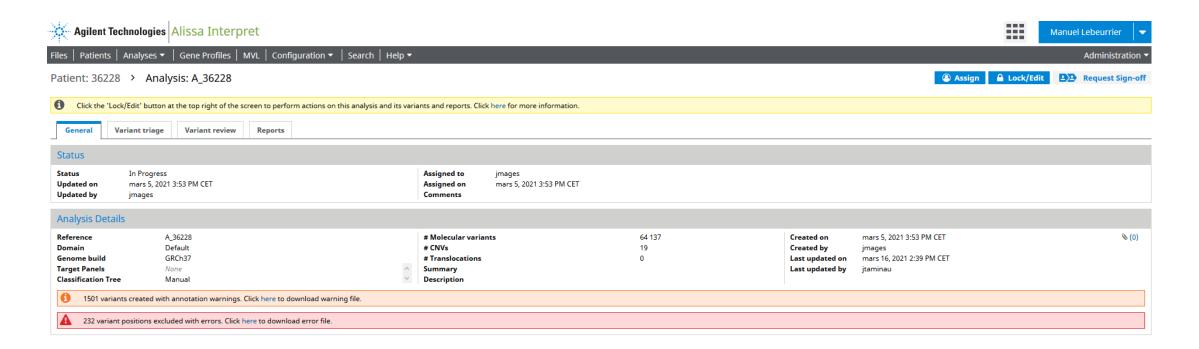
# Alyssa

#### Bonnes idées

- Graphe de filtres = stratégie : suite d'opération (briques en drag and drop)
- Flagger les opérations manuelles dans le graphe (expertise utilisateur ajoutée ou en attente)
- Valider une stratégie (fige la config)
- Partager une stratégie (publique)
- Etiqueter une stratégie (clinical domains : à quoi sert cette stratégie)
- Représentation de l'ACMG
- Représentations des overlaps en % d'une boite
- Gestion des d'identifiants entre les manip (CGH034 <-> VCF18)
- Waiting analyses

Les informations sont très similaires à celles qu'on avait décrites : Statut de l'analyse, date, génome, strétgie de filtres utilisées, input types (VCF, CNV, CGH...)



Les informations sont très similaires à celles qu'on avait décrites :

Fichiers et contenus.

Phénotype.

Structure familiale.

Lab Results							
Status	Source	F	Regions of low coverage	File Type	# Var. pos. in Lab Result	# Var. pos. used in Analysis	# Variants in Analysis
Ready <b>1</b>	DI_WESA_20-36228.gatk.haplotype.sn	o_indel.filtred2.vcf (20-36228-A-02-00)		VCF File	57 721	57 721	64 137
Ready	IntervalBasedReport_20488.xls (20-20	488-252206093341_1_2)		Cytogenomics Interval File	19	19	19
Phenotype  Code Phenotype Trait  No phenotype traits found.					Modifiers		Actions
Family Members							
Family Membe	rs						
Family Membe	Affected status	Lab Results			# Var. pos. in Lab Result	# Var. pos. used	in Analysis
-		Lab Results DI_WESA_20-36228.gatk.haplotype.snp_indel.filtred2.vcf (20-3764)	7-A-02-00)		# Var. pos. in Lab Result 57 701	# Var. pos. used	l in Analysis

Les informations sont très similaires à celles qu'on avait décrites : Sources de BDD utilisées (nécessaire uniquement dans le rapport)

#### Sources

Platform Dataset

Genome build Annotation Sources 33, RefSeq Transcripts v96 + RefSeqGene released 2019-10-22

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GRCh37.p13

Name Description

1000Genomes Phase1 release v3.20101123

1000GenomesPhase3 1000 Genomes Phase 3 release v5 (10 September 2014), including GRCh38 data

CGA ClinGen CNV Atlas 2019-10-07

CGDS ClinGen Dosage Sensitivity Map 2019-08-12

CGDS GENE ClinGen Gene Curation Dosage Sensitivity Map - 2019-07-15

CIVIC - Clinical Interpretations of Variants in Cancer - release 01-Oct-2019

COSMIC COSMIC release v90
ClinVar NCBI ClinVar 2019-10

DGV Database of Genomic Variants 2016-05-15
DPOP DECIPHER population CNVs v9.23
DSYN DECIPHER syndromes 2019-10-05

ESP6500 Variants in the ESP6500SI-V2 dataset of the exome sequencing project (ESP), annotated with SeattleSegAnnotation137.

ExAC ExAC release 1.0 - including GRCh38 from liftover data

JAX Somatic gene variant annotations and related content powered by The Jackson Laboratory Clinical Knowledgebase (JAX-CKB™) - version 20200124

OMIM 2019-10-25

dbNSFP v3.0b2: Database of functional predictions for non-synonymous SNPs

dbSNP build 151

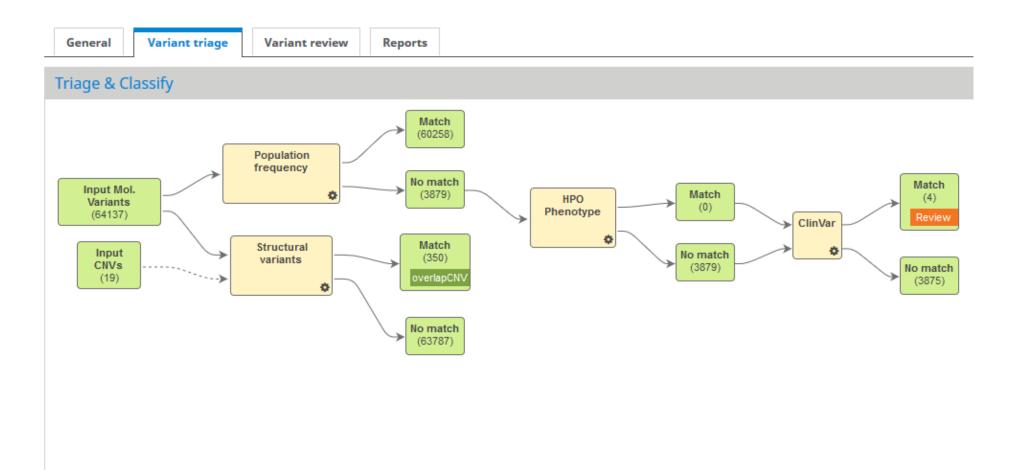
gnomAD gnomAD release 2.0.2 - with additional multi-allelic insertions and GRCh38 statistics from the lift-over vcf files

Les informations sont très similaires à celles qu'on avait décrites : Audit trail

Change History				
Updated on	Updated by	Scope of change	Action	
mars 16, 2021 4:47 PM CET	mlebeurrier	Analysis access	Analysis has been accessed	
mars 16, 2021 2:37 PM CET	jtaminau	Filtering	Filtered Molecular variants using classification tree bin: ClinVar () Match	
mars 16, 2021 2:19 PM CET	jtaminau	Analysis access	Analysis has been accessed	
mars 12, 2021 10:36 AM CET	jtaminau	Analysis access	Analysis has been accessed	
mars 8, 2021 9:46 AM CET	jmages	Analysis access	Analysis has been accessed	
mars 5, 2021 3:53 PM CET	jmages	Analysis status	In Progress	
mars 5, 2021 3:53 PM CET	jmages	Analysis access	Analysis has been accessed	
mars 5, 2021 3:53 PM CET	system	Analysis status	Available For Analysis	
mars 5, 2021 3:53 PM CET	jmages	Analysis details	Created analysis with reference: A_36228, summary: " and description: " and target panels: None	

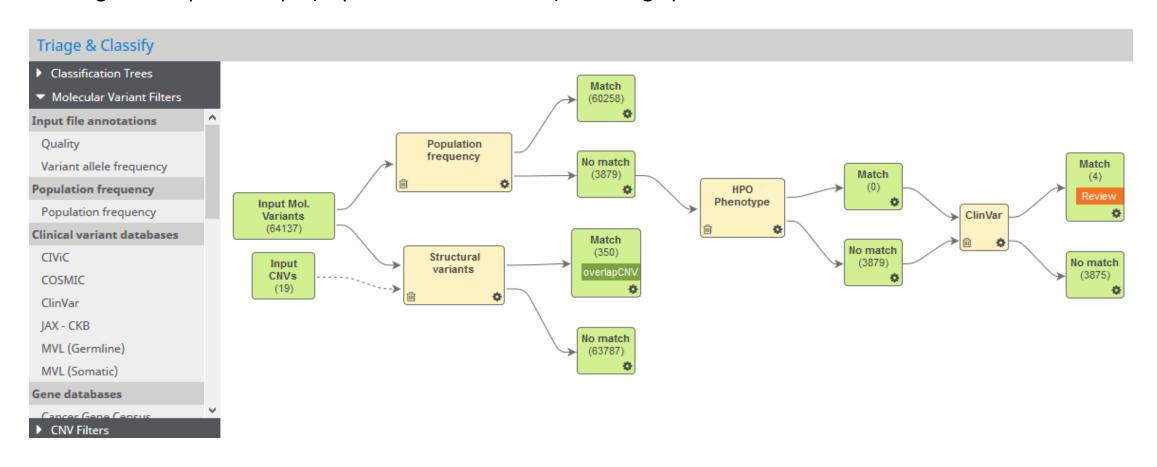
#### Variant triage = tableau de variants

Graphe de filtre interactif avec les étapes filtrages et les comptages associés.

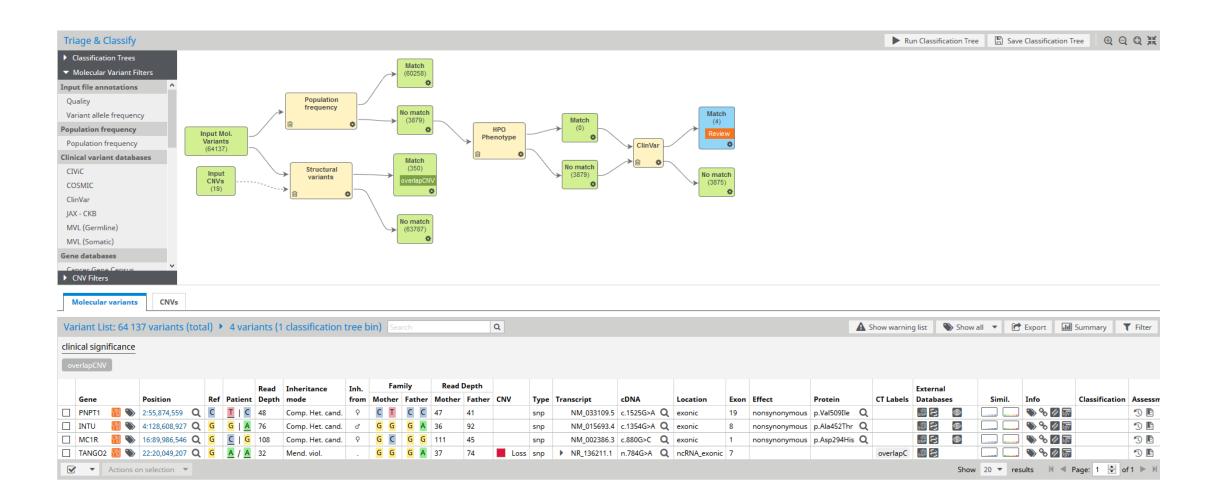


#### Editer le graphe

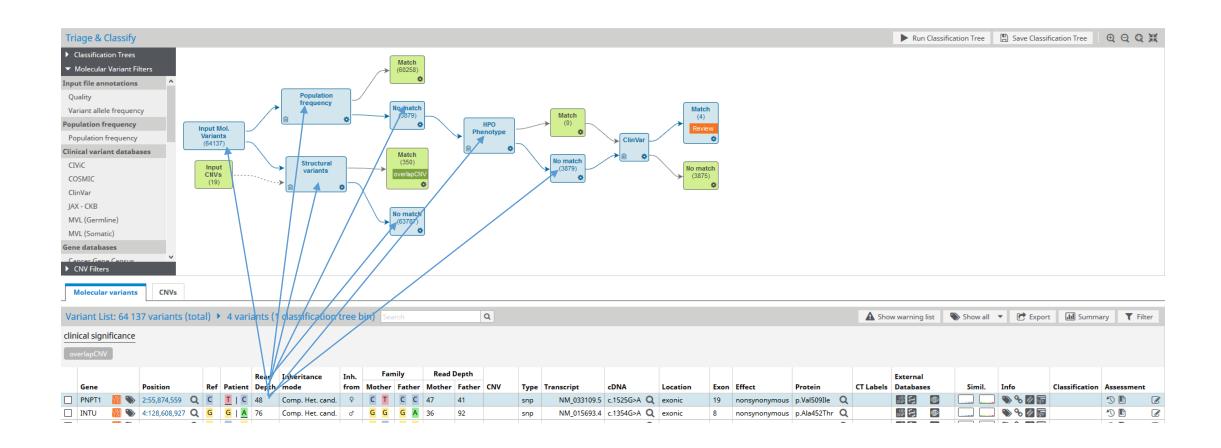
Drag and drop une étape (depuis la liste accessible) de filtrage puis la relier aux data.



#### Voir le tableau de variants d'une étape



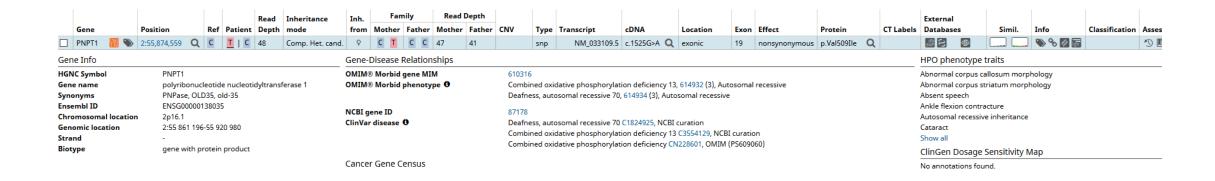
### Où retrouver un variant dans la stratégie



### Voir les annotations pour un variant

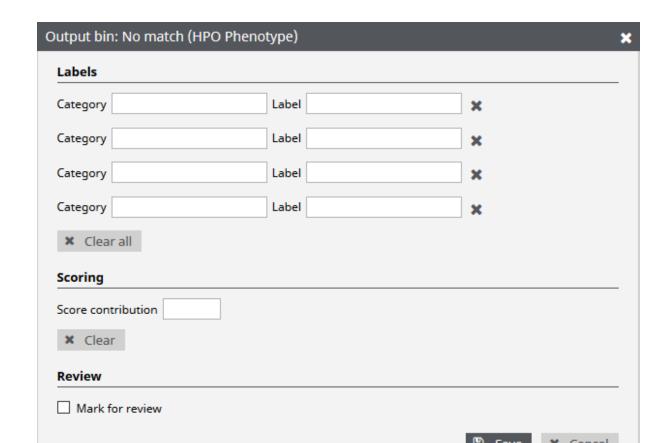
External databases		HGVS nomenclature		Quality		
bSNP	rs146571352	RefSeqGene	NG_033012.1	Observed allele 1 depth	18	
bSNP validated	yes	HGVS cDNA-level nomenclature	NM_033109.5:c.1525G>A	Observed allele 2 depth	30	
bSNP average heterozygosity	0.001	HGVS genomic-level nomenclature	NC_000002.11:g.55874559C>T	Allelic depth	C = 18	
dbSNP suspect false snp dbSNP clinical significance ClinVar Id ClinVar clinical significance ClinVar disease  no Likely pathogenic 209185, 209185, 209185, 209185 probable-pathogenic, other, other, unknown Combined oxidative phosphorylation deficiency 13, not specified, not		HGVS protein-level nomenclature	NP_149100.2:p.Val509Ile		T = 30 1376.16	
				Call quality		
			Population		99 PASS	
		<sup>ied, not</sup> Population				
OSMIC Id	provided, Hypermetropia COSM7384835	ESP6500 allele frequency	15/13006=0.001 15/6503=0.002 91/121358=0.001	GERP++ neutral rate	5.53	
OSMIC Id OSMIC sample count	2	ESP65000 genotype frequency		GERP++ RS score PhyloP score	5.53 0.871	
•	Pulmonany adonosarsinoma, non small soll lung sansor (NSC)	ExAC allele frequency				
COSMIC tumor type (sample count) Pulmonary adenocarcinoma - non-small cell lung cancer (NSCLC) (1)  Substitution		gnomAD allele frequency	262/276804=0.001	SiPhy score	19.811	
		gnomAD genotype frequency	258/138402=0.002			
		Coding	Coding		Missense	
lutationTaster score	1	LRT score	0	BLOSUM45	3	
lutationTaster prediction	Disease causing	LRT prediction	Deleterious	BLOSUM62	3	
lutationAssessor score	0.625	LRT omega	0	BLOSUM80	3	
utationAssessor prediction	Neutral			SIFT score	0.136	
THMM Score	0.56			PolyPhen2 score HumDiv	0.992	
				PolyPhen2 score HumVar	0.867	
				PolyPhen2 prediction HumDiv	Probably damaging	
				PolyPhen2 prediction HumVar	Possibly damaging	
				PROVEAN Score	-0.83	
				PROVEAN prediction	Neutral	
Splice		Custom fields	Custom fields		Repetitive regions	
Positions from nearest splice site		30 No annotations found.		No annotations found.		

#### Voir les infos pour un gene



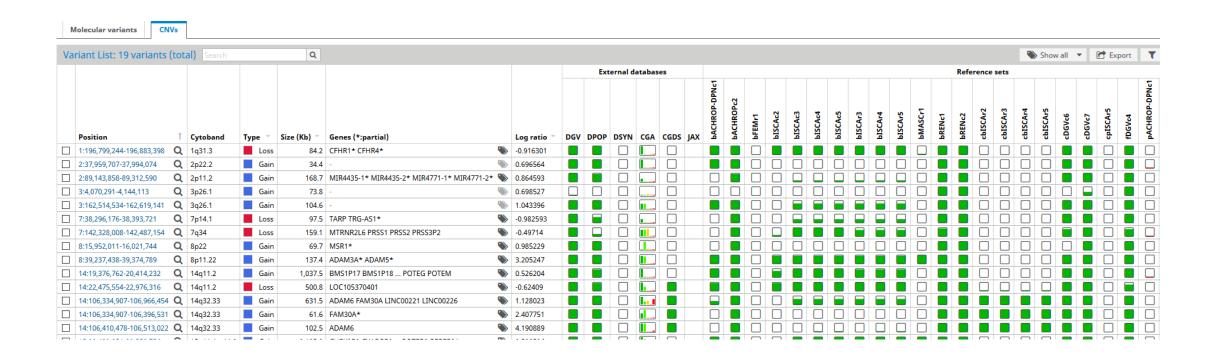
#### Flag human annotation

Cliquer sur n'importe quelle étape de la stratégie permet d'ajouter une catégorie, d'ajouter ces variants aux panier. Permet d'identifier où l'utilisateur intervient.





#### CNV tableau de variants



#### ACMG representation

Proportion of ACMG classes in th regions:

Benign: 10%

Likely benign: 10 %

•••

Pathogenic: 50%



#### Coverage of regions

- % of coverage of the element :
- Not only 0, 50, 100%



# Interface de filtre pas top

	Configure filter			×
Popul	Location	Туре	Classification	Inheritance mode
freque	exonic	snp	Benign	Dominant
	UTR5	deletion	Likely benign	Recessive
Struc varia	UTR3	insertion	☐ VOUS	Compound Heterozygous candidate
	intronic	substitution	Likely pathogenic	☐ Inherited - Unresolved
	upstream	reference	Pathogenic	Exclude variants that are present as homozygous (*)
	downstream	☐ Not specified	Not classified	in an unaffected parent or sibling
	intergenic ncRNA_exonic ncRNA_UTR5 ncRNA_UTR3 ncRNA_intronic Not specified	Effect		(*) including hemizygous for non-PAR X-linked or Y-linked variants in an unaffected father
		frameshift		Exclude variants that are not present in an affected
		stopgain		parent or sibling
		stoploss		Mendelian Violation
		startloss		Exclude variants that are present in an unaffected
		inframe		parent or sibling
	Read Depth >=  Marked for review  Included in report	nonsynonymous		Uncertain
		synonymous		P
assifica		☐ Not specified		Parent genotype
		Zygosity		Only display variants for which the genotype of both parents is available in the input data
		Homozygous var / var		
		Heterozygous wt / var		/arni
		Heterozygous var x / var		
		V		
		Hemizygous		
heritanc		,,,		
ode				▼ Apply filter
omp. Het.				

#### Le panier = variant review

Affiner la définition du panier. Ici human manageable variant list. Ajout d'informations tel que la classification les commentaires l'interprétation.

Mais surtout ajout au rapport du variant classification finale.

