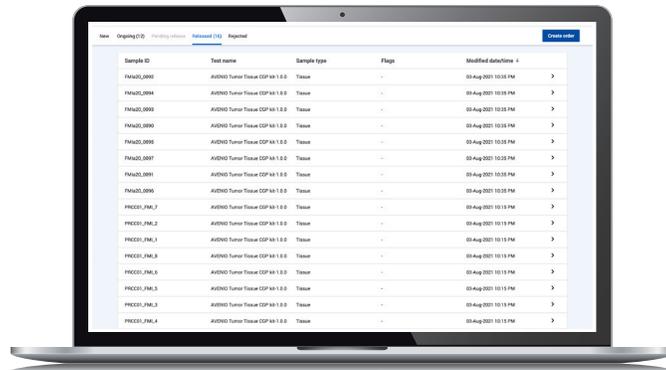


# FoundationONE® Analysis Platform + AVENIO Connect Software

Secondary analysis and workflow manager software



## Evidence-driven variant calling knowledgebase

- Built on insights from FMI's experience in profiling over 500,000+ samples.
- Continuously evolving based on evidence compiled by a multidisciplinary team of cancer biologists from scientific publications, conferences, and online databases (COSMIC, dbSNP, gnomAD, 1000 Genomes).



## Cloud-based computing for efficient analysis

- Converts uploaded BCL files to FASTQ, demultiplexes reads, and downsamples.\*
- Enables regular updates to minimize downtime and manual intervention.
- Allows for seamless hardware integration.



## Broad genomic coverage

- Identifies all four types of genetic variants including Single Nucleotide Variants, InDels, Copy Number Alterations, and Rearrangements.
- Calculates genomic signatures such as TMB, MSI, and LOH.
- Variant calls in all captured regions, not limited to pre-defined set of hotspots.



## Confidence in high-quality results

- QC metrics, including median coverage and potential contamination, used to assess data quality.

For Research Use Only. Not for use in diagnostic procedures.

\* BCL files are the raw data files generated by the Illumina sequencers. FASTQ format is a text-based format for storing both a biological sequence and its corresponding quality scores.

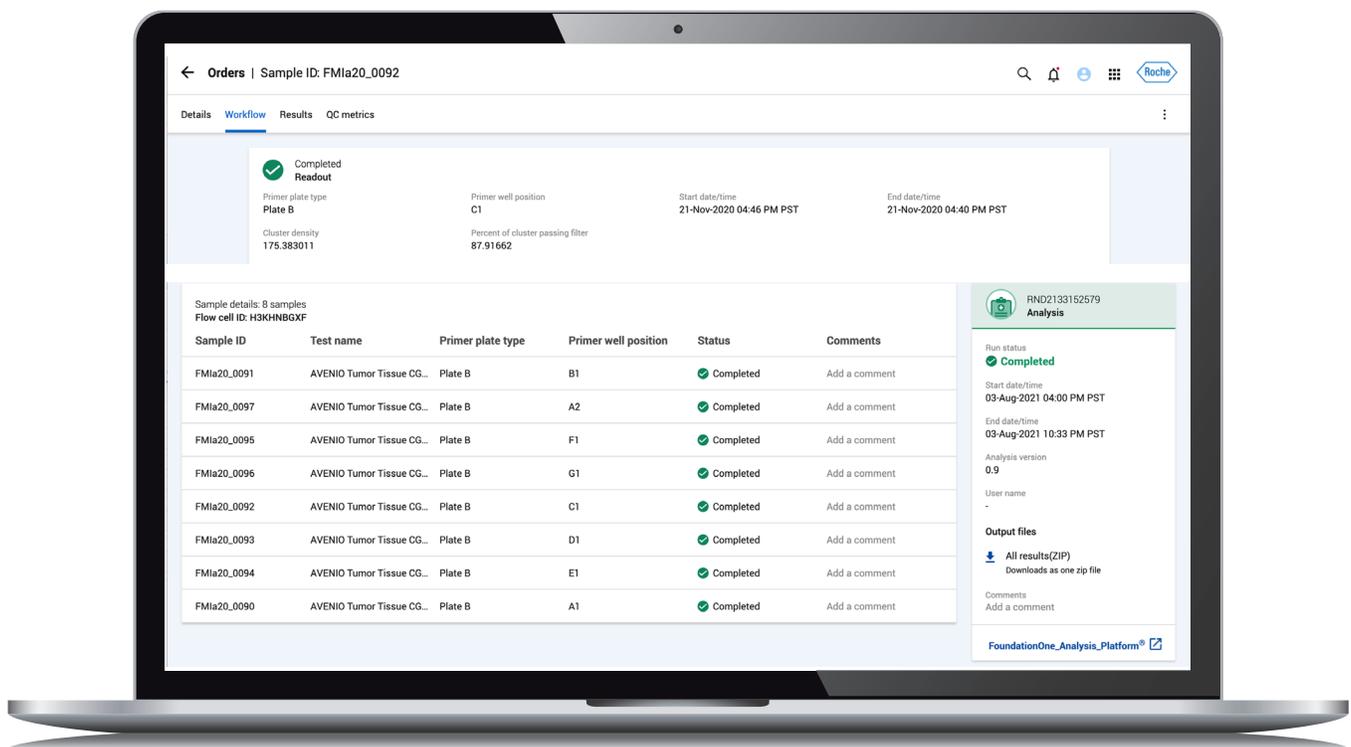
TMB, tumor mutational burden. MSI, Microsatellite instability. LOH, loss of heterozygosity. QC, quality control.

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## Gain access to clear information and results

### Web application for download of analysis output files

- VCF (SNVs and InDels)
- JSON (CNAs, rearrangements, TMB, MSI, and LOH)
- CSV (QC metrics & variants combined)
- BAM (alignment file)



For Research Use Only. Not for use in diagnostic procedures.

SNV, single nucleotide variant. InDel, Insertion and deletion. CNA, copy number alteration. TMB, tumor mutational burden. MSI, Microsatellite instability. LOH, Loss of heterozygosity. QC, Quality control.

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For more information on FoundationONE® Analysis Platform and AVENIO Connect Software please reach out to your local Roche representative.

Signature Page for MC--08331 v2.0

Legal Approval	Emily Wilson Legal 02-May-2022 13:49:17 GMT+0000
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Regulatory Approval	Jessica Betts Regulatory 03-May-2022 18:25:50 GMT+0000
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Medical Approval	Carlo Messina Medical 04-May-2022 09:22:27 GMT+0000
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Other Approval	Ashla Singh Business 05-May-2022 19:39:55 GMT+0000
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