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## *Mycin chicks*

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Overexpression of the *c-myc* oncogene induces multistaged neoplastic progression leading to B-cell lymphomas in the bursa of Fabricius. In the May 22 [Proceedings of the National Academy of Sciences](#), Neiman *et al.* describe the use of microarray analysis to define the genetic networks important for *myc*-induced lymphomagenesis (*Proc Natl Acad Sci USA* 2001, **98**:6378-6383). The authors created a customized cDNA microarray containing over 2,200 genes associated with the immune system - details can be found on the [Chick Website](#). They compared gene expression profiles of several stages of normal embryonic bursal development, *myc*-induced pre-neoplastic transformed follicles, metastatic lymphomas and the DT-40 lymphoma cell line. They found that a small subset of genes was differentially regulated during bursal differentiation, whereas hundreds of genes were influenced by *c-myc* expression. The best correlation between *myc* expression levels and gene induction was observed in pre-neoplastic follicles. *Myc*-induced genes include those involved with cell growth and energy control. The authors suggest that high levels of *myc* overexpression are more important for early lymphoma induction than for late-stage metastasis.

## References

1. Retrovirus-induced B cell neoplasia in the bursa of Fabricius.
2. *Proceedings of the National Academy of Sciences*, [<http://www.pnas.org>]
3. University of Delaware chick EST project, [<http://udgenome.ags.udel.edu/chickest/chick.htm>]