

Sheldon McKay



My background is in genetics and bioinformatics. I have a solid grounding in both molecular and computational biology. I work as a lead scientific data analyst at Regeneron Pharmaceuticals. My role is to develop and implement data management practices for the Tier 1 pre-therapeutic target discovery group, identifying potential targets for future biological drug therapies. This is the earliest phase of preclinical research and is science and discovery focused.

More Information

- Click on a section title below to open:

Research

- Evolutionary genetics
- Functional and comparative genomics
- Scientific software development

Computational

- Object Oriented Perl; Perl/CGI, Perl/DBI
- JavaScript; AJAX; CSS
- MediaWiki and PHP
- SQL and database design
- Massive Parallel Computing with PBS and SGE
- Genome database mining (NCBI, Ensembl)
- Gene Ontology and KEGG pathway analysis
- Genome and Comparative Genome data visualization
- Phylogenetic inference methods
- Digital signal processing of DNA
- The Mediawiki extension that opens and closes these sections

Email: sheldon.mckay@gmail.com

- Active in the [GMOD](#) and [iPlant](#) consortia
- [GBrowse_syn](#) primary developer
- [GBrowse_karyotype](#) primary developer
- [GBrowse](#) core developer
- [GBrowse PrimerDesigner plugin](#) for inline design and selection of PCR primers
- [GBrowse Spectrogram plugin](#) for spectral analysis of DNA

- Annoying Popup Balloons

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