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## Anthrax genomics

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The threat of bioterrorism has renewed interest in techniques for pathogen detection, monitoring and analysis. In the May 8 ScienceXpress, Timothy Read and researchers at The Institute for Genome Research (TIGR) Maryland, USA, describe a genome-based analysis of *Bacillus anthracis*, the causative agent of anthrax (DOI:10.1126/science.1071837). They assembled sequences from a recent isolate of *B. anthracis* used in a series of fatal letter-based attacks in Florida that followed in the wake of the World Trade Center tragedy on September 11, and compared them with a reference strain (referred to as the Porton isolate). They discovered four sequence differences in the *B. anthracis* chromosome: two single nucleotide polymorphisms (SNPs) and two short insertions/deletions. Comparison of the pXO virulence plasmids with those from the Sterne and Pasteur strains revealed a further 38 SNPs, eight VNTRs and three large insertion/deletions. Some of these polymorphisms will be useful as genetic markers in future monitoring of bioterrorism attacks or infectious outbreaks.

## References

- 1. ScienceXpress, [http://www.sciencemag.org/sciencexpress/recent.shtml]
- 2. The Institute for Genome Research (TIGR), [http://www.tigr.org]

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