

## Berkeley Drosophila Genome Project

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The Berkeley Drosophila Genome Project (BDGP) is a consortium of the Drosophila Genome Center, funded by the National Human Genome Research Institute, National Cancer Institute, and Howard Hughes Medical Institute, through its support of work in the Gerald Rubin, Allan Spradling, Roger Hoskins, Hugo Bellen, Susan Celniker, and Gary Karpen laboratories.

The goals of the Drosophila Genome Center are to finish the sequence of the euchromatic genome of *Drosophila melanogaster* to high quality and to generate and maintain biological annotations of this sequence. In addition to genomic sequencing, the BDGP is 1) producing gene disruptions using P element-mediated mutagenesis on a scale unprecedented in metazoans; 2) characterizing the sequence and expression of cDNAs; and 3) developing informatics tools that support the experimental process, identify features of DNA sequence, and allow us to present up-to-date information about the annotated sequence to the research community

### Recent Publications by Berkeley Drosophila Genome Project:



- [Drosophila by the dozen.](#)

*This study used a radionuclide imaging technique to map the spread and...* 1st March, 2008

Berkeley Drosophila Genome Project, Life Sciences Division, Lawrence- Genome Biol. 2007;8(7):309. ([DOI Direct Link](#))

- [RNA editing in \*Drosophila melanogaster\*: New targets and functional consequences.](#)

*Adenosine deaminases that act on RNA [adenosine deaminase, RNA specific...* 16th December, 2006

Berkeley Drosophila Genome Project, Department of Genome Biology, Life- RNA. 2006 Nov;12(11):1922-32. Epub 2006 Oct 3. ([DOI Direct Link](#))

- [Rapid and efficient cDNA library screening by self-ligation of inverse PCR products \(SLIP\).](#)

*cDNA cloning is a central technology in molecular biology. cDNA sequences...*15th December, 2005  
Berkeley Drosophila Genome Project, Department of Genome Biology, Life- Nucleic Acids Res. 2005  
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- [The lords of the genomes.](#)  
*Analysis of EST and cDNA collections from a number of metazoan species has...*29th July, 2005  
Berkeley Drosophila Genome Project, Lawrence Berkeley National Laboratory,- Genome Biol.  
2004;5(10):349. Epub 2004 Sep 28. ([DOI Direct Link](#))
- [Identification of putative noncoding polyadenylated transcripts in Drosophila melanogaster.](#)  
*Analysis of EST and cDNA collections from a number of metazoan species has...*4th June, 2005  
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- [The Drosophila melanogaster genome.](#)  
*Drosophila's importance as a model organism made it an obvious choice to...*4th December, 2003  
Berkeley Drosophila Genome Project, Department of Genome Sciences,- Annu Rev Genomics Hum  
Genet. 2003;4:89-117. ([DOI Direct Link](#))
- [Assessing the impact of comparative genomic sequence data on the functional annotation of the Drosophila genome.](#)  
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- [Finishing a whole-genome shotgun: release 3 of the Drosophila melanogaster euchromatic genome sequence.](#)  
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- [Annotating eukaryote genomes.](#)  
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Department of Molecular and Cell Biology, Berkeley Drosophila Genome- Curr Opin Struct Biol. 2000  
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- [Genie--gene finding in Drosophila melanogaster.](#)  
*A hidden Markov model-based gene-finding system called Genie was applied...*17th June, 2000  
Berkeley Drosophila Genome Project, Department of Molecular and Cell- Genome Res. 2000  
Apr;10(4):529-38.

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