#### NextGENe AutoRun

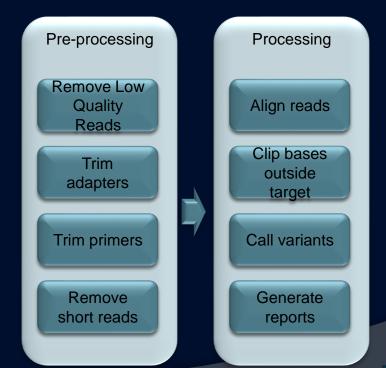
- Create custom templates (optional)
- Create Job File
- Run AutoRun

### **Customize Default Templates**

- Create custom templates
  - Save pre-installed template as new template
  - Add reference
  - Add tracks (optional)
  - Add/adjust other output report settings

## **Customize Template**

Pre-processing configuration	NextGENe's Tools menu
Post-processing configuration	NextGENe Viewer's report menus
Alignment/variant detection configuration	NextGENe's Project Wizard
Build template	AutoRun's Job File Editor

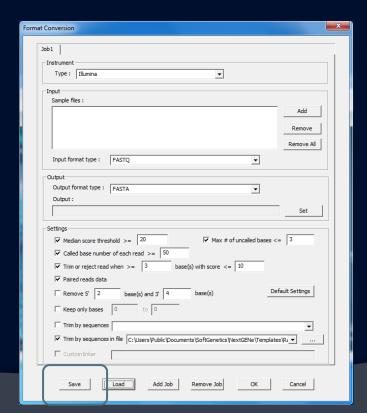


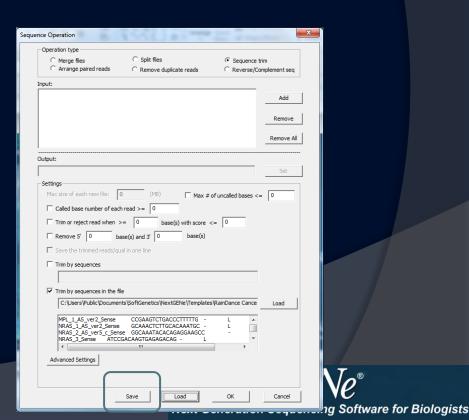


### Pre-processing Configuration

(NextGENe's Tools menu)

- Format Conversion can remove low quality reads and adapters
- Sequence Operations are steps that are configured to trim adapters, remove duplicates, as well as a few other possible operations
- Make edits, and click Save





## Post-processing Configuration

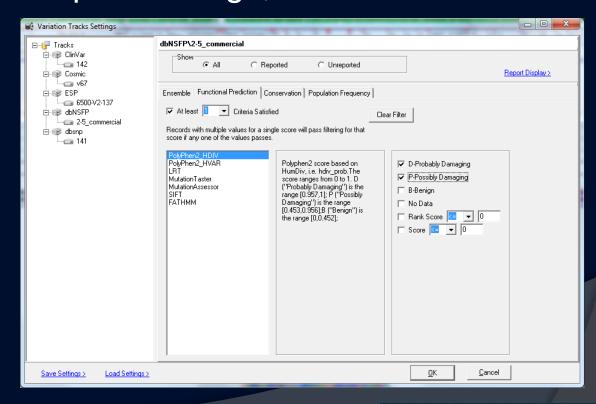
(NextGENe Viewer's report menus)

Reports like coverage, expression and variants

Open a project in NextGENe Viewer

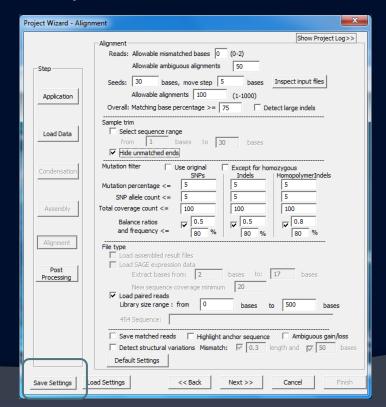
Make edits to report settings, and click Save

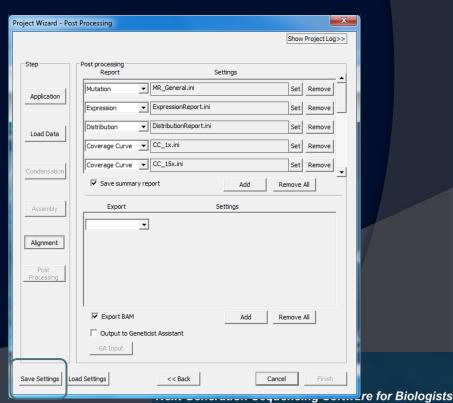
Settings



# Alignment/Variant Detection (NextGENe's Project Wizard)

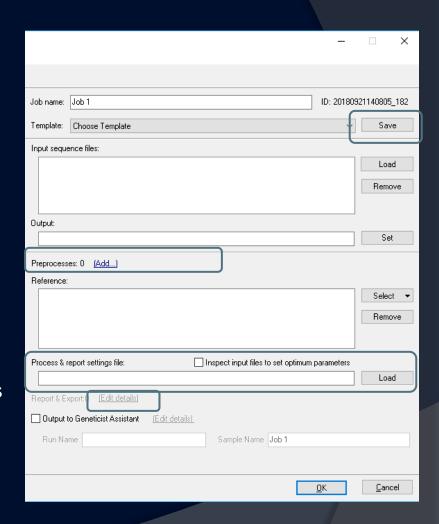
- Alignment and variant detection sensitivity can be adjusted through the NextGENe's Project Wizard
- Post-processing configuration files can be added to the last step of the Project Wizard, or they can be added directly to the template





## Build Template (NextGENe AutoRun's Job File Editor)

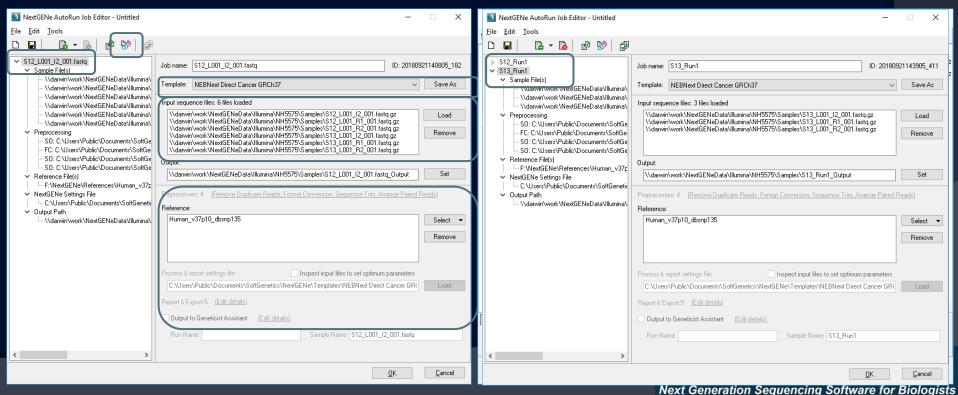
- Edit a template, or create a new template
  - If only minor changes to a template are needed, select the template, click on Edit and Save As a new template
- Edit Preprocessing steps
  - Select the Preprocesses link and load the Format Conversion and Sequence Operations configuration files
- Choose the alignment configuration file
- Edit Output details to add/edit report configuration files
  - If the alignment configuration file already includes the output reports, then this step is not necessary
- Save the template
  - When you save a new template within the NextGÉNe AutoRun, all configuration files are copied to the template's folder



#### Create Job File

NextGENe AutoRun's Job File Editor)

- Add input files (multiple samples can be added)
- Select Template (optional),
  - Or add preprocessing steps, reference and process & report settings
- Group input files into Jobs
- Group Jobs can be used when multiple samples are analyzed with the same settings



#### Run AutoRun

- AutoRun checks for job files in the Job file detecting directory . When a job file is found, it is scanned for number of jobs.
- Each job within job file is checked for necessary files.
- Jobs are processed as job files become available.
- Completed job files are moved out of the queue.
- New job files can always be added to the queue.

