

# HOW ANALYZE DATA

The screenshot displays the GENESIS 2.0 interface. At the top, a dark navigation bar contains the logo and menu items: DASHBOARD, ANALYZE, DATA, LABS, PROJECTS, UPLOAD, FEEDBACK, and HELP. Below this is a search bar with the text "Select Data & Apply Genomic Filters" and a notification "259 individuals are in your dataset(s)". The main content area is divided into three sections: "Select Data", "Refine Included Data", and "Included Filters".

**1** An arrow points to the "ANALYZE" button in the top navigation bar.

**2** An arrow points to the "Select Data" tab in the left sidebar, which contains a list of data sources: Labs, Individuals, Clinical Details, and Select From Individual Grid, each with a plus sign.

**3** An arrow points to the "Accept Values" button in the "Refine Included Data" section, which is highlighted in orange. The section also shows a list of projects with checkboxes for "Public Charcot Marie Tooth" and "Public Hereditary Spastic Paraplegia".

**4** An arrow points to the "Next-->" button at the bottom of the "Select Data" section.

1. Click on ANALYZE in the top banner
2. SELECT DATA to choose data you have access to analyze. You can filter by Lab, Projects, etc...
3. Be sure to select ACCEPT VALUES
4. Once data is selected, click NEXT

**5** Genomic Filters

**6** Variant filtering

**7** PREDEFINED FILTERS

**8** Inheritance Pattern

**9** Allow Mendelian Errors?

**10** Analyze

**8.** You can always edit or delete any value you selected.

**9.** Be sure to select ACCEPT VALUES

**10.** Once everything is selected, click ANALYZE

5. GENOMIC FILTERS lets you choose how to analyze the data

6. VARIANT FILTERING:

- Variant filtering: traditional filtering
- Mutated in Multiple Families: search for genes shared by unrelated individuals
- Families Sharing the Same Allele: search for alleles shared by unrelated individuals

7. PREDEFINED FILTERS

It is often advantageous to select predefined filter to get started and then refine by choosing filters from the left side of the screen. Available predefined filters are:

- Delayed: Moderate Dominant model; Moderate Recessive model; Strict Dominant model; Strict Recessive model