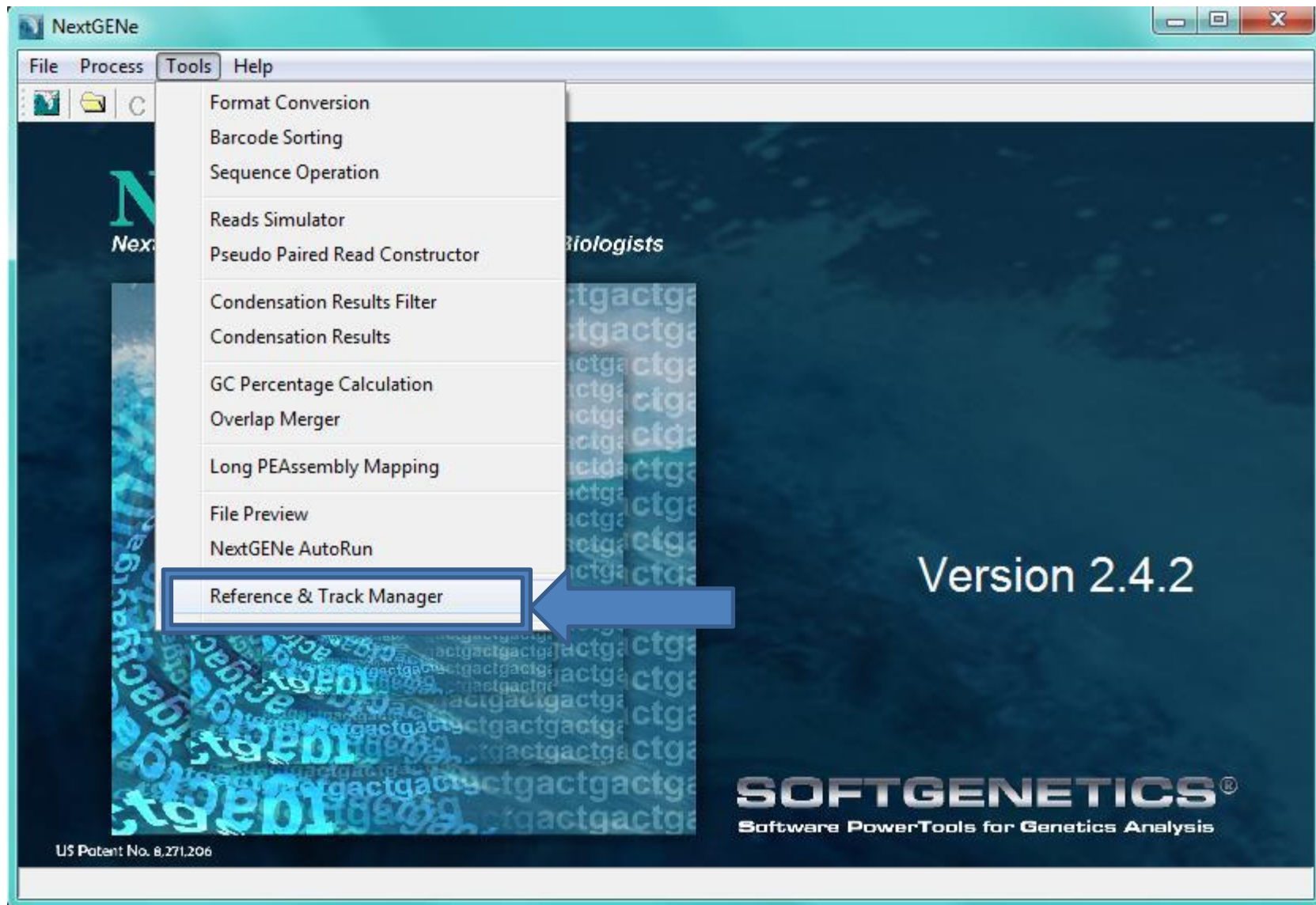


# NextGENe Reference and Track Manager

Importing information from  
dbSNP or ClinVar

# Track Manager Tool



# Reference & Track Manager Tool

Shows all imported preloaded references and tracks

Storage Path: F:\References

Genome Build: All

Preloaded References [Build Reference](#) [Import Reference](#)

Reference	Genome Build	Annotation DB	Comments
Human_v37p10_dbsnp135	Human_GRCh37	sg_grch37p10	
Human_v37p10_MajorChr_dbsnp135	Human_GRCh37	sg_grch37p10	
Human_v37p13	Human_GRCh37	sg_grch37p10	
Human_v37_3_dbsnp135_dna	Human_GRCh37	sg_v37_3_dbsnp135_human_dna	
C.elegans_ws170_dna	reference::C.elegans_ws170_dna	sg_ws170_c_elegans_dna	
c_elegans_WS226	reference::c_elegans_WS226	N/A	

Tracks [Import Track >](#)

Track	Type	Genome Build	Default Query	Last Modified	Location
dbscsnv\1.0	dbscSNV	Human_GRCh37	No	06/08/16 08:30:19	Tracks
dbsnp\clinvar_20160502.vcf	dbSNP	Human_GRCh37	Yes	05/23/16 15:11:24	Tracks
custom\dbSNP_b146	VCF	Human_GRCh37	No	02/09/16 11:30:54	Human_v37p10_MajorChr_dbsnp...
dbNSFP\2.9	dbNSFP	Human_GRCh37	Yes	01/29/16 16:45:25	Human_v37p10_MajorChr_dbsnp...

# Importing ClinVar/dbSNP

Click “Import Track” > “dbSNP/ClinVar”

Storage Path: F:\References

Genome Build: All

Preloaded References

Reference	Genome Build	Annotation DB	Comments
Human_v37p10_dbsnp135	Human_GRCh37	sg_grch37p10	
Human_v37p10_MajorChr_dbsnp135	Human_GRCh37	sg_grch37p10	
Human_v37p13	Human_GRCh37	sg_grch37p10	
Human_v37_3_dbsnp135_dna	Human_GRCh37	sg_v37_3_dbsnp135_human_dna	
C.elegans_ws170_dna	reference::C.elegans_ws170_dna	sg_ws170_c_elegans_dna	
c_elegans_WS226	reference::c_elegans_WS226	N/A	

Tracks

Track	Type	Genome Build	Default Query	Last Modified	Created
dbscsnv\1.0	dbscSNV	Human_GRCh37	No	06/06/16 08:38:15	Tracks
dbSNP\clinvar_20160502.vcf	dbSNP	Human_GRCh37	Yes	05/23/16 15:11:24	Tracks
custom\dbSNP_b146	VCF	Human_GRCh37	No	02/09/16 11:30:54	Human_v37p10_N
dbNSFP\2.9	dbNSFP	Human_GRCh37	Yes	01/29/16 16:45:25	Human_v37p10_N

Import Track >

- dbSNP/ClinVar
- COSMIC
- dbNSFP
- dbscSNV
- Custom Variant Track
- Gene Annotation Track

# Importing ClinVar/dbSNP

Use File Explorer or an FTP Client such as FileZilla:

## **GRCh37**

ClinVar: [ftp.ncbi.nih.gov/pub/clinvar/vcf\\_GRCh37/clinvar.vcf.gz](ftp.ncbi.nih.gov/pub/clinvar/vcf_GRCh37/clinvar.vcf.gz)

dbSNP:

[ftp://ftp.ncbi.nlm.nih.gov/snp/.redesign/pre\\_build152/organisms/human\\_9606\\_b151\\_GRCh37p13/VCF/All\\_20180423.vcf.gz](ftp://ftp.ncbi.nlm.nih.gov/snp/.redesign/pre_build152/organisms/human_9606_b151_GRCh37p13/VCF/All_20180423.vcf.gz)

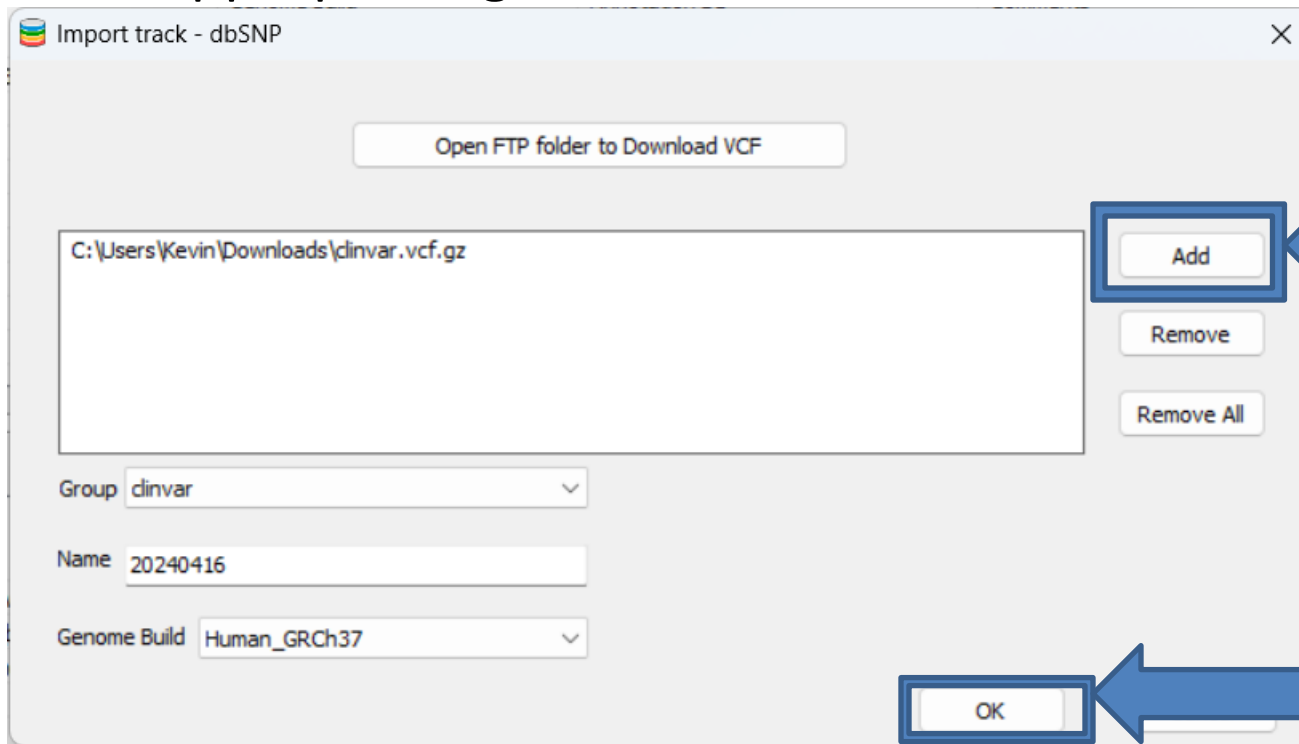
## **GRCh38**

ClinVar: [ftp.ncbi.nih.gov/pub/clinvar/vcf\\_GRCh38/clinvar.vcf.gz](ftp.ncbi.nih.gov/pub/clinvar/vcf_GRCh38/clinvar.vcf.gz)

dbSNP: [ftp.ncbi.nih.gov/snp/organisms/human\\_9606\\_b144\\_GRCh38p2/VCF/00-All.vcf.gz](ftp.ncbi.nih.gov/snp/organisms/human_9606_b144_GRCh38p2/VCF/00-All.vcf.gz)

# Importing ClinVar/dbSNP

- Click “Add” to load the file.
- Select “ClinVar” or “dbSNP” from the Group dropdown menu
- Enter a name, such as the dbSNP or ClinVar version number
- Select the appropriate genome build and click OK.



# Automatically Query Tracks

Following import, the Default Query should be set to “Yes” to automatically query the track information for all future projects

Right-click on a track and select “Set Default Query” to set to “Yes” or “No”

Storage Path: F:\References

Genome Build: All

Preloaded References

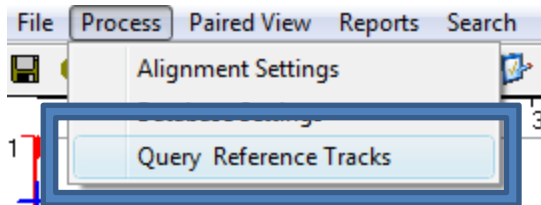
Reference	Genome Build	Annotation DB	Comments
Human_v37p10_dbsnp135	Human_GRCh37	sg_grch37p10	
Human_v37p10_MajorChr_dbsnp135	Human_GRCh37	sg_grch37p10	
Human_v37p13	Human_GRCh37	sg_grch37p10	
Human_v37_3_dbsnp135_dna	Human_GRCh37	sg_v37_3_dbsnp135_human_dna	
C.elegans_ws170_dna	reference::C.elegans_ws170_dna	sg_ws170_c_elegans_dna	
c_elegans_WS226	reference::c_elegans_WS226	N/A	

Tracks

Track	Type	Genome Build	Default Query	Last Modified	Location
dbscsnv\1.0	dbscSNV	Human_GRCh37	No	06/08/16 08:30:19	Tracks
dbsnp\clinvar_20160502.vcf	dbSNP	Human_GRCh37	Yes	05/23/16 15:11:24	Tracks
custom\dbSNP_b146	VCF	Human_GRCh37	No	02/09/16 11:30:54	Human_v37p10_MajorChr_dbsnp...
dbNSFP\2.9	dbNSFP	Human_GRCh37	Yes	01/29/16 16:45:25	Human_v37p10_MajorChr_dbsnp...

# Query ClinVar/dbSNP

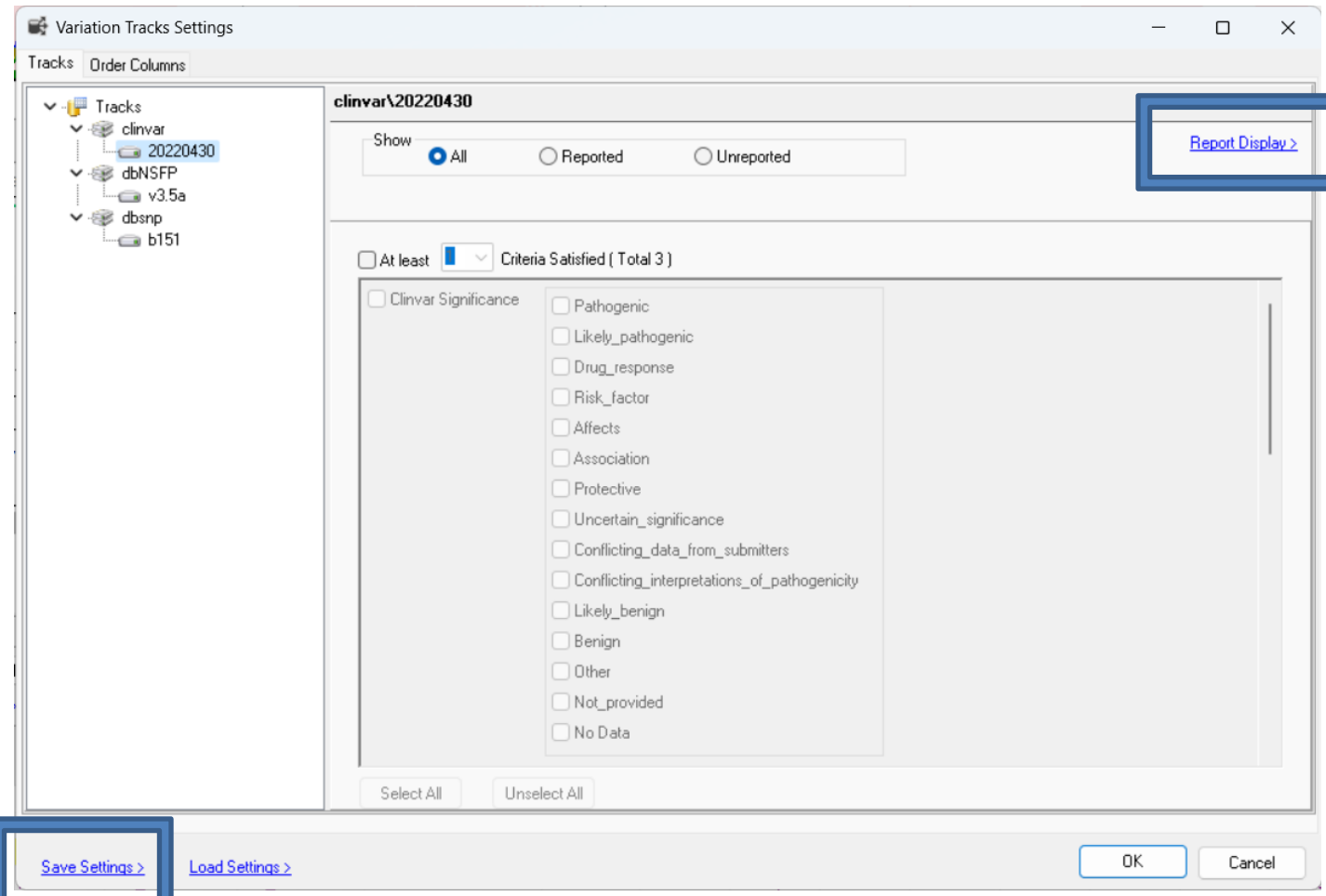
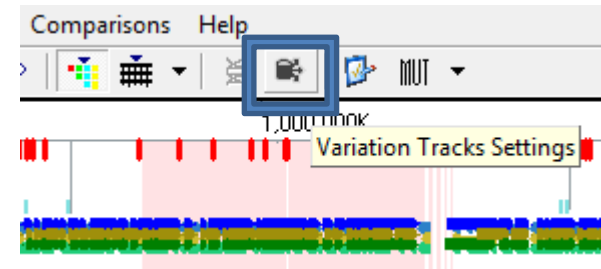
The database can be queried for existing projects from within the Viewer





# Variation Track Settings

Main dialog shows imported tracks in Left Pane,  
Filtering options in Right Pane, and hyperlink to Report Display options



Save Settings, so  
they can be used  
automatically

# Configure to Use Track Settings

- Click Set
- Add Track Settings
- Click OK
- Save Process Settings

