

THERAPEUTICS

an **OPKO** Health Company

A phase 1/2a first-in-human clinical trial evaluating MDX2001, a multi-specific antibody in patients with advanced solid tumor malignancies

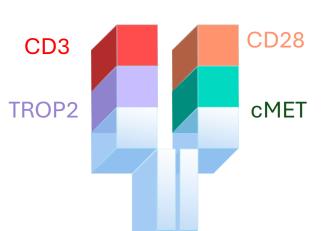
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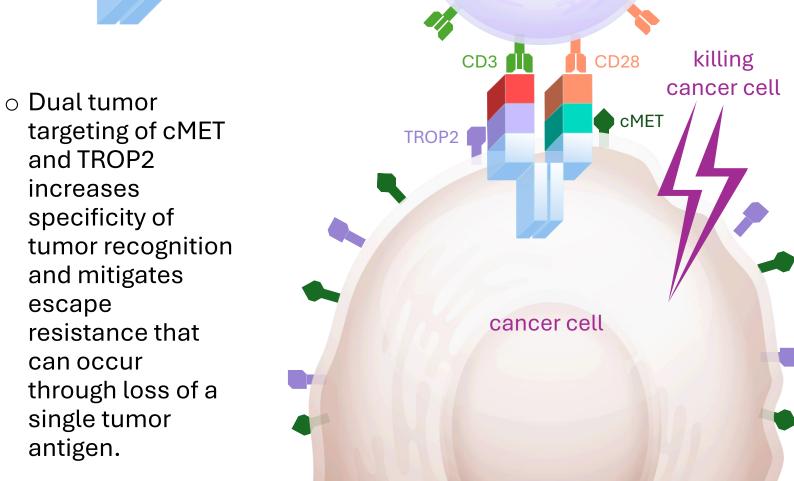
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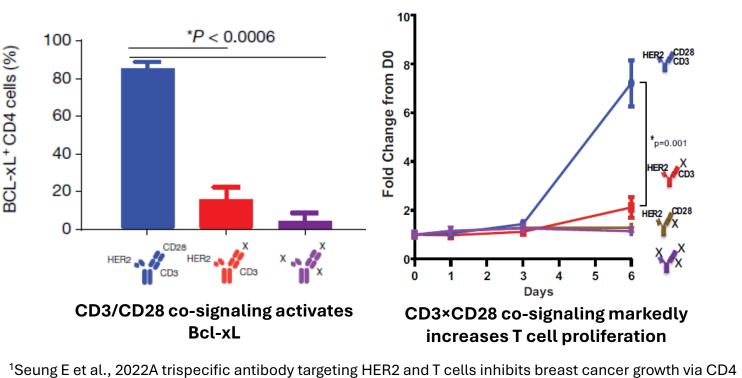
MDX2001 – A Lymphocyte Activation and Survival Enhancement Receptor Antibody (LASER)



 A next generation multispecific antibody activating T cells using signal 1 (CD3) and enhancing survival via signal 2 (CD28) to optimize sustained tumor killing.

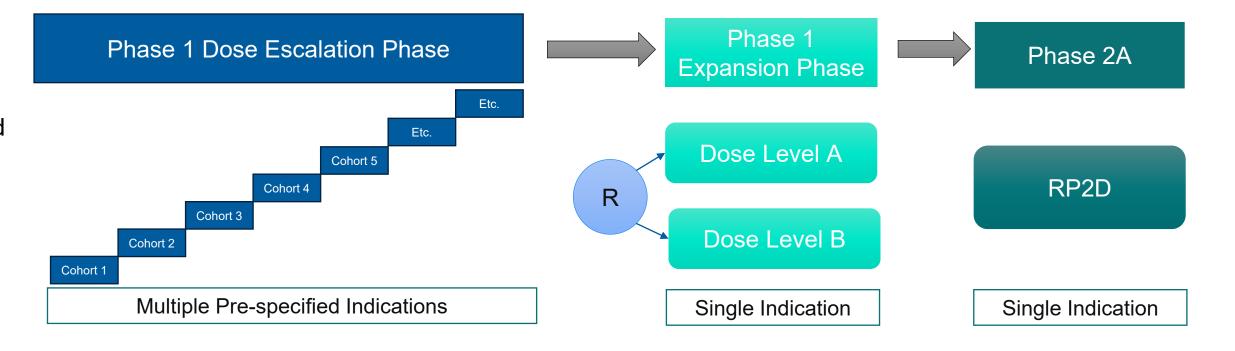


 Enhanced T cell survival and proliferation by engaging CD28 in the presence of CD3 activation¹



cells. Nature, 603, pp 328-334.

MDX-2001-101 Study Design



Study Objectives

	Primary	0	Safety and tolerability in patients with advanced solid tumor malignancies
		0	Identify a recommended Phase 2 dose
		0	Assess the anti-tumor efficacy in patients with selected advanced solid tumor malignancies (<i>Phase 1b/2</i>)
	Secondary	0	Further characterize anti-tumor efficacy and clinical benefit
		0	Characterize pharmacokinetics and immunogenicity
		0	Characterize relationship of baseline target protein expression in tumor tissue and clinical benefit
	Exploratory	0	Evaluate potential biomarkers in tumor tissue and blood pre- and post-treatment that may predict or correlate with response to MDX2001

Trial Sites in the US, UK and Europe

MD Anderson Cancer Center Ecaterina Dumbrava, MD Houston, TX (2024) NEXT Oncology

NEXT Oncology
David Sommerhalder ,MD
San Antonio, TX (2024)

Royal Marsden Hospital Anna Minchom, MD London, UK (2025) Sarah Cannon Research Institute Melissa Johnson, MD Nashville, TN (2024)

Sarah Cannon Research Institute Jason Henry, MD Denver, CO (2024)

> NEXT Oncology Elana Garralda, MD Barcelona, ES (2025)

Clinical Trial Page

A Phase 1/2a, Multicenter, First-in-Human, Open-Label Clinical Trial Evaluating MDX2001 Monotherapy in Patients With Advanced Solid Tumors

clinicaltrials.gov/study/NCT0623919



Tumor Indication Focus for Phase 1a Dose Escalation

 Biliary tract cancer 	 Head & neck cancer
 Breast cancer 	 Hepatocellular cancer
 Cervical cancer 	 Non-small cell lung cancer
 Colon or rectal cancer 	 Pancreatic cancer
 Endometrial cancer 	 Prostate cancer
 Esophageal cancer 	 Renal cancer
 Gastric & gastroesophageal junction cancer 	 Thyroid cancer

Other histologic tumor types based upon agreement with the sponsor

Key Inclusion Criteria

Patients must be ≥ 18 years of age

- Histologically or cytologically confirmed diagnosis of metastatic solid tumors
- Eastern Cooperative Oncology
 Group (ECOG) performance status
 0-1
- All patients should have at least 1
 measurable disease per RECIST
 v1.1. An irradiated lesion can be
 considered measurable only if
 progression has been demonstrated
 on the irradiated lesion.
- Adequate hematologic, hepatic and renal function and appropriate contraceptive use for clinical trial participation.
- Capable of giving signed informed consent

Key Exclusion Criteria

- Any clinically significant cardiac disease
- - Prior solid organ or hematologic transplant
 - Known untreated, active, or uncontrolled brain metastases
 - Known positivity with human immunodeficiency virus (HIV), known active hepatitis B or C, or uncontrolled chronic or ongoing infectious requiring intravenous treatment.
 - Receipt of a live-virus vaccination within
 28 days of planned treatment start
 - Participation in a concurrent clinical study in the treatment period.
 - Known hypersensitivity to MDX2001 or any of its ingredients