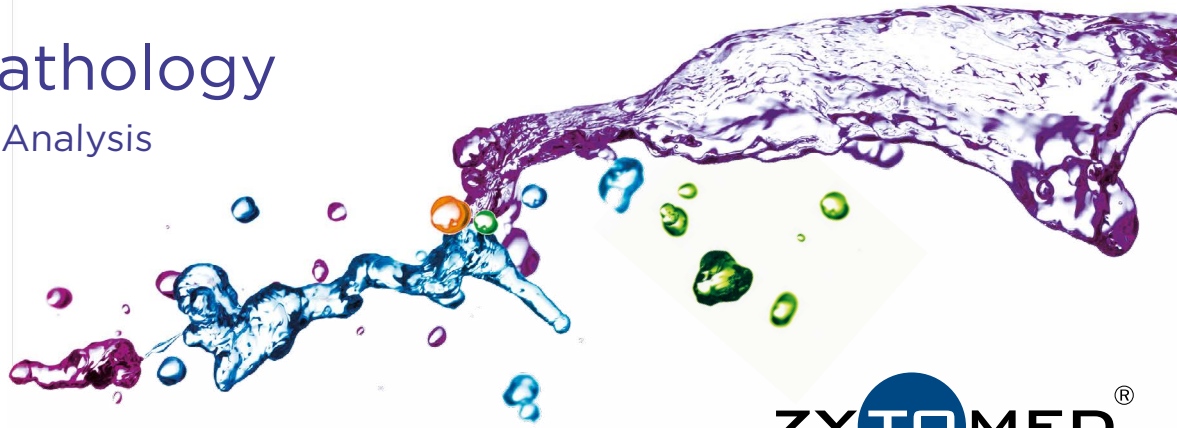


Molecular Pathology

ANDAS - NGS Data Analysis



ANDAS - NGS Data Analysis

Workstation and Analysis Software for AmoyDx® NGS Kits

For the analysis of sequencing data generated with AmoyDx® NGS kits, Zytomed Systems offers the AmoyDx® NGS Data Analysis System (ANDAS) from our partner company AmoyDx®. The ANDAS consists of a local workstation and a pre-installed CE/IVD-certified ANDAS analysis software. The software contains individual modules based

on several databases for the evaluation of different AmoyDx® NGS panels. The sequencing analysis results, which can be exported in the form of an Excel list, include all relevant quality parameters for the analysis and an evaluation of the variants together with links to the corresponding databases such as COSMIC and ClinVar. Furthermore, the variants are

listed with corresponding values for depth, allele frequency and a classification (e.g., *hotspot*, *polymorphism*, *synonymous*). Variants with a low allele frequency are displayed in a separate table sheet. The analysis of sequencing data is thus fast, simple, and reliable.

Workflow

Log in
via the browser-based
user interface



Upload
of sequencing data,
FastQ generation



Analysis
with a panel-specific
software module



Data export
in Excel format



Sequencing Date	Project ID	Sequencer	Sequencing No.	Sample Quantity	Reads	Cluster Density	P/N	Y/N	Mean Quality	GC%	Sample Sheet	Sequencing Status	FLAG Status	QC Status	Operations
2022-07-04	AA0201007	MNO12	002	6	161-010-161	162.66	66.46	3276	38.12	66.61	Updated	Finished	Finished	Finished	

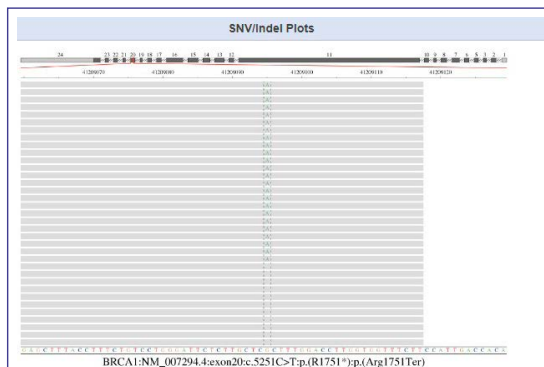
Analysis Information

Basic Information

Analysis Module:	ADXXIS-BRCA	Analysis Version:	V1.2.0
Start Date:	2022-09-21	Operator:	Admin
Analysis Params:	AAAnalyt000	Sample Quantity:	6
Project:	DCL001	Status:	Finished
Progress:	100.00%	Remaining Time:	0:00
Description:	BRCAProTest1	Operation:	OBAC
Log:		Analysis Report:	

Data Statistics

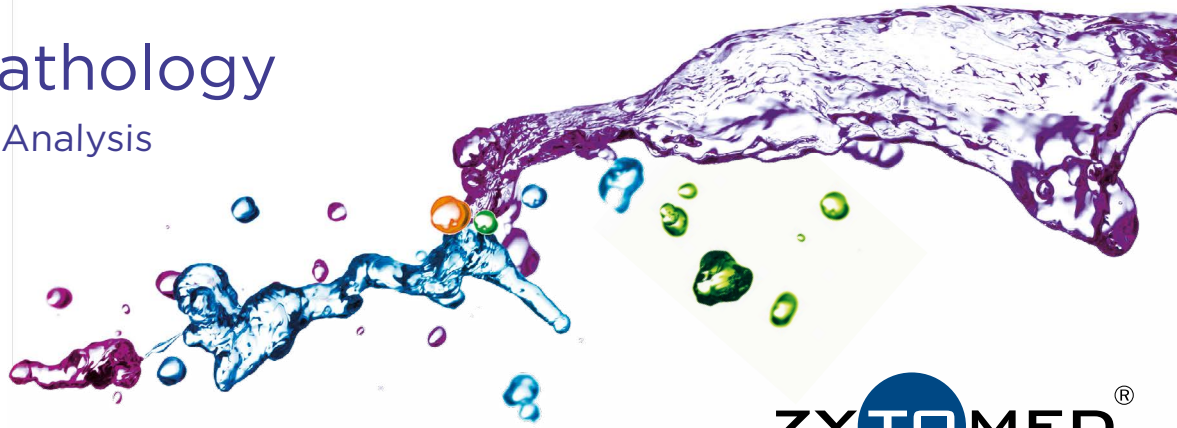
Sample Library/FlowCell/Lane	Production	TotalReads	QC	Q30	Q30+	Alignment	cleanMatch	misMap	effectiveDepth	medianDepth	rawDepth	Coverage	Uniformity	CV	Significance
BRCA1-NM_007294.4:exon20:c.5251C>T:p.(R1751*)_hp.(Arg1751Ter)	362-400	2895518	37.42%	66.54%	67.28%	66.68%	66.43%	308	1326	136	9448	100.00%	100.00%	0.16	3
BRCA1-NM_007294.4:exon20:c.5251C>T:p.(R1751*)_hp.(Arg1751Ter)	365-410	2797518	37.05%	67.56%	68.05%	66.67%	66.43%	210	1330	146	9727	100.00%	100.00%	0.16	6
BRCA1-NM_007294.4:exon20:c.5251C>T:p.(R1751*)_hp.(Arg1751Ter)	367-370	2946024	38.75%	67.67%	68.68%	66.17%	64.27%	52	351	337	9448	100.00%	61.05%	0.76	6



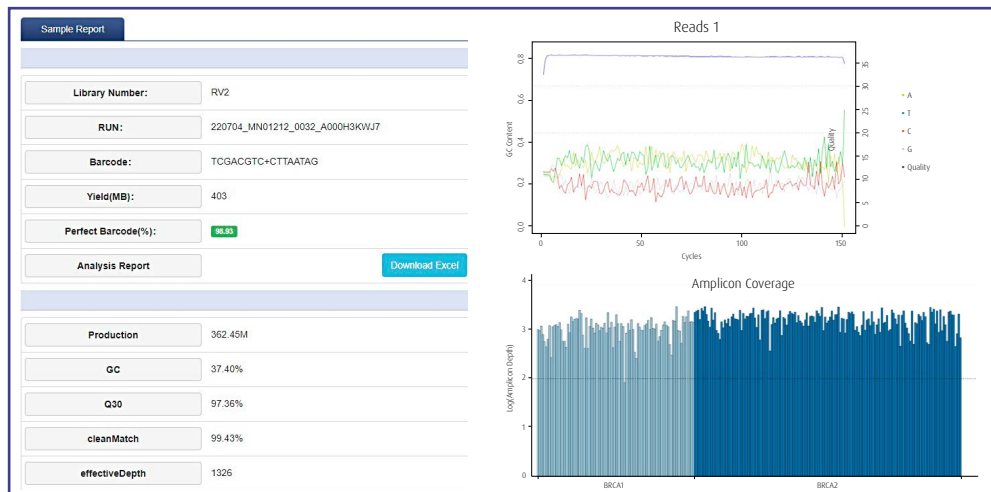
	A	B
1	Item	Value
2	Production	3.19G
3	TotalReads	28.265.774
4	GC	42.41%
5	Q20	98.27%
6	Q30	97.32%
7	Alignment	97.63%
8	cleanMatch	96.31%
9	Coverage	99.89%
10	BRCA_effectiveDepth	14933
11	BRCA_mediumDepth	1407
12	BRCA_rawDepth	6913
13	BRCA_Uniformity	98.82%
14	BRCA_CV	0.43
15	Significance	5
16	SNP_effectiveDepth	136
17	SNP_mediumDepth	114
18	SNP_rawDepth	478
19	SNP_Uniformity	93.12%
20	SNP_CV	0.76
21	cellularity	0.28
22	ploidy	3.30
23	GScore	99.5

Molecular Pathology

ANDAS - NGS Data Analysis



▶ Run Information for Every Sample - Important Quality Parameters at a Glance



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▶ Advantages of the ANDAS System

- ▶ In simple steps from raw sequencing data to clinical information
- ▶ Clear display of important quality parameters such as Q30 (%), PF (%), PerfectBarcode (%) for every sample
- ▶ Local workstation as a secure solution for data processing
- ▶ Regular updates of the databases used

▶ Selected Specifications of the ANDAS System

Workstation	
Computer type	Dell OEM Ready PowerEdge Server
Operating system	Linux (CentOS)
RAM	4 x 32 GB RDIMM
Hard disk configuration	8 x 8 TB Hot-plug Hard Drive*
Available storage space	24 TB*
External interfaces	2 x Ethernet: LAN Gb1 (DHCP-Server); LAN Gb2 (DHCP-Client/Static)
Dimensions (W x D x H)	200 x 680 x 459 mm
Power supply	230 V, 50 Hz; Dual Hot-plug Redundant Power Supply, 1100 W
Software	
ANDAS analysis software with modules for different kits, display of quality parameters for sequencing and analysis results, module-specific data export in various formats such as VCF, BAM/BAI and Excel file possible.	



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* Subject to change

▶ Product Information AmoyDx® ANDAS System

Description	Status	Order no.
ANDAS (AmoyDx® NGS Data Analysis System) Package consisting of server (Dell OEM Ready PowerEdge Server with Linux CentOS operating system) and pre-installed ANDAS analysis software.	CE/IVD	ANDAS-1