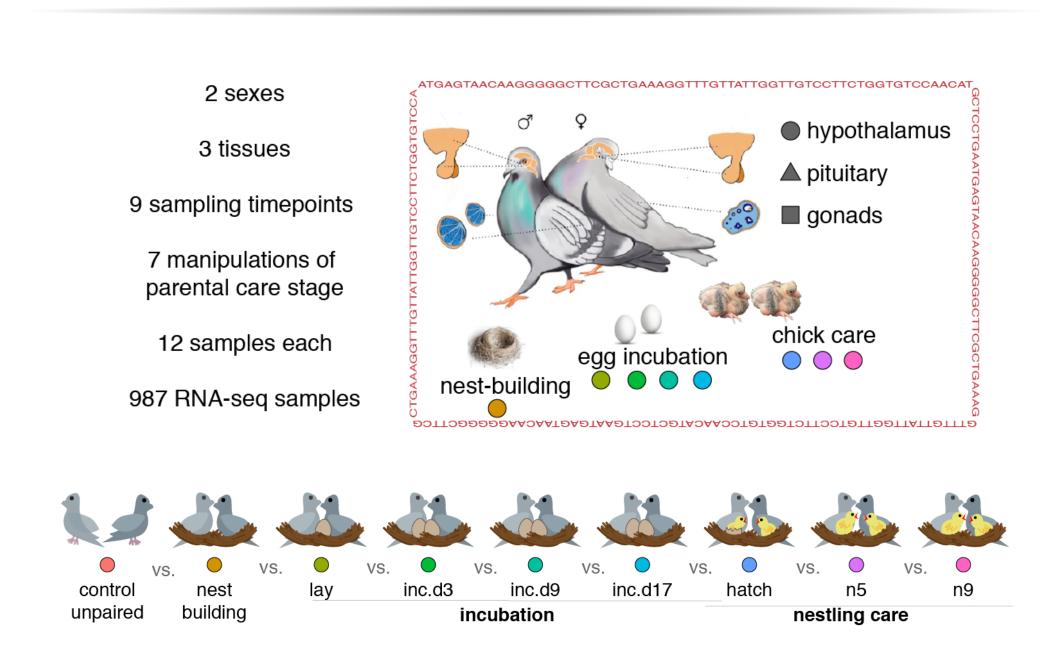
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## Research background

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# Using a bi-parental pigeon to explore how systems change over the course of parental care

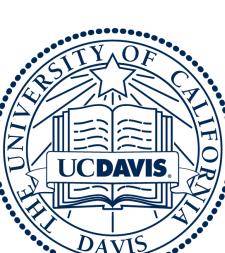


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For more information visit

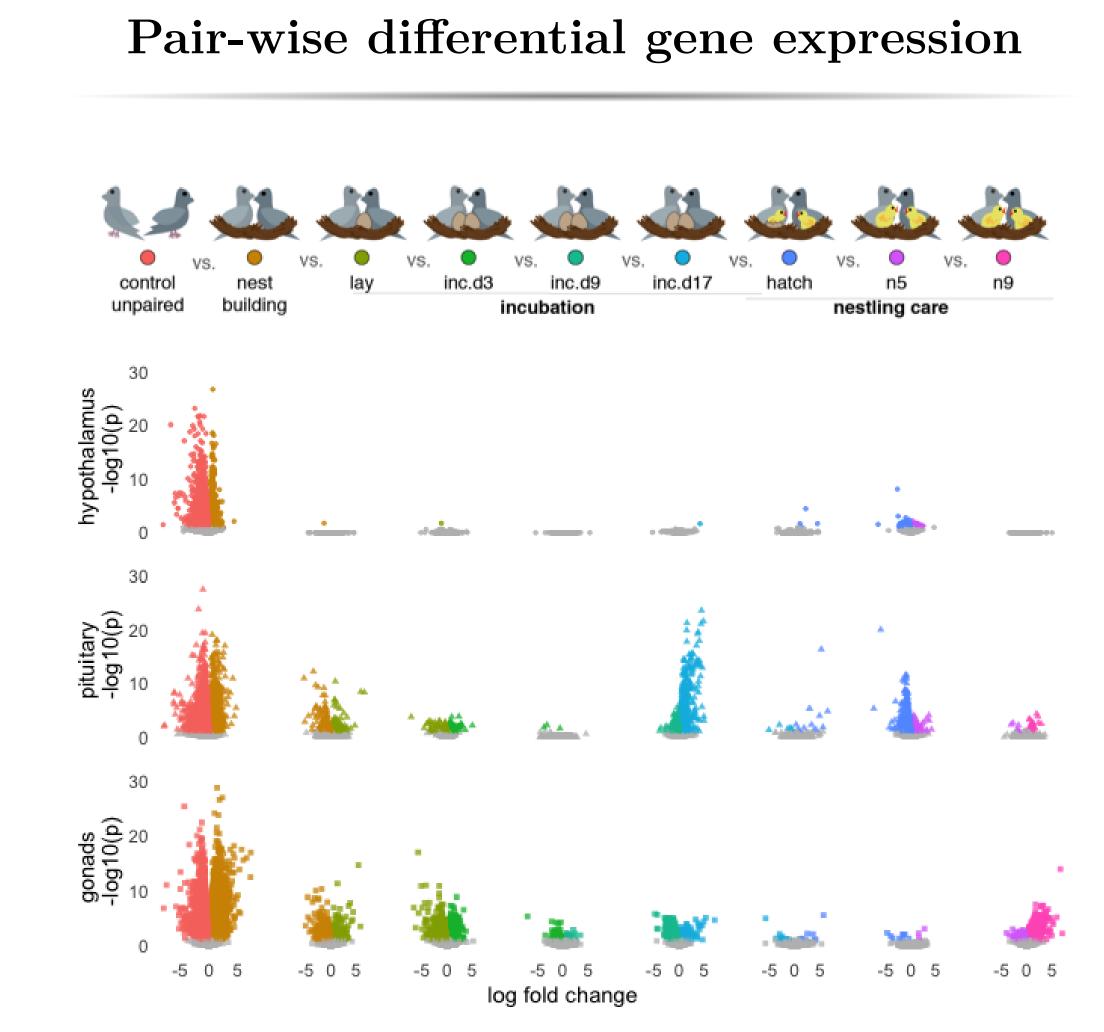
http://calisilab.ucdavis.edu/. All the data and analyses are available on GitHub at https://github.com/macmanes-lab/
DoveParentsRNAseq.







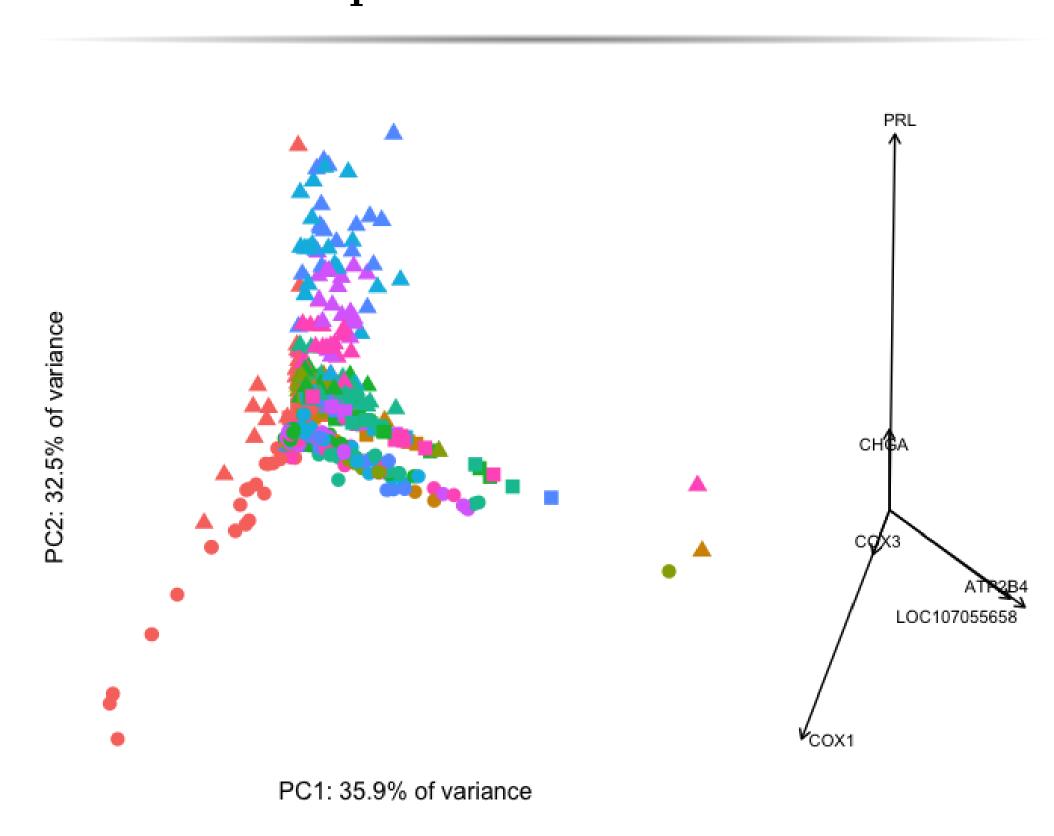
# Characterization of parental care gene expression



Noticable large changes in gene expression include:

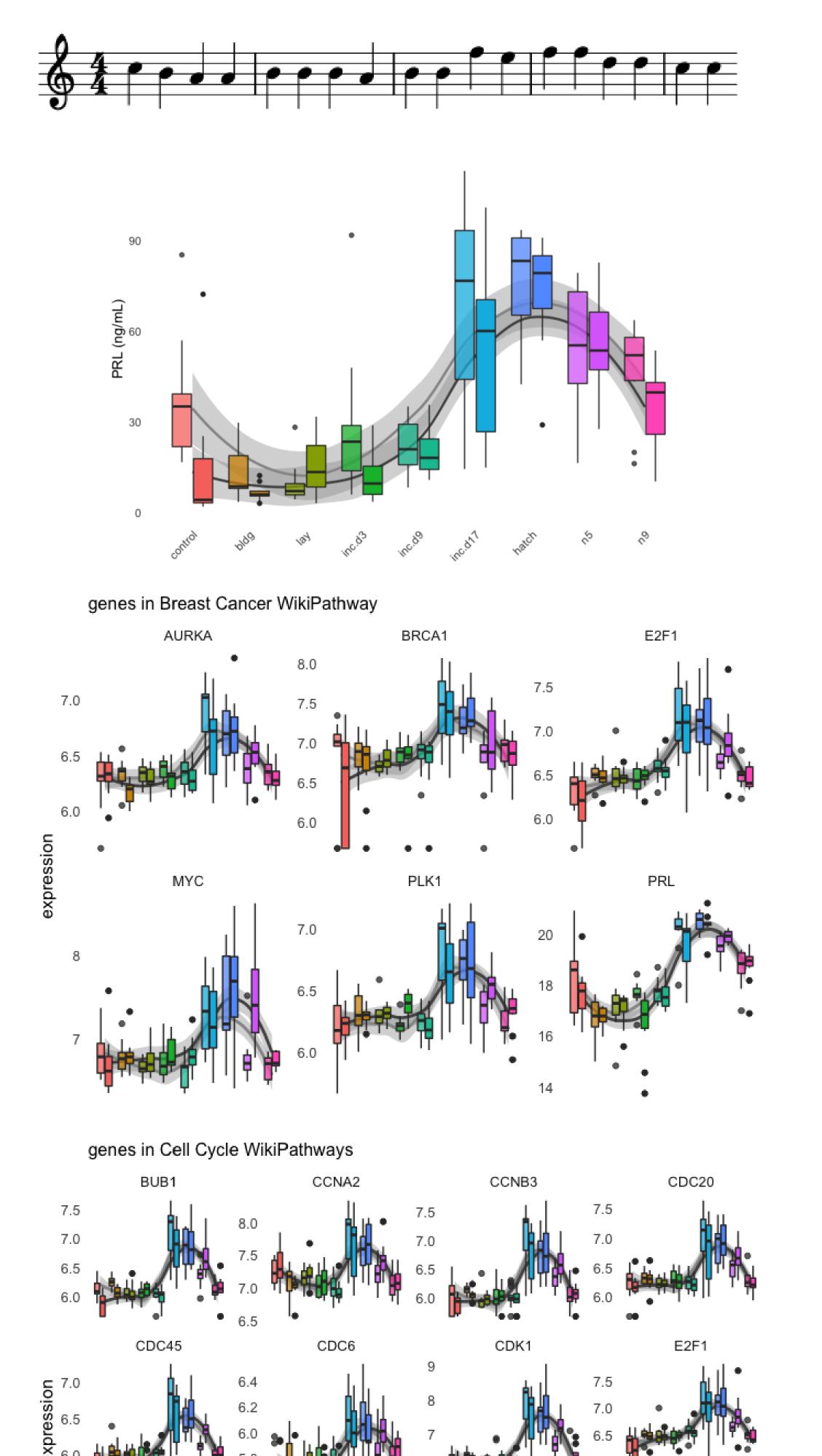
- control to nest-building transition alters expression of 1000s of genes
- incubation day 9 to 17 transition alters expression of 1000s of genes

#### Prolactin explains much of the variation



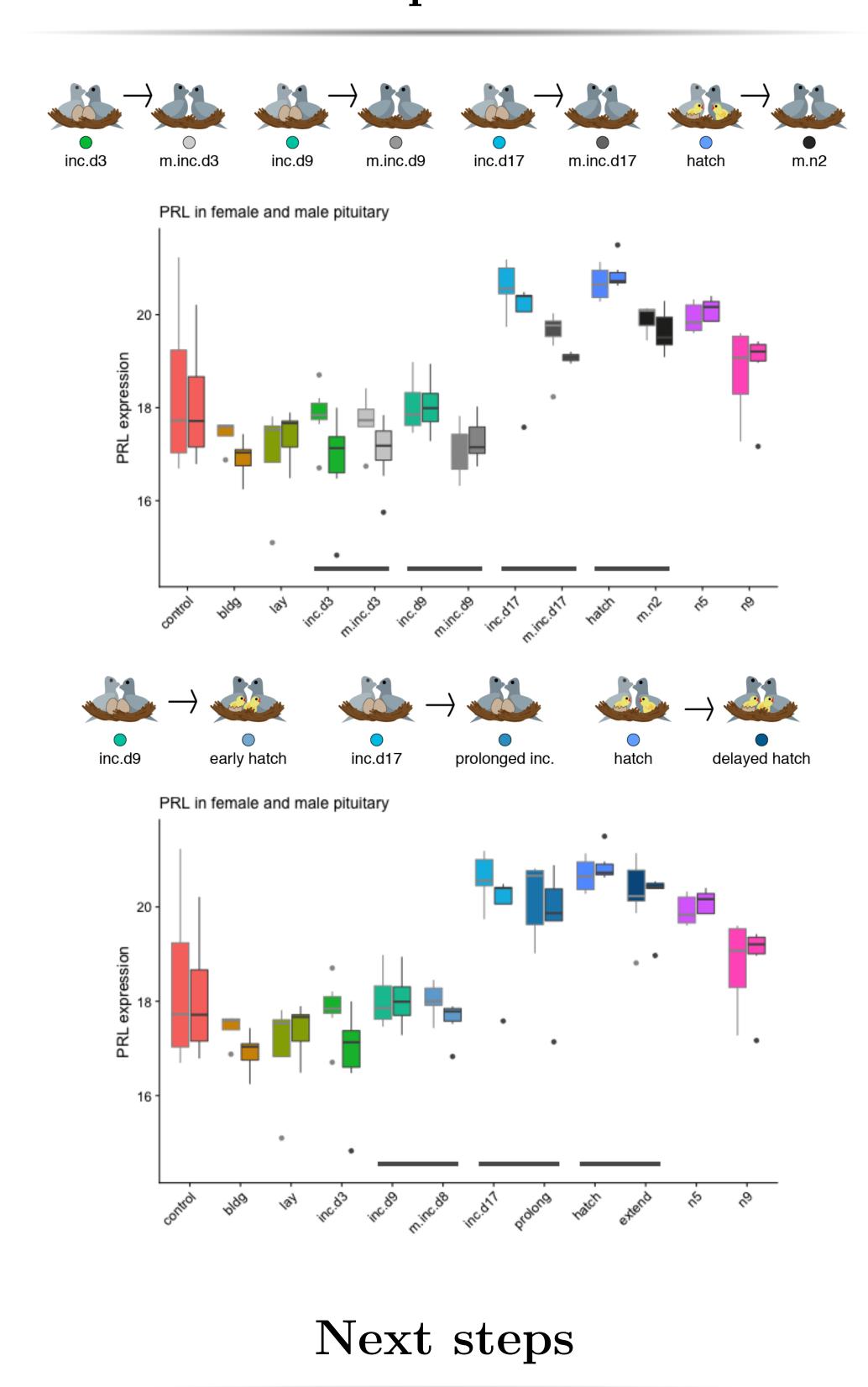
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# Genes vary in concert with prolactin



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## Manipulation



- Create an open source R package.
- Share tutorials for how to use the function.

#### Acknowledgements

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