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WiGits OncoAnalyser v2.2 release notes

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WiGiTs Oncoanalyser v2.2 Release Notes

Overview

The v2.2 pipeline release has these key improvements:

Esvee improved artefact detection

Theight: The

- Targeted panel resource file generation routine
- Longitudinal pipeline for ctDNA and other samples
- Improved copy number fitting and deletion calling for targeted panels
- Improved HLA typing for targeted panels
- TINC detection in Sage

Resource File Updates

Tool / Stage	Description	
Pave	Removed 58 variants from hg19 WGS PON and 57 variants from hg38 WGS PON	
Known fusions	UBTF exon DEL-DUP, TERT enhancer downstream region added	
Driver gene panel	Removed SPATA31A7	
Sage	No longer uses actionable and gene coverage files, derived from driver gene panel	
	PON regenerated for hg38	
Esvee	No longer uses blacklist file	
	PON regenerated using v1.1	
Lilac	IPD-IGMT/HLA database (allele sequences) - 2024-12-19	
	Allele Frequency Net Database (AFND) - 2025-01-28	
Purple	Germline deletion cohort frequency file following hg38 re-run	

Tool Updates

See tool releases and READ-ME for full details.

Tool	Version	Release Notes and Key Changes
Amber	4.2	Lower min VAF threshold
	4.2	Raise min_base_qual from 13 to 30
BamTools	1.4	Gene coverage & exon mean coverage moved from Sage to BamMetrics
Cider	1.0.4	
Cobalt	2.1	Use realised GC content, widen range (0.24 - 0.68), smooth points
	2.1	Only use on target regions for GC normalisation
Esvee		Various changes to remove artefacts
		Fixed issues relating to read assignment and assembly extension
	1.1	Improved homology identification
		Ignore SVs outside panel regions
		Improved PON matching
		Allele frequencies now based on global population frequencies from ANFD
		Replace wildcards in IMGT/HLA allele sequences with consensus 2-digit allele
		sequences
Lilac	1.7	Improved handling of variable coverage
		Filter and atida landing and datas based on valative lanthauthau absolutal