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Jonathan B Weitzman

Email: jonathanweitzman@hotmail.com

The two groups who sequenced the human genome agreed on one thing - that there are fewer genes than everyone originally thought. Both groups estimated around 30,000 genes, using un-precise prediction methods. In the August 24 *Cell*, John Hogenesch and colleagues, at [The Genomics Institute of the Novartis Research Foundation](#) in California, compared the two sets of predicted genes to see how much they agree (*Cell* 2001, **106**:413-415). They compared the transcriptomes of the [Celera](#) (39,114 genes) and [Ensembl](#) (29,691 genes) draft sequences with each other, and with the curated [Refseq](#) set of genes. First, they showed that the Celera and Ensembl sets contained most of the known genes. But, of the 31,098 potential novel transcripts, 80% were predicted by only one group or the other, but not both. Hogenesch *et al.* then performed oligonucleotide microarray analysis to examine the expression profile of these potential novel transcripts. They found that 80% of known genes and 80% of novel genes could be detected in at least one of the tissue samples analysed. These results highlight the limitations of current computational methods to predict novel genes and the value of using expression profiling to help uncover the complete transcriptome.

References

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