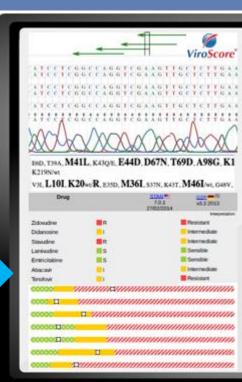


DEEPCHEK®-HIV ASSAYS & SOFTWARE

End-to end Solutions for HIV Genotyping for Drug Resistance Assessment (SANGER & NGS)

PRESENTATION





Presentation of ABL





About us





Advanced Biological Laboratories (ABL), S.A., is a diagnostic and medical software company founded in 2000 as a spin-off from LIH (Luxembourg)

ABL's mission is to develop,
manufacture and commercialize
proprietary end-to-end
diagnostic solutions for
infectious diseases and oncology,
in recurrent chronic diseases

The group is a 100% privately owned company, with offices in Luxembourg, France, Spain, South Africa and United States



An international, fully-integrated Diagnostics company





Presentation of ABL Genotyping solutions









Workflow Overview









RNA extraction

PCR

SANGER sequencing

NGS sequencing

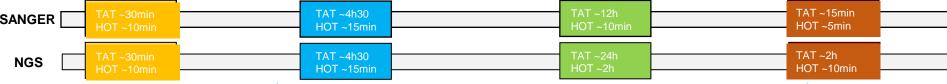
Data analysis

Lab & data analysis automation





	SANGER	NGS
Turnaround time	~17h	~3-4 days
Hands-on-time	~40min	~1-3 h







NGS + Robot

TAT ~30min HOT ~10min TAT ~4h30 HOT ~2min TAT ~24h HOT ~15min

HOT ~10min



Pipetting Robot













Fragmentation plate set-up

Fragmentation reaction

End-repair & A-tailing plate set-up

LIBRARY CLEAN-UP

End-repair & A-tailing reaction

Adaptor ligation set-up & reaction on-deck







PCR







Post PCR clean-up

NORMALIZATION



Quantification



Normalization and Pooling in a single tube



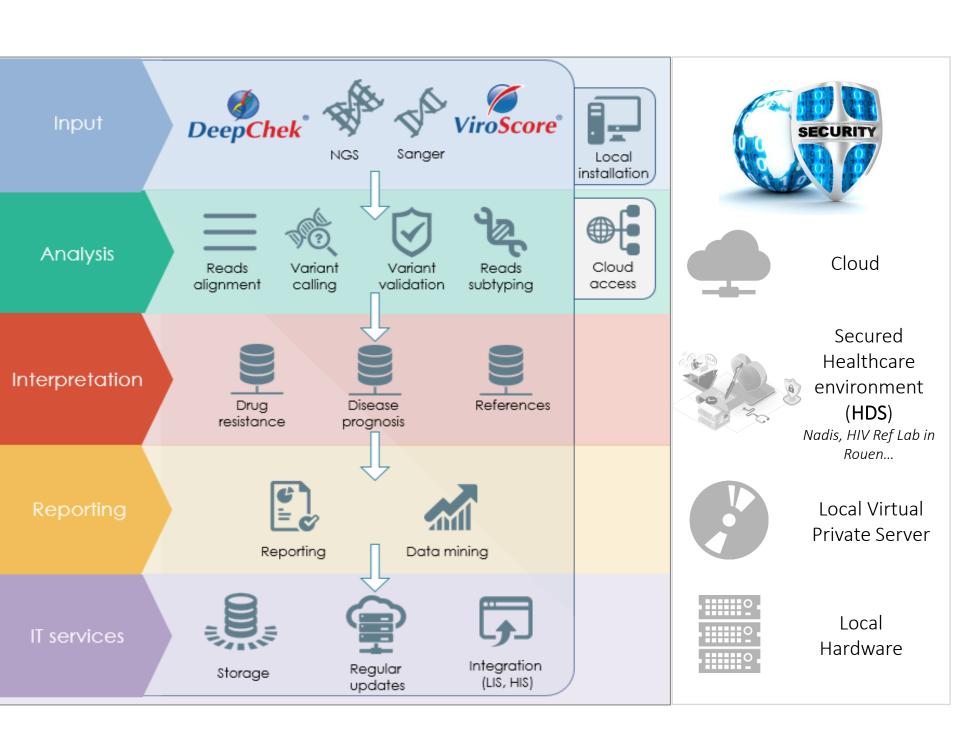
Automated protocol is complet





Software workflow





September 2021

Regulated applications







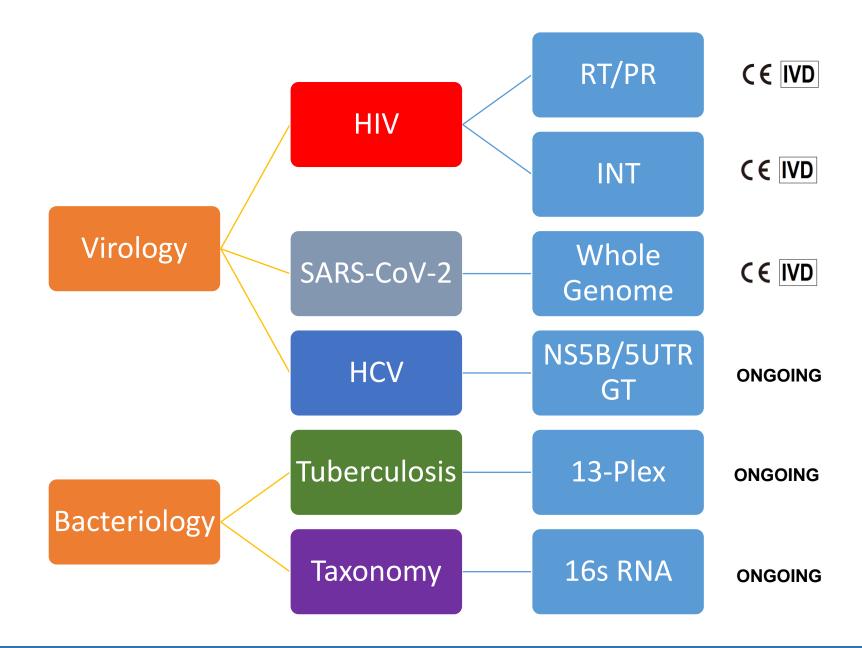






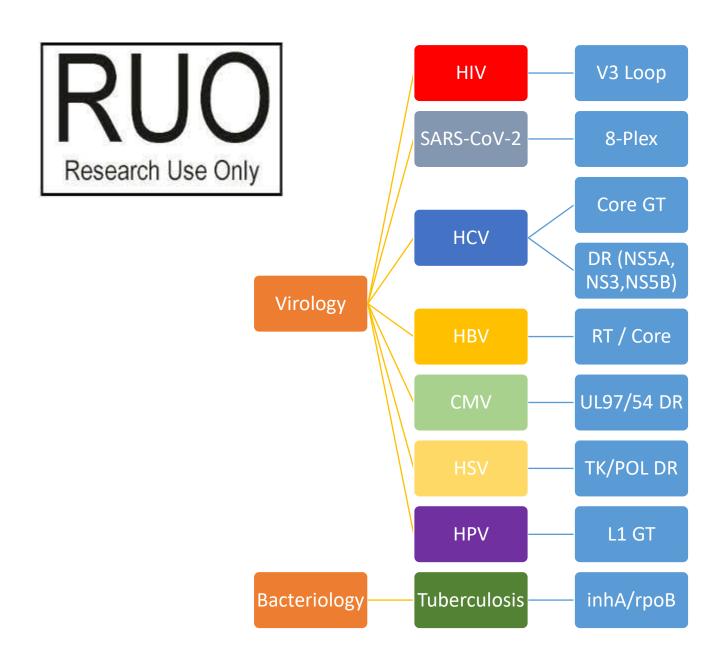








Research use applications





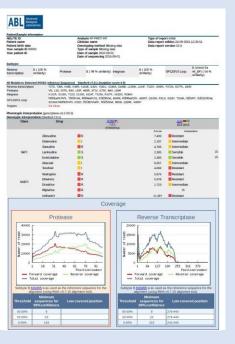
Examples of reports



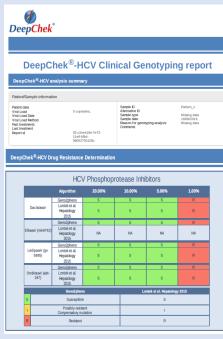
HBV

HCV

TB







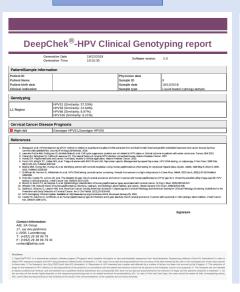


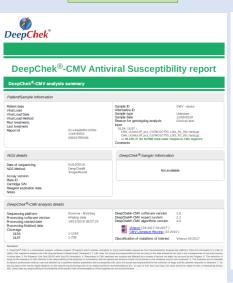
HPV

CMV

HSV

16s RNA







	Nicrobio Chek - 165 Taxonor	ny report
	Sample: F3D0	
	Sample: P300	
SUMMARY		
Sample informations		
ID	F3D0	
Date	2019/12/0	
Sequencing platform	Illumina M/Seq	
Type	ngs (16S)	
Amplification method	ABL 16S Kit (V3, V4)	
Analysis informations		
ID	Mothur-MSeq-SOP	
Date	22/10/2019	
Analysis type	Taxonomy on 16S Amplicon	
Taxonomy database	RefS eq 16S (v11-2018)	
Input files	F3D0_S188_L001_R1_001.fastq , F3D0_S188_L00	1_R2_001.fastq
Advanced options		
Quality filtering threshold	Q30	
Filtering metric	median	
Chimera removal method	consensus	
Noisy threshold	3	
Disclaimer		
TAXONOMY		
Overview		
Rank	Abundance	Absolute %
Unclassified	0	0.0%
Superkingdom	6.058 K	100.0%
Phylum	5.925 K	97.8%
Class	5.759 K	95,08%
Order	5.759 K	95.06%
Family	5.196 K	85.77%
Genus	4.65 K	76.76%
Species	3.945 K	65.12%

HIV Genotyping solutions

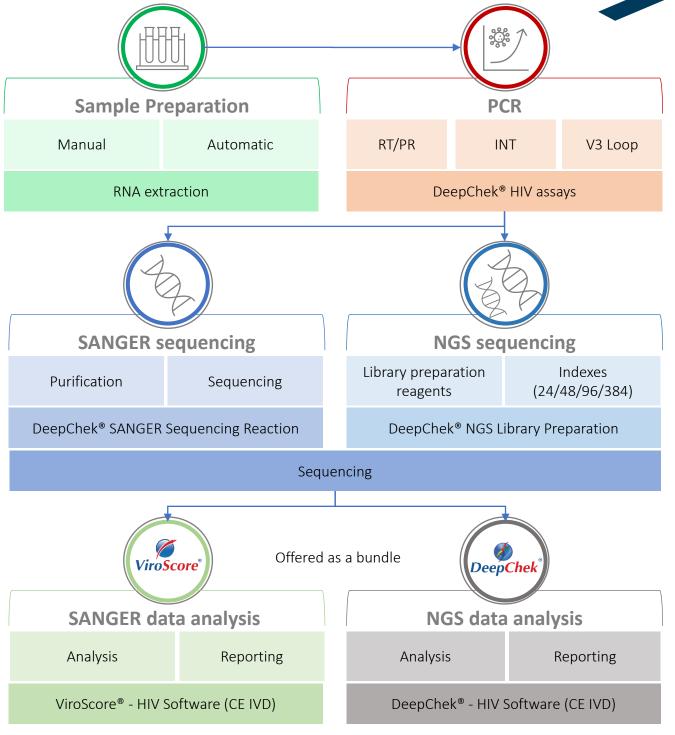


September 2021



DEEPCHEK®-HIV ASSAYS & SOFTWARE Workflow Overview







DEEPCHEK®- HIV ASSAYS Highlights



- LoD: 1000 copies/mL (down to ~50-100 copied/mL)
- High analytical reproducibility and repeatability were evidenced by Percent Agreement being 100%
- **Highly specific** –pure & CRF strains
- From sample to drug resistance in ~17 hours for SANGER & 3-4 daya for NGS for 24 96 samples

DeepChek® Assay	Downstream sequencing instrument used with DeepChek® Assay	Device 2 used for agreement concordance	Nb. of samples tested	Concordance (%)
PR/RT + INT	Illumina MiSeq	Abbott® Dx - ViroSeq® HIV- 1 Genotyping PR/RT + INT (Sanger)	23	100%
PR/RT + INT	Illumina MiSeq	Vela Dx - Sentosa® HIV-1 Genotyping PR/RT/INT (NGS)	18	100%



100% agreement with annual ANRS quality control programs



100% agreement with annual QCMD panel (RT+PR & INT) studies





DEEPCHEK®-HIV ASSAYS & SOFTWARE ABL Plan for IVDR





5 April New MDR and IVDR regulations were adopted, replacing existing directives.



26 May

IVD devices sold in the

EU must be certified

under new rules,

Implementation of

EUDAMED database



Any device or IVD put into service must have an MDR or IVDR certificate.

- Production of the IVD kits is already ISO 9001 certified
- Full design, development, production and support of IVD medical devices process is compliant with the ISO 13485:2016
- Since 2019, the Quality Management System (QMS) is developed to be meet the essential requirements of the new EU regulation for IVD medical devices (2017/746) for Class C and D products (highest classification)
- The Compliance team is coached and supported externally by a german group of experts in medical devices (reagents, instruments and software) to be ready for the certification
- Contacts with notified bodies to review and certify each IVD product according to the new EU regulation (ISO 13485 and technical file)
- ABL has a regulatory strategy for each product to be compliant with the new EU regulation, including the transition period



DEEPCHEK®-HIV ASSAYS & SOFTWARE Reporting

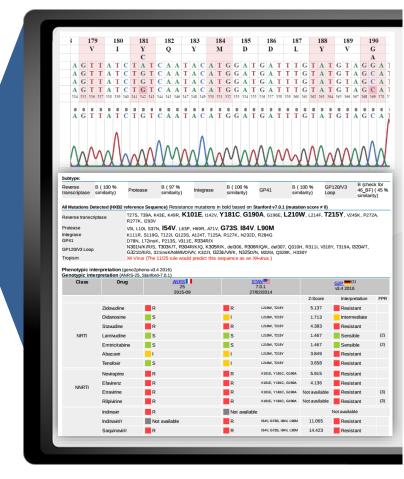


SANGER









NGS









Technology

- Web-based (browser) only)
- Software & database
- Local or Cloud (+HDS) hosting
- Unlimited user accounts
- Unlimited analyses

Security

- Data access restriction (pools, read-only mode...)
- Logging of user accesses
- Encrypted database
- Reports validation

Main features

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- Tropism
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Additional features

- Report customization
- Contamination check
- Quality control
- Export (reports, FASTA, XML...)
- Batch mode analysis
- Data mining

Services

- Constant updates
- Annual upgrades (versions)
- Historical data import
- LIMS integration
- HIS integration
- Support
- Trainings

A WEB-BASED SYSTEM







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SYSTEM AVAILABILITY



Cloud



Secured Healthcare environment (HDS)



Local Virtual Private Server



Local Hardware





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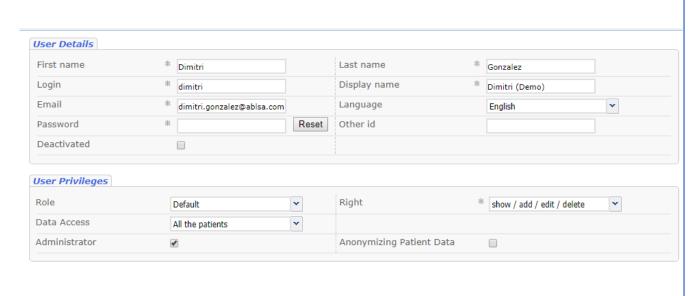
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SECURED DATA ACCESS

MULTI-SITE
COLLABORATIVE ACCESS
POSSIBLE







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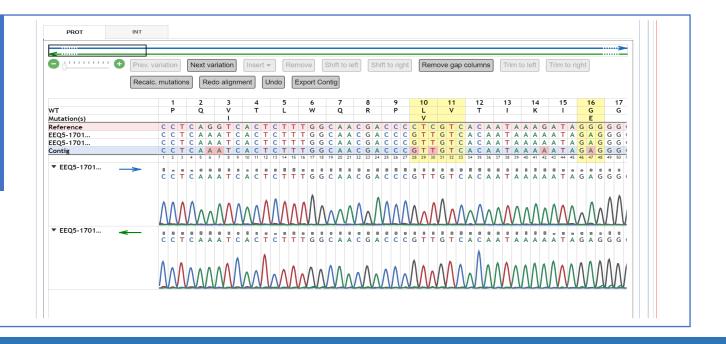
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EMBEDDED
CHROMATOGRAM
EDITOR







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SINGLE or CUMULATIVE GENOTYPING







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SUBTYPING

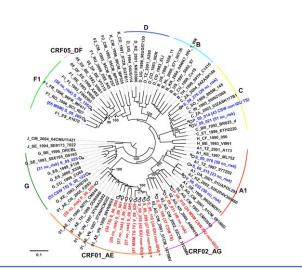
COMET

COMET HIV-1

(COntext-based Modeling for Expeditious Typing)



PHYLOGENETIC ANALYSIS







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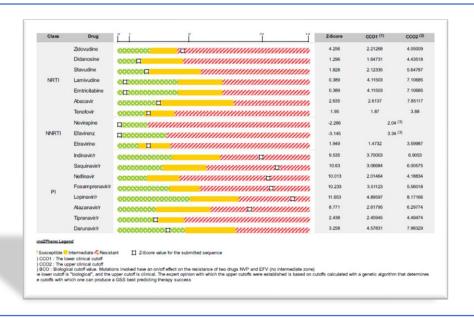
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VIRTUAL-PHENOTYPING







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DRUG RESISTANCE ASSESSMENT

HIVDB/STANFORD



HIV-GRADE





RENAGENO

RIS



REGA

ANRS



GENO2PHENO



$\mathbf{\circ}$	_ '	•	_	 . – .	•		

SANGER				
Drug		ANRS 31 12-2020		<u>STAN</u> ■ 9.0 9.0 03-2021
Zidovudine	R	D67N, L210W, T215Y, K219Q	R	D67N, L210W, T215Y, K219Q
Didanosine	Not available		R	D67N, T69D, L210W, T215Y, K219Q
Stavudine	Not available		R	D67N, T69D, L210W, T215Y, K219Q
Lamivudine	S		S	L210W, T215Y
Emtricitabine	S		S	L210W, T215Y
Abacavir	R	D67N, L210W, T215Y	<u> </u>	D67N, L210W, T215Y, K219Q
Tenofovir	R	E44D, D67N, T69D, L210W, T215Y	<u> </u>	D67N, L210W, T215Y, K219Q

NGS

	Algorithm	Sanger based sequencing	15.00%	10.00%	5.00%	3.00%
	ANRS	1	T.	1	l l	l l
Abacavir	Grade	1	1	1	T I	1
ADacavii	Rega institute	S	S	S	S	S
	Stanford	LLR	LLR	LLR	LLR	LLR
	ANRS	NA	NA	NA	NA	NA
Didanosine	Grade	1	1	1	I	1
Didanosne	Rega institute	S	S	S	S	S
	Stanford	LLR	LLR	LLR	LLR	LLR
	ANRS	R	R	R	R	R
Emtricitabine	Grade	R	R	R	R	R
	Rega institute	R	R	R	R	R
	Stanford	HLR	HLR	HLR	HLR	HLR





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GSS & REGIMEN RANKING

Recommendation	Combination Regimen	Algorithm	Sanger based sequencing	15.00% ↓	10.00%	5.00%	3.00%
		ANRS	1/3	1/3*	1/3*	1/3*	1/3*
l	Emtricitabine	Grade	0.5 / 3	0.5/3*	0.5 / 3 *	0.5 / 3 *	0.5 / 3 *
Al	Tenofovir	Rega institute	1/3	2/3	2/3	2/3	2/3
	Dolutegravir	Stanford↓	1/3	2/3	2/3	2/3	2/3
		ANRS	2/3	2/3	2/3	2/3	2/3
	Emtricitabine	Grade	1.5/3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3
Al	Tenofovir	Rega institute	2/3	2/3	2/3	2/3	2/3
	Atazanavir/r	Stanford↓	2/3	2/3	2/3	2/3	2/3
	Lamivudine Al Tenofovir	ANRS	2/3	2/3	2/3	2/3	2/3
I I		Grade	1.5/3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3
Al		Rega institute	2/3	2/3	2/3	2/3	2/3
Atazanavir/r	Atazanavii/r	Stanford↓	2/3	1/3	2/3	2/3	2/3





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TROPISM DETERMINATION

DeepChek® - HIV Co-receptor tropism

X4

X4 99.909363818714% 0.090636181285916%

Activity of CCR5 antagonist anticipated?

YES NO

R5 Virus uses CCR5 co-receptors to enter CD4+ cells

D/M Virus uses CCR5 and/or CXCR4 co-receptors to enter CD4+ cells

X4 Virus uses CXCR4 co-receptors to enter CD4+ cells





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REPORT VALIDATION



ViroScore[®]

Patient/Sample information ABL/TE ID

Patient name Patient birth date

Patient viral load Missing_data Your sample ID Test demo 2 Your patient ID

st demo 2 Date of san Date of sec

Type of sample Plasma
Date of sample 20/08/2020
Date of sequencing 21/08/2020

Analysis RT-PROT-INT

Clinician name Dr toto

Type of report Initial

Data report edition 06/07/2021,10:29:19
Data report version 12.4

Report label

Validated - (TeSuperAdmin 06/07/2021 10:30:09)

Subtype:

Reverse transcriptase B (98 % similarity)

otease B (79 % simila

Genotyping method DeepChek® SingleRound

Integrase B

B (100 % similarity)

All Mutations Detected (HXB2 reference Sequence) Resistance mutations in bold based on Stanford 9.0

Reverse transcriptase K20R, V35I, **E44D**, **D67N**, **T69D**, V90I, **V106I**, V118I, I135T, A158S, S162C, T165I, **Y181C**, **G190A**, **L210W**, **T215Y**, D218E, **K219Q**, L228H, V245E, E248D, P272A, R277K, T286A, A288T, I293V, E297R

V3I, L10V, V11L, I13V, K14R, I15V, K20T, V32I, L33F, E35D, M36I, S37N, R41K, I54L, Q58E, D60E, Q61E,

162V, L63P, A71V, G73N, **184V**, **L89V**, **L90M**

Integrase V31L, del33, del34, del35, del36, del37, V72I, G123S, A124T, T125V, R127K, N232D, L234I, D253E, D256E





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CONTAMINATION CHECK



Screening for similar strains



Region	Similar strains						
Reverse transcriptase	No significant homology d	No significant homology detected compared to the strains stored in the database.					
Protease	No significant homology detected compared to the strains stored in the database.						
	Sample ID	Sample date	Date performed	Identities			
	1	10/02/2021	04/03/2021 13:28:31	96.40%			
	2	26/09/2019	24/10/2019 10:56:31	96.15%			
	3	19/05/2021	07/06/2021 15:41:50	95.87%			
		26/03/2020	19/10/2020 13:24:58	95.76%			
	4	22/07/2020	16/10/2020 13:44:56	95.88%			
ntegrase	5	03/01/2020	27/01/2020 11:18:17	96.10%			
	6	08/02/2021	15/03/2021 11:17:11	96.24%			
	7	06/02/2020	03/03/2020 16:33:41	95.62%			
	8	27/05/2021	18/06/2021 11:56:32	95.76%			
	9	18/05/2021	07/06/2021 11:45:27	95.61%			
	10	14/04/2021	23/06/2021 10:56:38	95.23%			

Only the 10 first matches scored with an identity > 95% are displayed.





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Main features

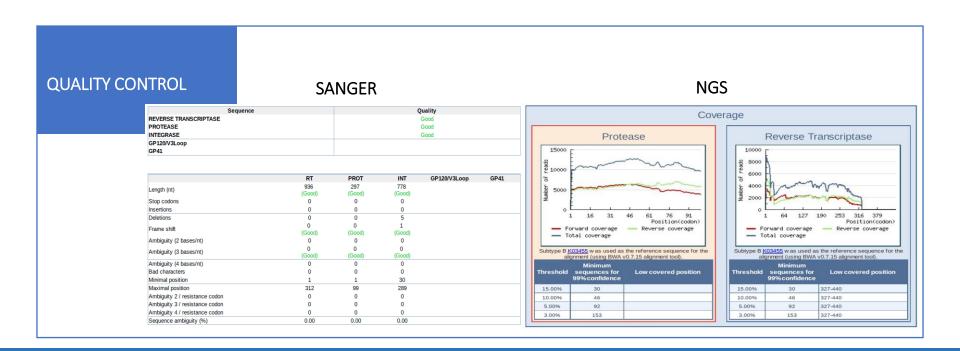
- SANGER data management (AB1, FASTA) with embedded chromatogram editor
- NGS data management (FASTQ) with dedicated pipeline
- Genotyping (per sample & cumulative)
- Subtyping
- Virtual-phenotyping
- Drug resistance through up-to-date guidelines
- GSS determination and regiment ranking
- •Tropism
- Reporting & labelling

Additional features

- Report customization
- Contamination check
- Quality control
- •Export (reports, FASTA, XML...)
- Batch mode analysis
- Data mining

Services

- Constant updates
- Annual upgrades (versions)
- Historical data import
- LIMS integration
- •HIS integration
- Support
- Trainings







Technology

- Web-based (browser only)
- Software & database
- Local or Cloud (+HDS) hosting
- Unlimited user accounts
- Unlimited analyses

Security

- Data access restriction (pools, read-only mode...)
- Logging of user accesses
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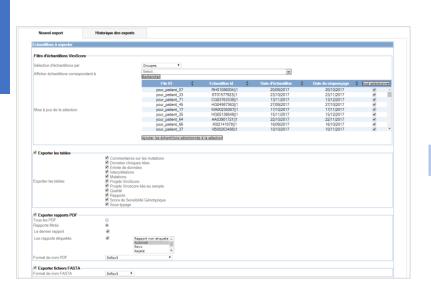
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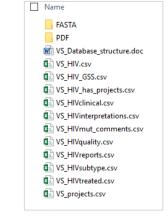
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DATA EXPORT











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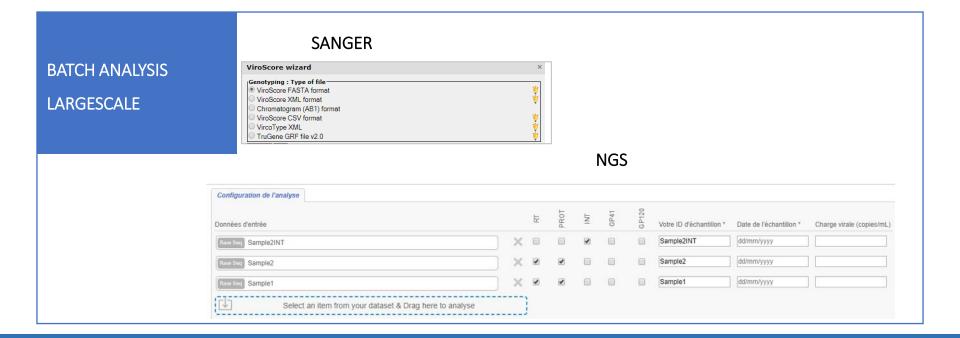
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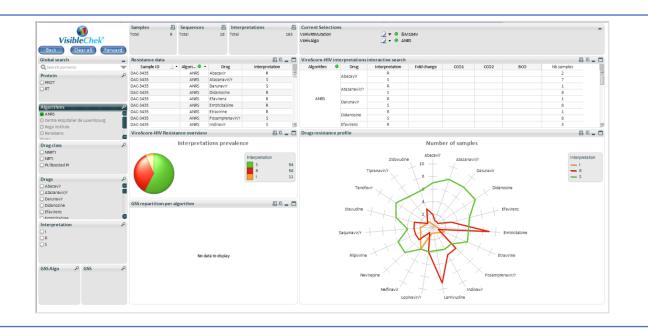
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DATA MINING







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Main features

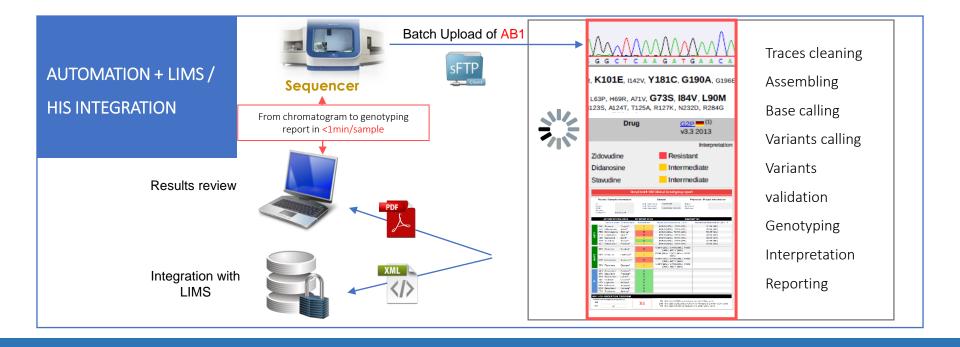
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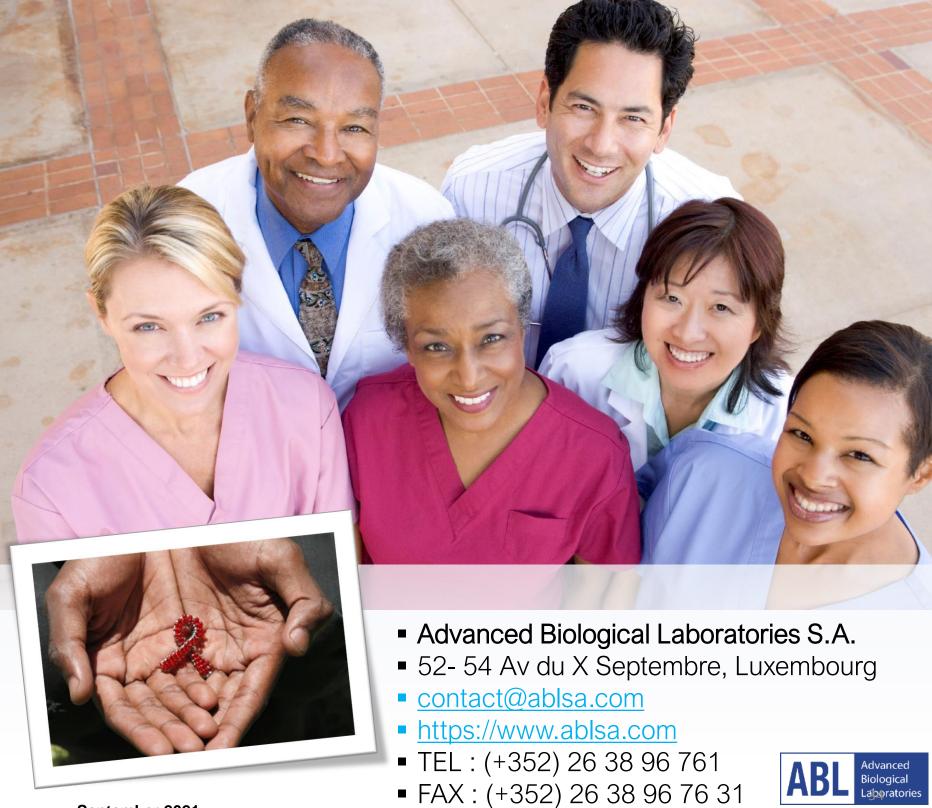
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CONTACT





http://www.ablsa.com

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