









Performing Small-N Sequencing Workflows: Approaches to Analyzing Trio NGS Data







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Today's Agenda



- 1 Overview
 - Why perform sequence analysis using small families?
 - Workflow Approach: Data Quality Preparation, Initial Investigation, Analysis
- 2 SNP & Variation Suite (SVS)
 - Python Interface
- 3 SVS Demo
- 4 Conclusion



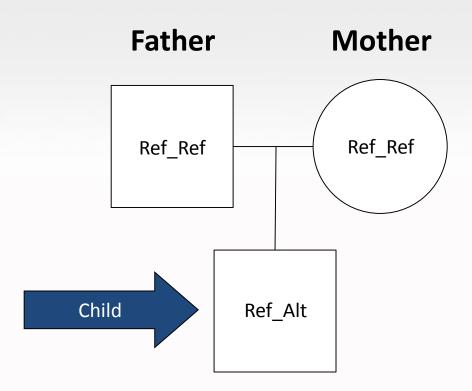


Overview



Why perform seq analysis using small families?







The 3-Part Workflow Approach



Data Quality Genotype Read Depth Allelic Ratio Quality Preparation Initial **Variant Functional** Damaging Investigation Frequencies Collapsing Inheritance Case/Control **Analysis** based Frequency **Patterns** analysis



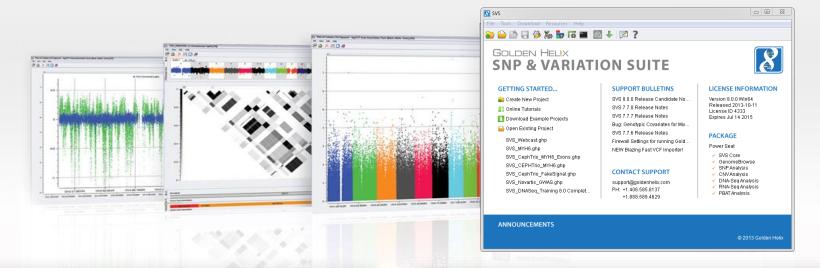


SNP & Variation Suite (SVS)



SNP & Variation Suite (SVS)





Core Features

- Powerful Data Management
- Rich Visualizations
- Robust Statistics
- Flexible
- Easy-to-use

Applications

- Genotype Analysis
- DNA sequence analysis
- CNV Analysis
- RNA-seq differential expression
- Family Based Association



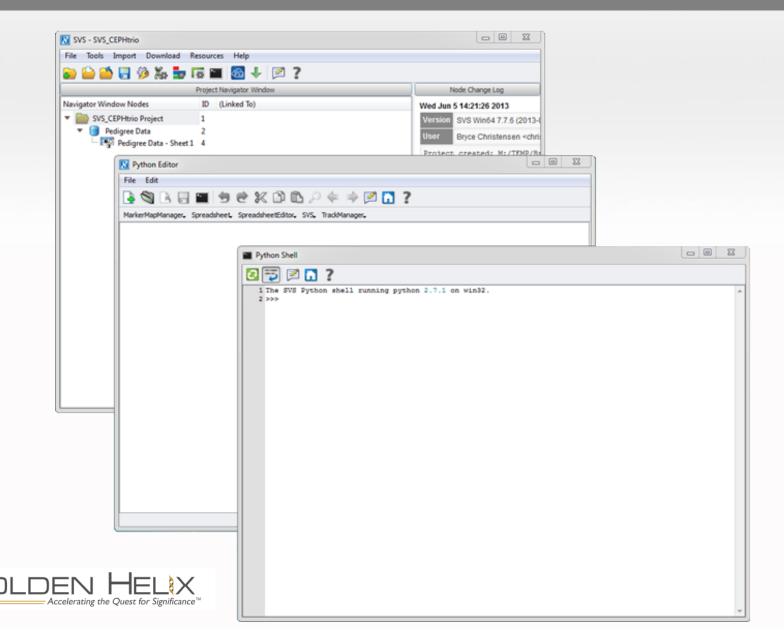


Python Interface



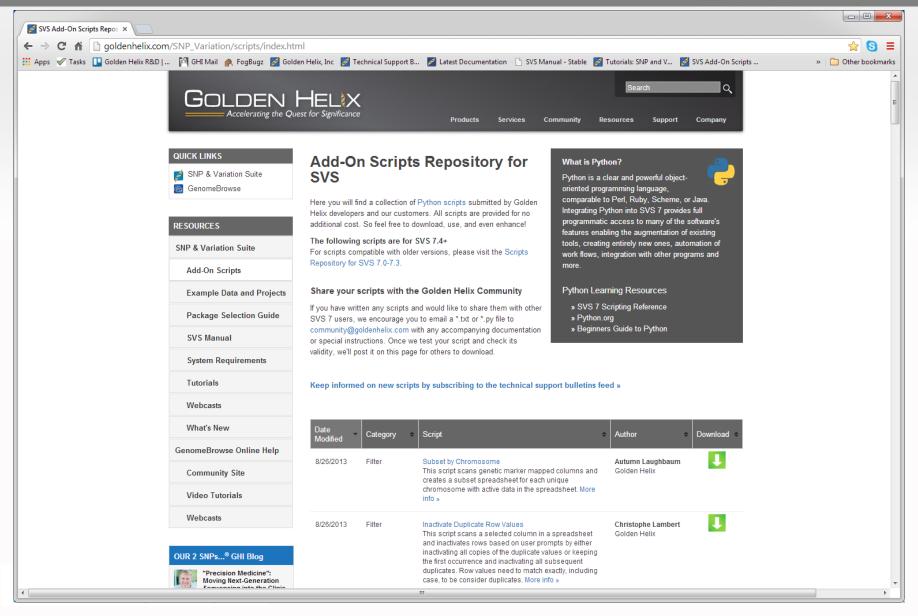
Python Interface





SVS Add-On Scripts Repository







SVS Demo



Exome Sequencing









Data
Quality
Preparation

Read Depth Genotype Quality Allelic Ratio





Initial Investigation

Variant Frequencies

Functional

Damaging





Analysis

Inheritance Patterns Case/Control Frequency

Collapsing based analysis

[Poll]





Conclusion







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