

Caris Molecular Profiling Enabling the Delivery of Precision Medicine

Ben Doron, PhD Director, Molecular Science Liaisons



Meet your local MSL Team

- **Ben Doron, PhD** is the MSL director for the West Region and is located in Portland, OR.
- He received his PhD in Molecular Biology from Oregon Health and Sciences University in 2018. His dissertation work involved understanding how Acute Myeloid Leukemia reprograms the bone marrow into a pro-leukemic niche.
- He then did a post doc at the Fred Hutchinson Cancer Research Center where he studied epigenetic mechanisms of pathogenesis in Pancreatic Adenocarcinoma.

- **Omkara Veeranki, DVM, PhD** is the local MSL for the Seattle and Puget Sound Area.
- She received her PhD in Cancer Pathology and Prevention at Roswell Park Comprehensive Cancer Center. Her dissertation was focused on assessing Sulforaphane as a chemopreventive agent in Bladder Cancer and developing biomarkers for clinical trials.
- She then moved to Houston for a postdoc at MD Anderson Cancer Center. Here her research was focused on identifying the impact of tumor mutation burden on immune microenvironment of esophagogastric adenocarcinomas.





CURES START HERE







Making Cancer History®









Radiation

• High-energy particles damage or destroy cancer cells

Chemotherapy

- Chemicals attack cancer Surgery
- Operate on part of the body to diagnose or treat cancer

Genetics

- Gene sequencing
- Locate cancer causing genes

Immunotherapy

- Identify ways to customize treatment
- Find ways to tum immune system on
- Personalize treatment with immune-activating drugs

Targeted Therapies

- Drugs turn specific genes on or off
- + Traditional therapies



Caris Molecular Profiling

✓ Unmatched Experience Across DNA, RNA and Proteins

- 3,933,000+ tests completed
- 313,000+ clinical cases performed
- Staff: bioinformaticians, oncologists, molecular geneticists, pathologists and PhD scientists

✓ Immunotherapy Dx Expertise

- PD-L1
- Microsatellite Instability (MSI)
- Mismatch Repair (MMR)
- Tumor Mutational Burden (TMB)

✓ Rigorous Quality Standards

- CAP, CLIA, NYSDOH, ISO15189 accredited
- 66,000 square-foot central laboratory
- 38,000 square-foot R&D facility

✓ Limited Tissue Testing Capabilities

- Tumor enrichment via microdissection
- Multiple reflex options to alternative technologies/methods

✓ Rapid Turnaround Time

- 10-14 calendar days (8 days in NSCLC)
- 11 days is the most frequent turnaround time reported in 2021 YTD

Collaborations: ASCO TAPUR Targeted Agent and Profiling Utilization Registry Study **NATIONAL CANCER INSTITUTE** NCI-MATCH CLINICAL TRIAL **FRIENDS** of CANCER RESEARCH GBM iolangiocarcinoma Innovative Learning Environment **PMC** PERSONALIZED MEDICINE COALITION





Caris Molecular Intelligence[®] – MI Profile[™]





Companion Dxs & NCCN-Guidelines[®] Require a Multi-Technology Approach

















Patient and Specimen Information

Results with Therapy Associations

Contains drug associations ranked by level of evidence: Level 1 = Biomarker noted in FDA indication Level 2 = endorsed by clinical guidelines Level 3A = evidence exists in patients tumor type Level 3B = evidence exists in another tumor type

Important Note

contains significant information about ... drug/biomarker associations and comments from Caris pathologists and/or molecular geneticists, if applicable.

Constantly updating based on:

- FDA approvals
- Industry guidelines
- Literature
- **Physician** feedback



*Biomarker reporting classification: Level 1 - highest level of clinical evidence and/or biomarker association included on the drug label; Level 2 - strong evidence of clinical significance and is endorsed by standard clinical guidelines; Level 3 - potential clinical significance (3A - evidence exists in patient's tumor type, 3B - evidence exists in another tumor type).

Important Note

1p19q co-deletion is strongly associated with oligodendroglial histology and helps confirm the oligodendroglial character of tumors with equivocal or mixed histologic features.

A pathogenic mutation in the TERT promoter region was detected in this sample). The assessment of TERT promoter mutations with other common genetic alterations can refine the molecular classification of glioma subtypes, eg., 1p19q co-digletion with a TERT promoter mutation is characteristic of oligodendoogliomas. Regarding prognosis, the presence of a TERT promoter mutation in the absence of Am DH mutation in infiltrative gliomas is associated with reduced overall survival compared to other molecular subtypes. For Gade H4I tumors with concecuring (JAVTERT promoter mutations, prognosis is improved, however, this is less clear for Grade V tumors INCOR Guidelines Central Nervous System Cancers (ExlePs) (Section 4.1. Molecular Subtypes). The Methology of the Section 4.1. The Section 4.1. Term of the Method Section 4.1. Secti

Cancer-Type Relevant Biomarkers

			Result	Biomarker			
cic	Seq	DNA-Tumor	Pathogenic Variant Exon 3 p.S146fs	Tumor Mutational Burden	Seq	DNA-Tumor	Low, 5 mut/Mb
IDH1	Seq	DNA-Tumor	Pathogenic Variant	ATRX	Seq	DNA-Tumor	Mutation Not Detecte
			Exon4 p.K152H	BRAF	Seq	DNA-Tumor	Mutation Not Detecte
TERT promoter	Seq	DNA-Tumor	Pathogenic Variant c146C>T	EGFR	CNA-Seq	DNA-Tumor	Amplification Not
MSI 🚫	Seq	DNA-Tumor	Stable				bettettet
Mismatch Repair Status	IHC	Protein	Proficient	EGFRvIII	Seq	RNA-Tumor	Variant Transcript Not Detected
NTRK1/2/3	Seq	RNA-Tumor	Fusion Not Detected				

(continued on next page

The selection of any, all, or none of the matched therapies resides solely with the discretion of the treating physician. Decisions on patient care and treatment must be based on the independent medical judgment of the treating physician, taking into consideration all available information concerning the patient's condition, the FDA prescribing information for any therapeutic, and in accordance with the applicable standard of care. Whether or not a particular patient will benefit from a selected therapy is based on many factors and can vary significantly. All trademarks and registred trademarks are the property of their respective owners.

4610 South 44th Place, Suite 100 • Phoenix, AZ 85040 • (888) 979-8669 • Fax: (866) 479-4925 CLIA 03D1019490 • CAP 7195577 • ISO 15189:2012 • Matthew Oberley, MD, PhD, Medical Director • ©2021 Carls Life Sciences. All rights reserved.

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Biomarker Levels

indicates the strength of evidence as defined by the FDA tiered biomarker reporting classification. **Replaces the on/off NCCN compendium function**

Therapies with Potential Benefit are noted in green.

Therapies with Potential Lack of Benefit are noted in red.

Cancer Type Relevant Biomarkers

Pre-defined biomarkers whose results will show regardless of presence or absence of an alteration.

If biomarker result is in the high impact section, it will not repeat in this section





Microdissection – Enhancing Patient Care

Tumor enrichment of the specimen is performed by tissue microdissection:

- Slides are examined and areas containing tumor cells are circled. PATHOLOGY DIRECTED MICROTOMY
- A Pathology Assistant extracts the tumor tissue from the marked areas.
- Critically important for limited tissue cases and low density tumors



Tumor is 10% of Total Tissue

Enriched for Tumor Tissue

Microdissection isolates specific tumor cells for testing and reduces non-cancer material diluting the tissue section.



The Importance of RNA Sequencing

Fusion genes are an emerging class of highly important targets for cancer diagnosis and treatment.

- Clinical Setting: High quality clinical care requires screening for RNA fusions, which are rare but with efficacy in the 70%+ range
- Biopharma Setting: Compelling need to find responsive patients for both clinical trials and commercial purposes

NTRK Gene Fusions Across Various Cancers



Other Gene Fusions: RET, FGFR, ALK, ROS1, RSPO3...

Memorial Sloan Kettering Cancer Center.

(Benayed, et. Al)



NCCN NCCN Nctwork* Mounting evidence of higher fusion detection through RNA-based analysis over DNA-based analysis.

RNA-based analysis identifies more fusions than DNA-based analysis

-- Study based on MSK-IMPACT (DNA) and MSK-Fusion (RNA) (April 2019)

Direct comparison between DNA and RNA shows RNA is the superior method for fusion analysis

-- Caris internal data based on 10x the size of the of Benayed, et. al study

NCCN Guidelines (i) recommend RNA-based NGS for patients with no identifiable driver oncogenes to maximize detection of fusion events; and (ii) state that RNA-based NGS may be considered to assess for fusions as DNA-based NGS may not detect some NTRK1 and NTRK3 fusions

-- NCCN updated guidelines for NSCLC (May 2020)



RNA Fusion Analysis Finds 50% More Actionable NTRK3 Partners than DNA





Complex State of PD-L1 Testing: Caris Uses the Right Assay for the Right Patient

PD-L1 antibody IO Therapy	SP142 (Ventana) atezoluzumab (Roche)	22c3 (Dako) pembrolizumab (Merck)	28-8 (Dako) nivolumab & ipilimumab (BMS)	22c3 cemiplimab (Regeneron)
Non-small cell lung cancer (NSCLC)	Companion TC ≥50% or IC ≥10%	Companion TPS ≥1	Companion Tumor cell ≥1%	TPS > 50%
Bladder Cancer	Companion IC ≥5%	Companion CPS ≥10		
Head and neck squamous cell carcinoma (HNSCC)	-	Companion CPS ≥1		
Gastric and Gastroesophageal Junction (GE/GEJ)	-	Companion CPS ≥1	-	
Ovarian		Consensus* CPS>=1		
Esophageal (SCC)	-	Companion CPS ≥10	-	
Cervical Cancer	-	Companion CPS ≥1	-	
Breast (association only in TNBC)	Companion IC ≥1%	Companion CPS ≥10	-	
Vulvar Cancer (SCC)	-	NCCN-recommended CPS ≥1	-	

Lab Developed Test (LDT) SP142 in the following tumor types with no drug association: melanoma, uveal melanoma, Merkel cell carcinoma, HCC, GBM/LGG, kidney, colorectal, uterine, GIST, pancreatic, prostate, salivary gland, soft tissue sarcomas LDT SP142 with rules (pembro/nivo): CUP, thyroid, all other

* Recommendations based off Caris POA Tumor working groups



Industry Leading Offerings With A Deep Pipeline

2019 Commercial Launches	2020 Commercial L	aunches & Pipeline		Future Pipelir	ne
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					SZUZI Carls Lite Sciences 13



Caris MAI[™] – Molecular Artificial Intelligence



Caris MAI[™] Powered by DEAN (Caris <u>De</u>liberation <u>Analytics</u> Engine)







MI GPSai[™]– Machine Learning Applied to 55,780 Profiles



Genomic Prevalence Score analyzes a tumor's molecular signature and provides the prevalence of that signature in the Caris genomic (DNA) and transcriptomic (RNA) database across 21 cancer categories. Intended for Cancer of unknown primary (CUP) and atypical clinical presentation or cases with clinical ambiguity.

Brain	Gastroesophageal Carcinoma
Breast Carcinoma	Lung Carcinoma
Liver Hepatocellular Carcinoma	Colon Carcinoma
Urothelial Carcinoma	Pancreas Carcinoma
Prostate adenocarcinoma	Kidney Renal Cell Carcinoma
Melanoma	Cervical Carcinoma
Meningioma	Ovary Granulosa Cell Tumor
GIST	Ovary, Fallopian Tube Carcinoma
Thyroid Carcinoma	Endometrial Carcinoma
Squamous Cell Carcinoma	Uterus Sarcoma
Cholangiocarcinoma	

Overall performance metrics of assay on an independent test set of 15,473 cases

Sensitivity	Specificity	PPV	NPV	Accuracy	Call Rate
90.0%	98.0%	90.1%	98.6%	97.3%	97.5%

Robust on Biopsy Location and and Tumor Percentage

	Sensitivity	Specificity	PPV	NPV	Accuracy	Call Rate
Primary	91%	98%	91%	99%	98%	97%
Metastatic	89%	98%	89%	98%	97%	98%
20-50% Tumor	90%	98%	91%	98%	97%	97%
>50% Tumor	90%	98%	91%	98%	97%	97%

Abraham et al. J Clin Oncol 37, 2019 (suppl; abstr 3083)



MI GPSai[™] Results

- Reports a prevalence score based off both genomic (DNA) and now transcriptomic (RNA) profiling data.
- Includes 21 cancer categories based off of histologic subtypes.
- Can be added to most solid tumor orders at the oncologist's discretion. Intent is for the test to only be requested for CUP and cases with atypical clinical presentation or clinical ambiguity.
- Must be requested by selecting the appropriate box on the requisition.





MI FOLFIRSTai[™] Intended Use Statement

MI FOLFIRSTai[™] is the first clinically validated, AI-powered molecular predictor of chemotherapy efficacy for mCRC patients. MI FOLFIRSTai is intended to gauge a mCRC patient's likelihood of benefit from first-line FOLFOX (plus bevacizumab) treatment followed by FOLFIRI, versus FOLFIRI followed by FOLFOX (plus bevacizumab) treatment.







MI FOLFIRSTai[™]: 1st Clinically Validated AI-Driven Frontline Chemotherapy Predictor

Median Overall	MI FOLFIRSTai [™] Indicates:			
Survival	FOLFOX+BV 1 st → FOLFIRI+BV 2 nd (FOLFOX/BV RWE cohort)	FOLFIRI+BV 1 st → FOLFOX+BV 2 nd (FOLFIRI/BV RWE cohort)		
OS When Patient Received:	42.0	18.7		
FOLFOX+BV 1 st → FOLFIRI+BV 2 nd	months	months		
OS When Patient Received:	24.5	34.4		
FOLFIRI+BV 1 st → FOLFOX+BV 2 nd	months	months		

1. Abraham JP, Magee D, Cremolini C, Antoniotti C, Halbert DD, Xiu J, Stafford P, Berry DA, Oberley MJ, Shields AF, Marshall JL, Salem ME, Falcone A, Grothey A, Hall MJ, Venook AP, Lenz HJ, Helmstetter A, Korn WM, Spetzler DB. Clinical validation of a machine-learning derived signature predictive of outcomes from first-line oxaliplatin-based chemotherapy in advanced colorectal cancer. Clin Cancer Res. 2020 Dec 8:clincanres.3286.2020. doi: 10.1158/1078-0432.CCR-20-3286. Epub ahead of print. PMID: 33293373

mCRC RWE FOLFOX+BV-FOLFIRI+BV



mCRC RWE FOLFIRI+BV-FOLFOX+BV





Leading Through Artificial Intelligence



The Largest Oncology Focused Clinico-Genomic Database

- 313,000+ Molecular Profiles
- 244,000+ Patients with longitudinal clinical outcome data
- 1,000,000+ data points per patient





Molecular Science Liaisons (MSL) – Local Scientific Support

PhDs, PharmDs or MDs with advanced oncology experience:

- Tumor Biology
- Molecular Diagnostic Techniques/Technologies
- Biomarker/Therapy Implications
- NCCN Guidelines for Biomarker Testing
- Clinical Trials

MSLs provide a wide range of support:

- **Educational:** supporting training and continuing molecular education of fellows, oncologists and others on the healthcare team
- Technical: explaining the capabilities of Caris NGS-based clinical offering
- **Clinical:** providing evidence to support the clinical utility of molecular profiling, including case consults, Molecular Tumor Board support, etc.
- **Research**: assessing research feasibility utilizing Caris' real world data, supporting the development of research proposals, and supporting the integration of Caris testing into investigator initiated trials

Caris has 40+ MSLs across the country providing local scientific and medical support.





MultiOmic Report

Cancer Type Relevant Genes

Certain genes were selected by their importance in Soft Tissue Tumors (ref per cancer). Each gene's expression is listed for the patient, along with that gene's percentile in Caris' cohort of Soft Tissue Tumors patients. Genes with expression between the 20th and 80th percentile are conservatively expressed within the variability of natural expression in cancer cells. Genes with expression above the 80th or below the 20th percentile may be considered an unusual outlier.

Gene	Transcript Per Million	Percentile in Cancer Type
NTRK3	486.337000	99.5%
CD274	3.895940	38.0%
NTRK1	0.277485	18.5%
TERT	0.029209	14.5%
NTRK2	0.279247	11.0%

Tumor Immmune Cell Content

Cell type	Percentage in Sample	Percentile in Cancer Type
"B cell"	9.4%	88.0%
"Macrophage M1"	0.0%	0.0%
"Macrophage M2"	6.3%	61.5%
"Monocyte"	0.1%	0.0%
"Neutrophil"	0.0%	0.0%
"NK cell"	3.1%	51.0%
"T cell CD4+ (non-regulatory)"	0.0%	0.0%
"T cell CD8+"	0.1%	62.0%
"T cell regulatory (Tregs)"	0.7%	33.0%
"Myeloid dendritic cell"	4.8%	82.0%
"uncharacterized cell"	75.6%	80.5%

Human Leukocyte Antigen

The genotype representing MHC Class I (HLA-A, B, C) or Class II (DPA1, DPB1, DQA1, DOB1, DRB1) are listed per patient, along with the expression and percentile for each gene. HLA molecules present neoantigens.

Gene	HLA Type by WTS	HLA Type by WES
HLA-A	A*24:02:01,A*02:01:01	A*02:01:126,A*24:419
HLA-B	B*39:01:01,B*35:01:01	B*39:136,B*58:01:17
HLA-C	C*07:02:01, C*04:01:01	C*04:01:88, C*07:02:01
HLA-DPA1	DPA1*01:03:01	DPA1*01:03:01
HLA-DPB1	DPB1*04:01:01,DPB1*04:02:01	DPB1*677:01,DPB1*701:01
HLA-DQA1	DQA1*04:01:01	DQA1*04:01:01
HLA-DQB1	QNS	DQB1*04:02:01,DQB1*03:96
HLA-DRB1	DRB1*08:02:01	DRB1*08:02:01, DRB1*16:04:01

Homologous Recombination Deficiency

Marker	Score	Percentile in Cancer Type
LOH	28	96.0%
TAI	31	97.0%
LST	15	76.0%
HRD	74	96.0%

Loss of Heterozygosity in Cancer Type Relevant Genes

Copy number variation (CNV) include net gain or loss from parts of a chromosome. We measure gene-level copy variation. Results can range from complete deletion of both wild-type alleles of a gene (or) to gain at both alleles (i.e. 2:3). Some CNV changes can impact mRNA expression, however not all genes exhibit a linear relationship between gene dosage and transcript changes. The table below illustrates the different combinations that can appear.

Gene	Total_Copy	Сору_А	Сору_В	LoHcall
EPHA2	3.0	3.0	0.0	Copy Gain LoH
BRCA1	1.0	1.0	0.0	Copy Loss LoH
ERBB2	1.0	1.0	0.0	Copy Loss LoH
TP53	1.0	1.0	0.0	Copy Loss LoH
AKT1	1.0	1.0	0.0	Copy Loss LoH
RB1	1.0	1.0	0.0	Copy Loss LoH
BRCA2	1.0	1.0	0.0	Copy Loss LoH
GATA3	1.0	1.0	0.0	Copy Loss LoH

KEGG Cancer-Type Relevant Pathways









Clinical Trials Connector[™]

Molecularly Targeted Clinical Trials Matching Service

- Examines thousands of open and enrolling clinical trials
- Synced with ClinicalTrials.gov and other sources
- Matches clinical trials based on:
 - Gender
 - Age (date-of-birth)
 - Tumor type
 - Biomarker profile
- Includes interactive and customizable trial search filters by:
 - Biomarker
 - Therapeutic regimen
 - Phase of study
 - Study location(s)
 - Study sponsor

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*Clinical Trials Connector[™] is not a guarantee of enrollment.



Private Payor Relationships





Caris Support: Patient Responsibility & Assistance Programs

- Limited patient exposure across all payors, including Medicare:
 - 90% of patients do <u>not</u> receive a bill (no out of pocket expense)
 - Of the 10% that receive a bill, the average is \$350.00
- Patient Billing Practices
 - File claims regardless of network status
 - Insurance verification
 - Submit appeals as needed
 - Typically limited to the patient's in-network deductible, co-payments and co-insurance
- Tumor Profiling Assistance
 - Patient Navigator support
 - Patient educational materials
 - Financial assistance program
 - Compassionate Care program
 - Payment plans





MI Portal - Online Resource for Physicians

- Order services via eRequisitions
 - Ensuring the most current req is available
- View interactive reports; links to:
 - ClinicalTrials.gov
 - PubMed.com
 - CarisMolecularIntelligence.com
- Download results
- Track patient reports & ETAs
- HIPAA-compliant

To enroll, visit

www.CarisLifeSciences.com



CARÎSCODE

CMI Date	Disease Group/Tumor Type	Primary Tumor Site	Histology
After:	Select All	Enter Primary Tu	Enter histology
Before:	 Acute myeloid leukemia (AIVIL) Anal Carcinoma Anaplastic Thyroid Carcinoma Bladder cancer - non-urothelial 	filter (1 of 4)	filter (1 of 5)
Demographics	 Bladder cancer - urothelial Bone Cancer 	1234 >>>	12345 > >>
Male Female Either	 > Breast Carcinoma > Cancer of Unknown Primary > Cervical Cancer 	Abdomen, NOS Abdominal esophagus	Abdominal desmoid Abdominal fibromatosis
Master Ids	 Cholangiocarcinoma Colorectal Adenocarcinoma Ependymoma Econhagoal and Econhagogastric 	Abdominal lymph node Abdominal wall muscle Abdominal wall. NOS	Achromic nevus Acidophil adenocarcinoma Acidophil adenoma
	Esophagogastric Junction Carcino Female Genital Tract Malignancy Gastric Adenocarcinoma	Accessory nasal sinus (1 of 4)	Acidophil carcinoma (1 of 5)
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Current		Include		or	
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Integrated Commercial Team



- Fully integrated support from ordering to results interpretation:
 - MI Portal
 - Clinical Trials Connector
 - Consultation Program
 - Patient Support
 - Financial Assistance
 - Drug Reimbursement Support
- Supporting multiple audiences:
 - Physicians and staff
 - Patients and caregivers
 - Payors





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