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Geotaxis genes

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Functional genomics strategies can complement traditional genetic approaches to identifying genes underlying complex behavioral traits. In an Advanced Online Publication in Nature Genetics Toma *et al.* describe an illustrative example of a study aimed at defining genes involved in geotaxis in *Drosophila melanogaster (Nature Genetics, 3 June 2002, DOI:10.1038/ng893)*. They examined differential gene expression levels, using microarray technology, in samples from fly strains with extreme geotaxis capacities. About 5% of genes showed differential expression. Toma *et al.* tested four candidate genes by examining single-gene mutant strains and found that three had a clear effect on geotaxis. The authors emphasize that "microarray analysis can be used as a starting point for narrowing down candidate genes involved in complex genetic processes ... and offers a promising approach to previously intractable molecular analysis of behavior".

References

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- 2. Nature Genetics, [http://www.nature.com/ng/]

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