1000 Genomes Browser Orientation

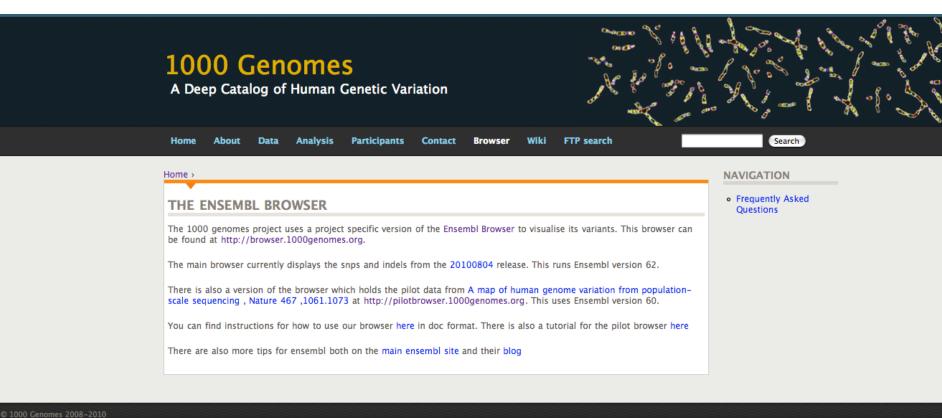
http://browser.1000genomes.org Based on Project Phase I Data

> European Bioinformatics Institute 11 May, 2011

Overview

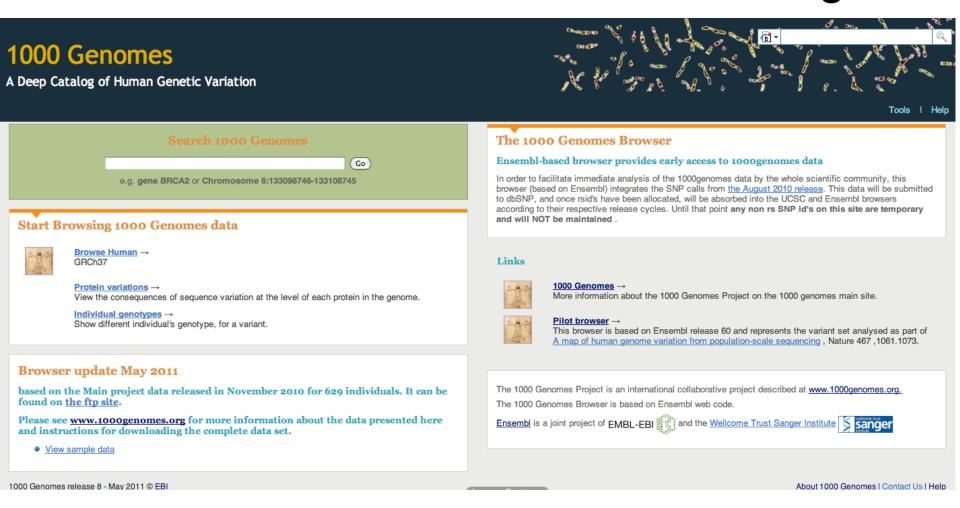
- Based on version 62 of Ensembl code and NCBI37 version of the human genome assembly
- Contains all of the gene information normally present in Ensembl
 - Gene and transcript annotation, external references, sequence data
- Incorporates essentially all of the 1000 Genomes Phase I data
- 1000 Genomes pilot project data are available on a separate browser –
 - http://pilotbrowser.1000genomes.org
- Please send questions to info@1000genomes.org

1000 Genomes Browser Guide Page

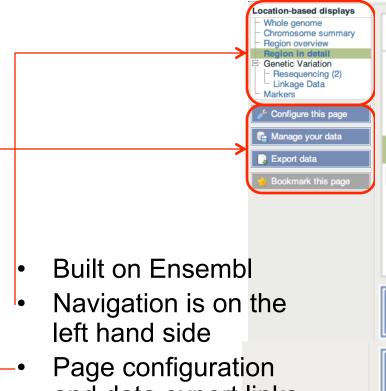


7 1000 Genomes 2006-2010

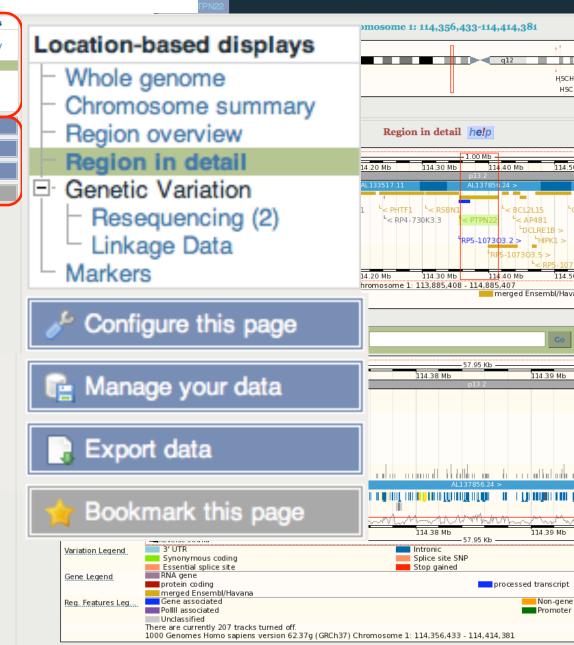
1000 Genomes Browser Home Page



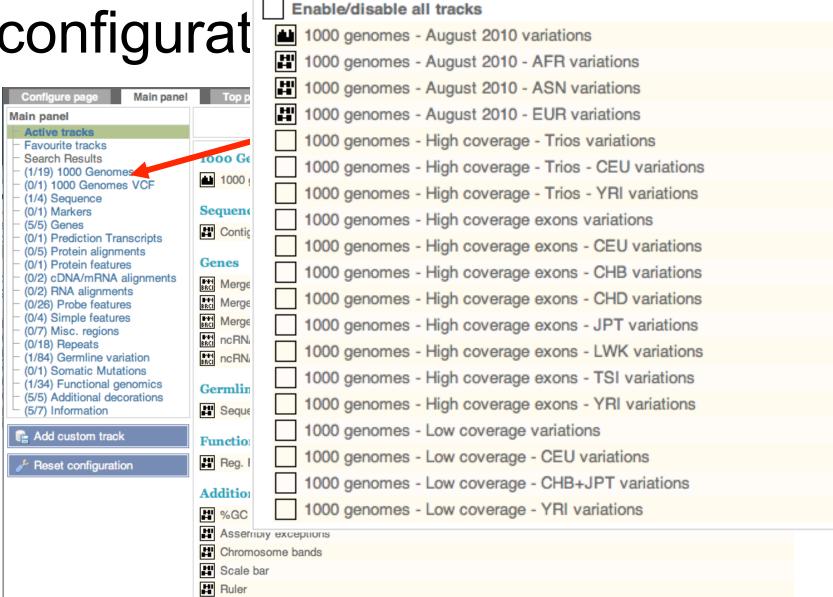
Main location view



- and data expert links
- Includes only human data in current release



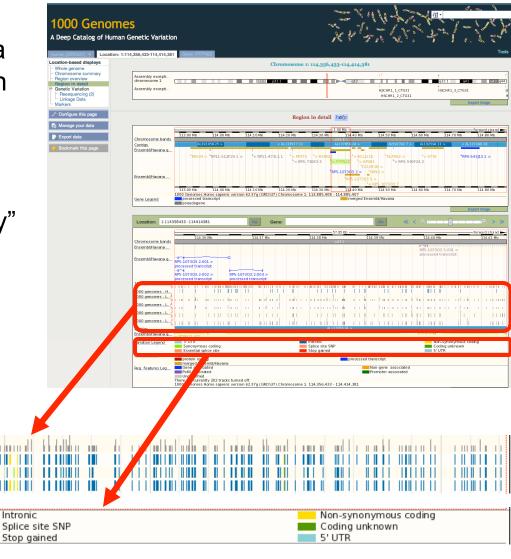
Page configurat



1000 Genomes

1000 Genomes SNPs

- The variation data of the August 2010 release and pilot project data can be viewed in specific tracks on location pages.
- These are selected from the "Configure this page" menu.
- Track can be displayed as "density" or "compact".
- In "compact" view, variations are coloured by their functions.
- Tracks for all SNPs from dbSNP build 132 are also available



Synonymous coding

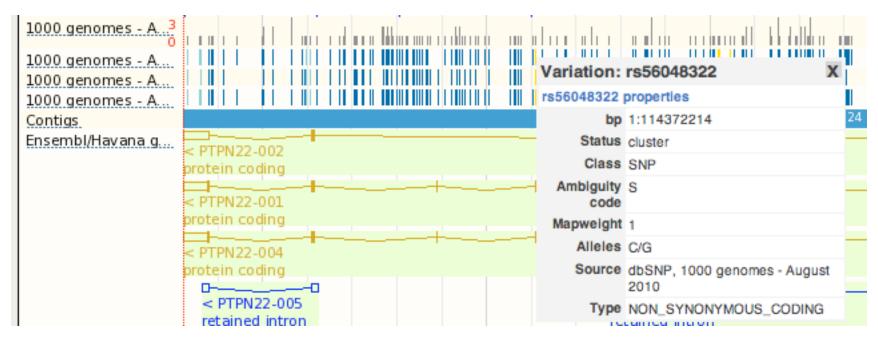
Essential splice site

1000 genomes - A. 1000 genomes - A. 1000 genomes - A.

Variation Legend

SNP Information

- SNPs are clickable which brings up a small window with basic information
- The "SNP properties" link leads to a dedicated page for the SNP with detailed information (including information imported from dbSNP)

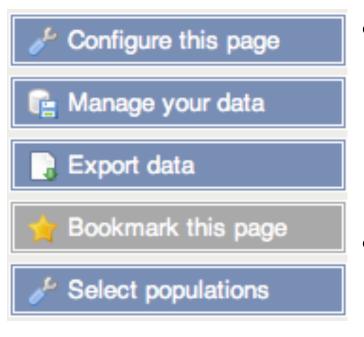


1000 Genomes ome 1: 114,356,433-114,414,38 Linkage Disequilibrium Data he! Population: 1000GENOMES:low_coverage:CEU [size: 60] -0~0 RP5-1073O3.2-002 >

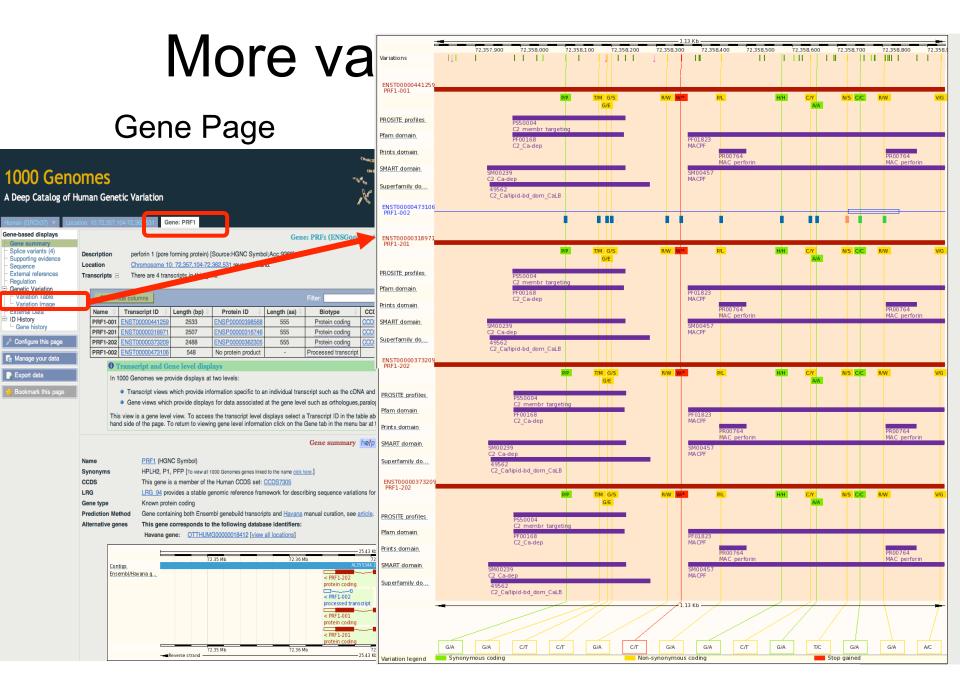
LD Information

- Currently based on data from HapMap and 1000 genomes project populations
- Populations selectable from drop down tab

Data Export

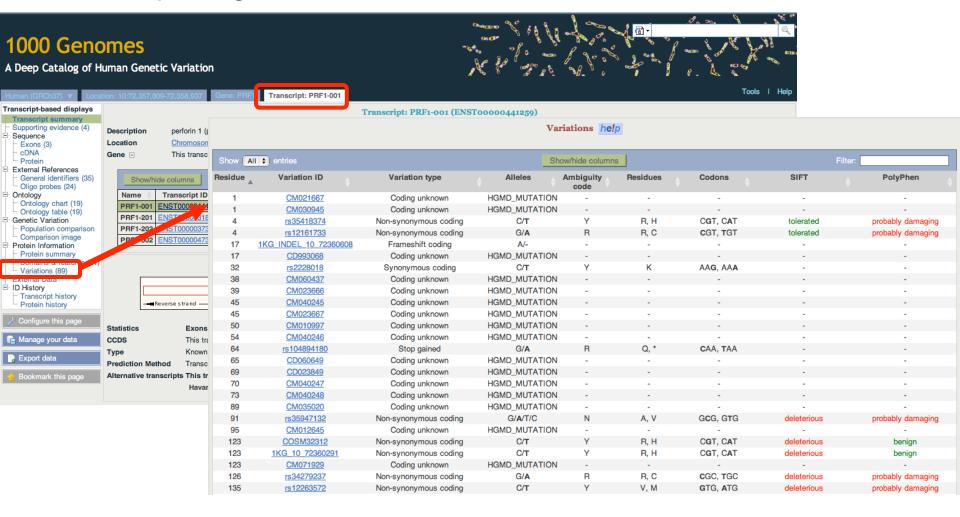


- Summary data from the region being viewed can be exported
- Export format (such as html, excel, text) can be specified



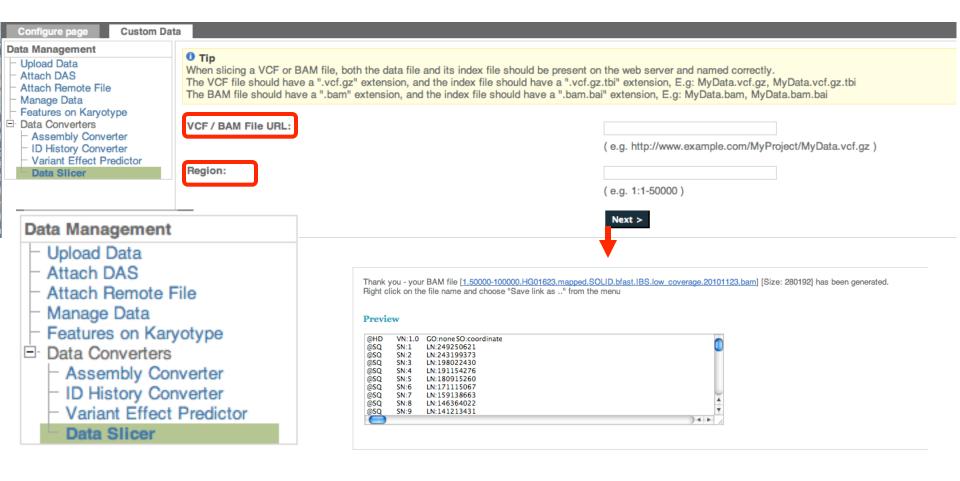
More variation displays

Transcript Page

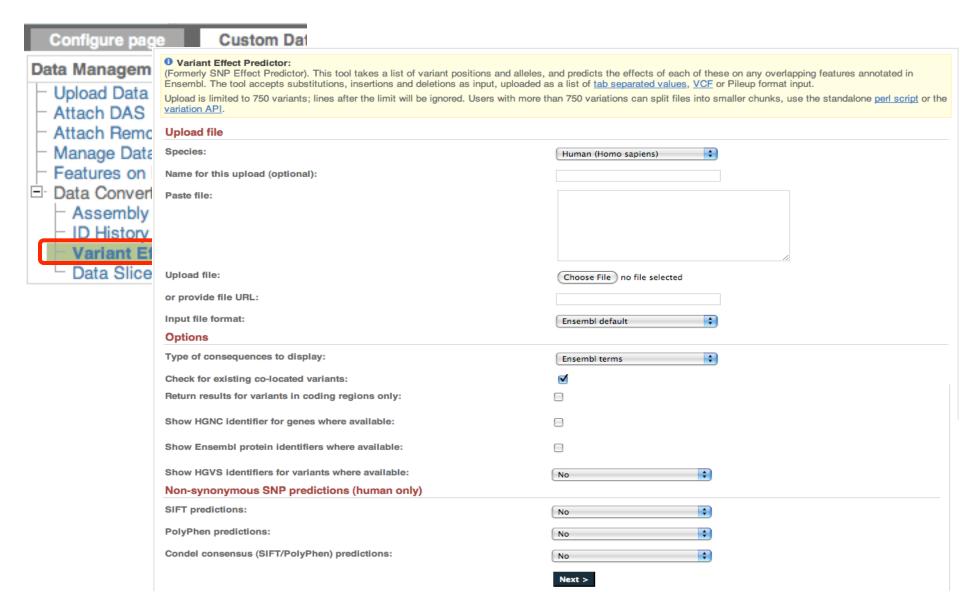


Data Slicer

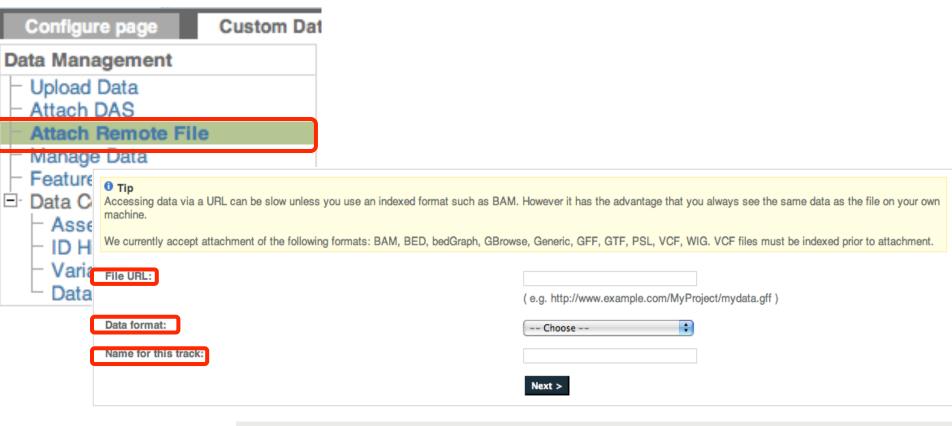
- Data Slicer allows you to get a fraction of the data within a chromosomal region you specified.
- Accessed from the Data Management page.
- Works on BAMs or VCFs accompanied by appropriate index files.

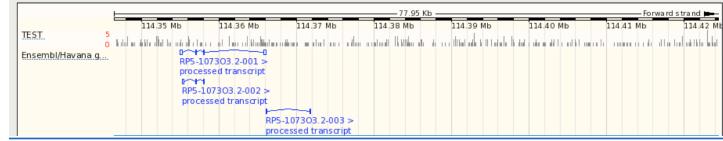


Variant Effect Predictor



Upload Variant or Alignment Data Into the Browser





Credits

- Eugene Kulesha, Glenn Proctor
- Natassa Spiridou
- Will McLaren, Fiona Cunningham
- Laura Clarke, Holly Zheng-Bradley, Rick Smith

info@1000genomes.org