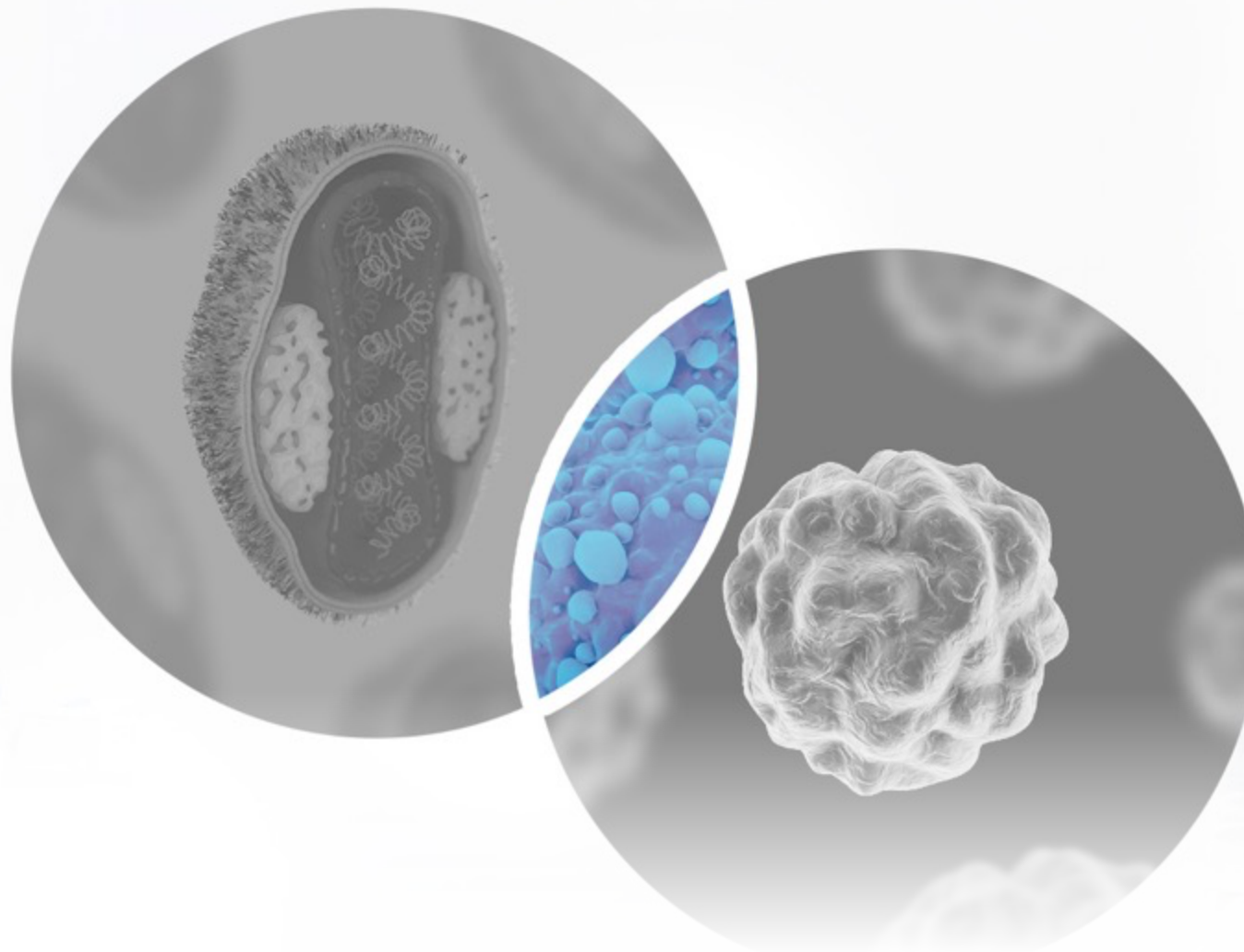


OncoMyx

Therapeutics



Corporate Overview

January 2021

Contact: Michael G. Wood, Cofounder, CFO & COO, mw@oncomyx.com

Non-Confidential

BETTER TOGETHER

Combining Myxoma OV's & Existing Immunotherapies

Deep Therapeutic Pipeline

OM101	Solid Tumors	DC 1Q21, IND 2022
Multi-armed, checkpoint inhibitor combo; preclinical IV efficacy		
OM102, 103 . . .	Solid Tumors	DC 2021, IND 2023
Built off OM101 platform with IV dosing optimization		
OM201, 202 . . .	Solid Tumors	DC 2022, IND 2024
Multi-armed (novel armings vs. OM101) with IV dosing optimization		
OM301	Multiple Myeloma	Discovery
Undisclosed bispecific (BiKe)		
OM302	AML	Discovery
Undisclosed		

Best-in-Class Oncolytic Virus (OV) Platform

- Multi-armed
- Systemic delivery
- Non-human virus
- Precision / targeted



Proprietary technology developed in McFadden's lab

Experienced OV Team

Oncology

Ignyta, Pfizer, Novartis, Genentech, Bayer & Merck

Oncolytic Viruses

Jennerex, Turnstone, SillaJen, CG Oncology & Onyx

Clinical & Commercial

> 20 INDs
> 30 clinical trials & multiple product launches



Top Team: proven biopharma leadership & OV therapeutic development expertise

Leadership

Steven Potts, PhD, MBA
Cofounder & CEO



Michael Wood, MBA
Cofounder, CFO & COO



Leslie Sharp, PhD
CSO



James Burke, MD
Medical Advisor



Ursula Fritsch, PharmD
Regulatory Advisor



Georg Roth, PhD
CMC Advisor



Matt Fust, MBA
Finance Advisor



John Wallen, JD, PhD
IP Advisor



Board of Directors

Charles Baum, MD, PhD
OncoMyx Chair, Mirati CEO



Steven Potts, PhD, MBA
Cofounder & CEO



Kanad Das, PhD
Director, BIVF



Tim Xiao, CFA, FRM
Principal, Delos Capital



Jason Rushton
Partner, Xeraya Capital



Grant McFadden, PhD
Cofounder, Research Advisor & Professor



SAB

Grant McFadden, PhD
Cofounder, Research Advisor & Director

Ronan O'Hagan, PhD
SVP, Akrevia; Ex-Exec Dir Merck Onc.

Tobias Bald, PhD
Oncology Head at QIMR Research

Dominic Spinella, PhD
Ex-VP Research at Chugai

Neil Gibson, PhD
CSO COI; Ex-CSO Pfizer Oncology

Better Together: current immunotherapies benefit only 13%¹ of cancer patients & combining with OV's has significantly increased response rates²

Response Rates of Current Immunotherapy

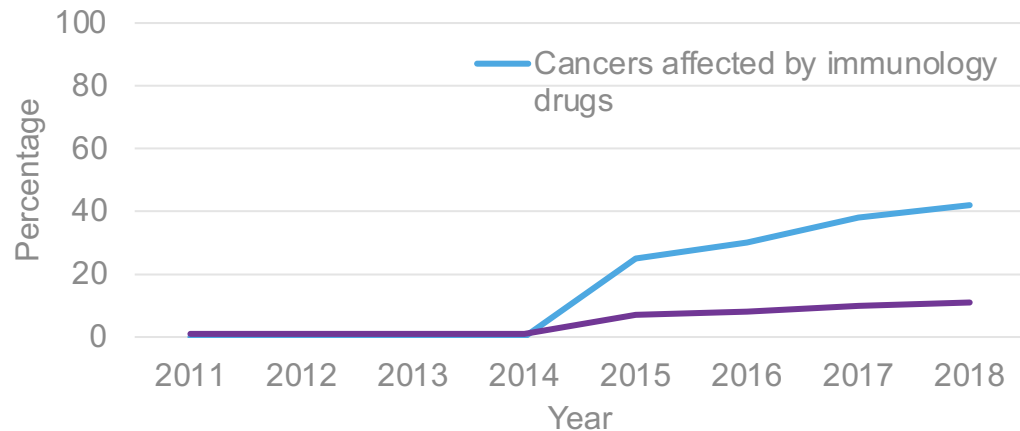
Lung 10-20%³



Colorectal 4%⁴



IO in CRC mostly limited to a small subset of MSI-H patients



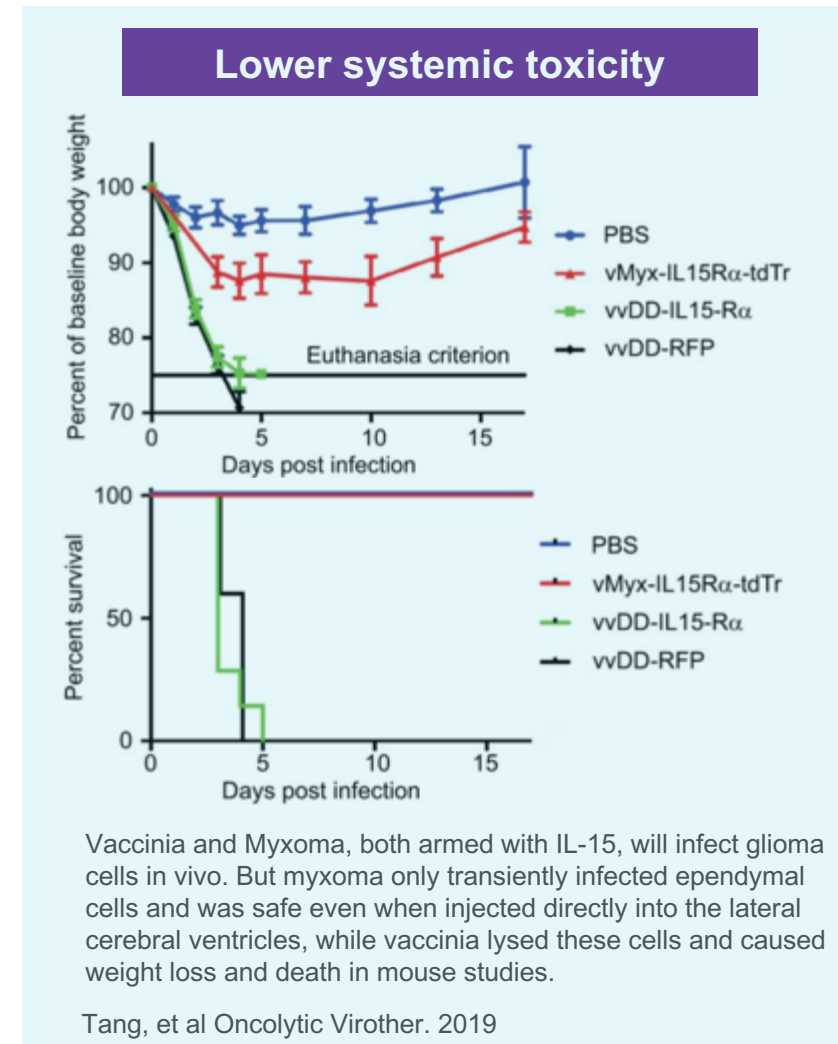
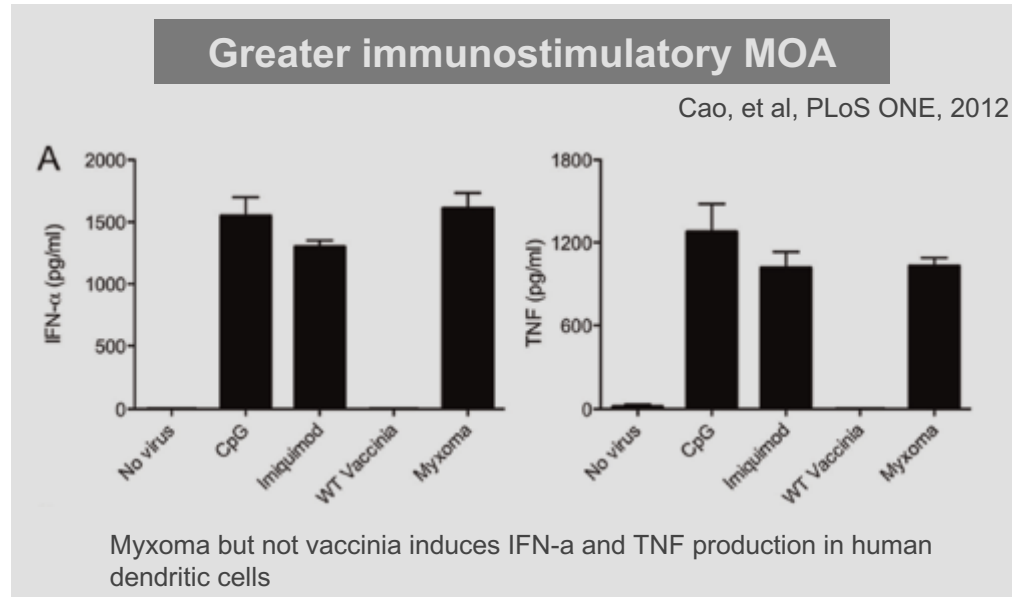
Oncolytic Viruses + Immunotherapy

Oncolytic viruses can increase immunotherapy response rates

Tumor	Combination	Response Rate
Melanoma (2016)	T-Vec (herpes) + ipilimumab	18% → 39% Response Rate
Melanoma (2017)	T-Vec (herpes) + pembrolizumab	88% Response Rate
Sarcoma (2020)	T-Vec (herpes) + pembrolizumab	35% Response Rate
Basket Trial (2021)	T-Vec (herpes) + pembrolizumab	Ongoing Phase 3





Myxoma has immunostimulatory & safety advantages over vaccinia as systemic OV

- Myxoma and vaccinia are the two leading multi-armable oncolytic poxviruses
- Myxoma is not pathogenic to humans and may be able to be safely delivered systemically at higher doses & over a longer dosing period than vaccinia
- Myxoma is immunostimulatory in human dendritic cells while vaccinia is immunosuppressive in the same cells



Best-in-Class Platform: at a time when pharma has high interest in OV's, we have the best platform

OncoMyx's MYXV Platform

-  **Multi-armed**
2-5+ genes can be engineered into MYXV to optimize IO response
-  **Systemic delivery**
Via IV or proprietary ex vivo virotherapy (EV2)
-  **Non-human pathogen**
No pre-existing immunity; longer dosing window, easier handling, and safety
-  **Precision / targeted oncology**
Unique patient-matched biomarker programs

Why is MYXV Best-in-Class?

- Multi-arming is the recent OV trend, & our transgene capacity & expression appear superior
- IV dosing is the OV "Holy Grail", & our IV data enables us to lead with IV programs vs. IT only (Replimune, \$1.8B market cap in Phase 2)
- We believe a non-human pathogen maximizes the IV dosing window, & our team is uniquely qualified to develop the 1st targeted OV Tx's

Platform Comparison

OncoMyx	Myxoma	● ● ● ●
Amgen	Herpes	●
AstraZeneca	NDV	● ? ●
KaliVir/WO	Vaccinia	● ?
Oncorus	Herpes	●
Oncorus	Synthetic	● ? ●
PsiOxus	Adenovirus	● ?
Replimune	Herpes	●
Turnstone	Maraba	● ? ●
Turnstone	Vaccinia	●* ?
Vyriad	VSV	● ?



Targeted Oncology: the only OV company experienced in precision medicine



Targeted therapies appropriate for 0.5-2% of tumors¹



OncoMyx MYXV therapies target & are designed to benefit large / economically viable patient populations

Targeted Approaches

	ROS1, TRK (Phase 2)	\$1.7B Dec 2017	
	RET, TRK (Phase 2)	\$8.0B Jan 2019	
	BRAF (Marketed)	\$11.4B Jun 2019	
	RET (Marketed)	\$5.8B Market Cap	
	KRAS (Phase 3)	\$11.1B Market Cap	

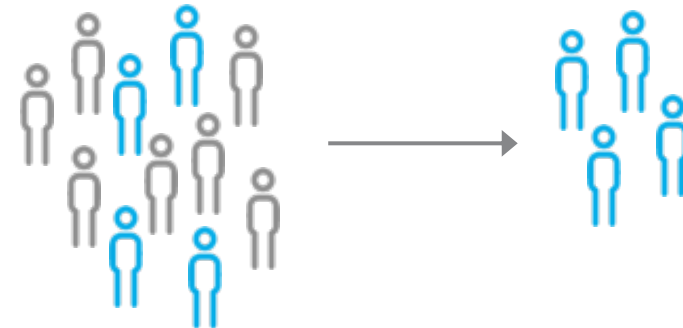
OncoMyx

MYXV Platform Tropism

Viral backbone tropism for a cancer subset

Arming

Transgenes to target certain tumor types/ mutations



Phase 1 all comers with mechanism enrichment for target population

Phase 2 in target population with higher ORR potential

Deep Therapeutic Pipeline: precision medicine across solid & hematological cancers

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Multi-Arming: targeting multiple, complementary points of cancer immunity cycle

T and NK cells

Enhancement of recruitment and function

Microenvironment modulation

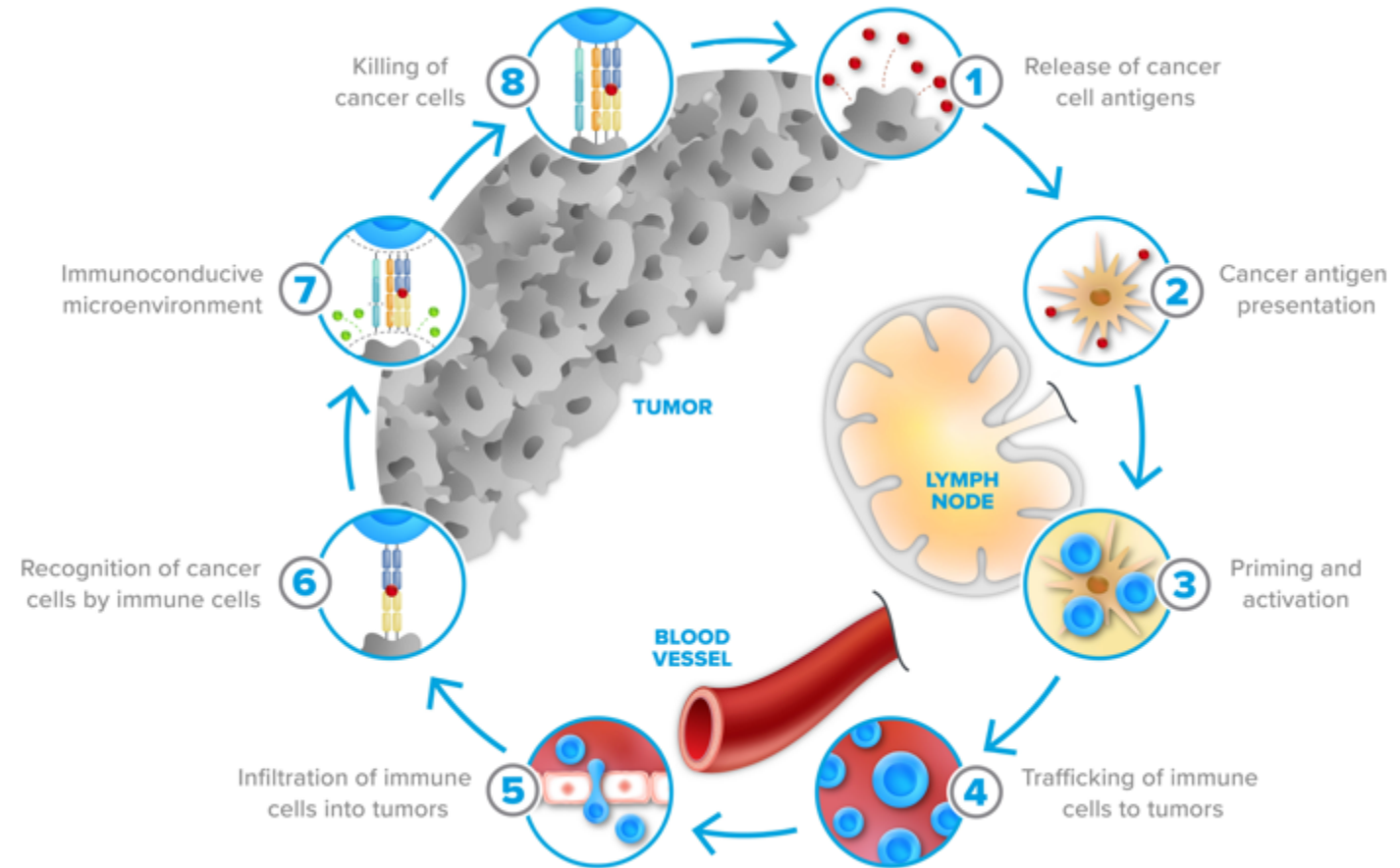
Increase inflammatory signals for recruitment, decrease immunosuppressive environment, and normalize vasculature

Dendritic cells

Increasing trafficking and antigen presentation

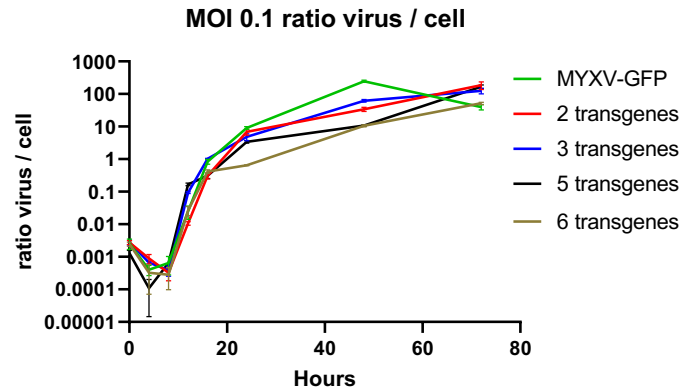
T cell activity

Enhancement through combination with approved immune checkpoint Inhibitors (PD-1/L1, CTLA-4)



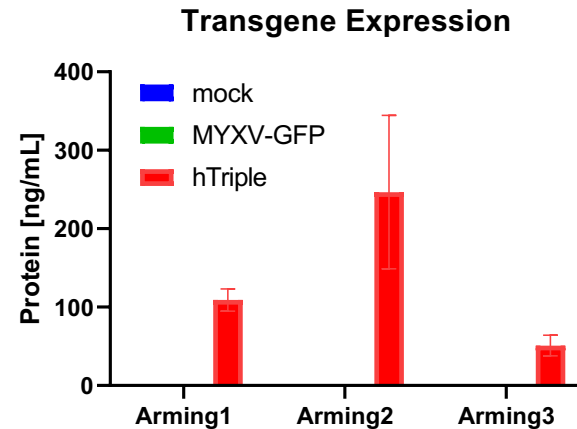
Multi-Armed Myxoma Demonstrates Robust Replication and Payload Production

Replication



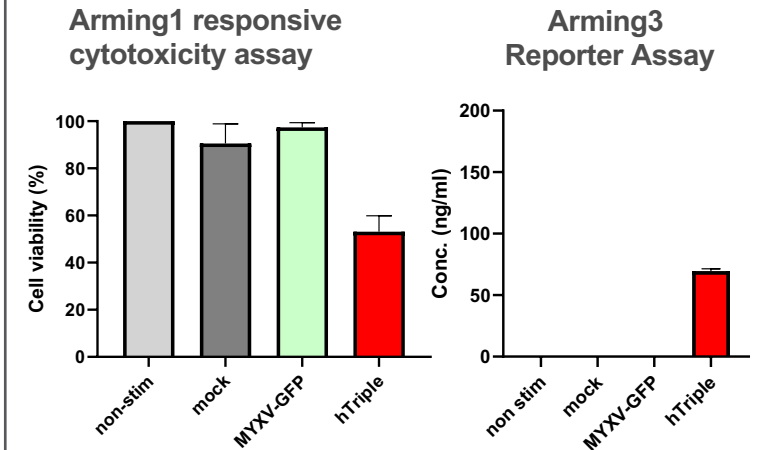
Similar replication of viral constructs containing multiple transgenes

Transgene Production



Multi-armed myxoma virus produces multiple transgenic proteins

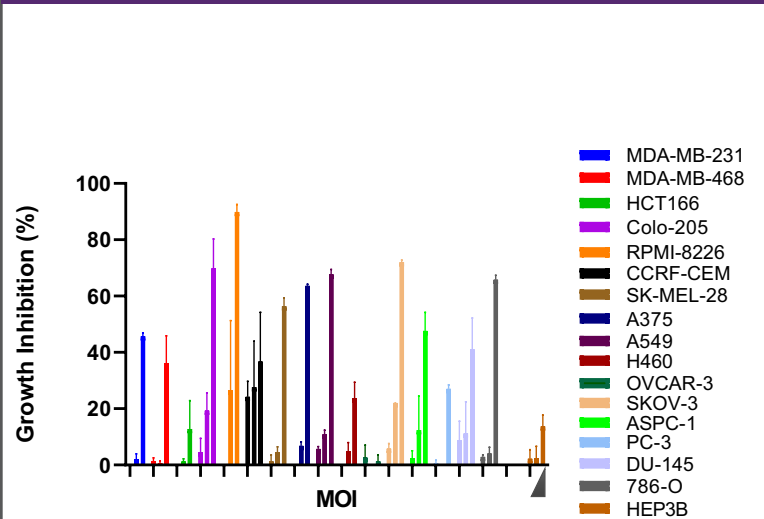
Transgene Function



Arming proteins produced by multi-armed myxoma virus are functionally active

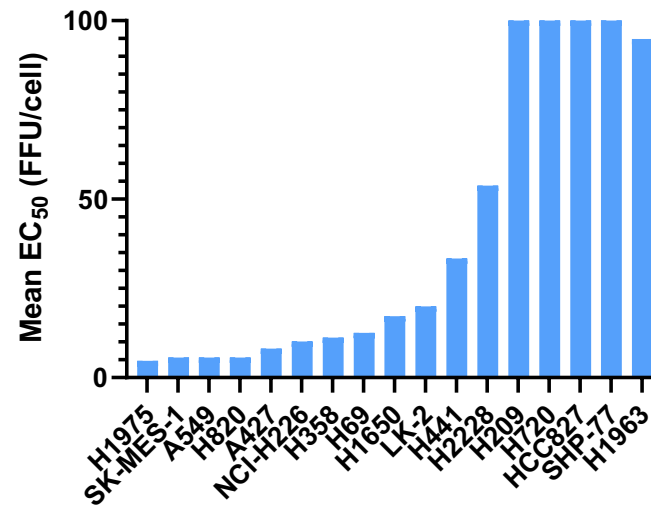
Multi-Armed Myxoma Is Cytotoxic to Multiple Human Cancer Cell Lines Across Multiple Disease Types

Multi-Tumor Panel



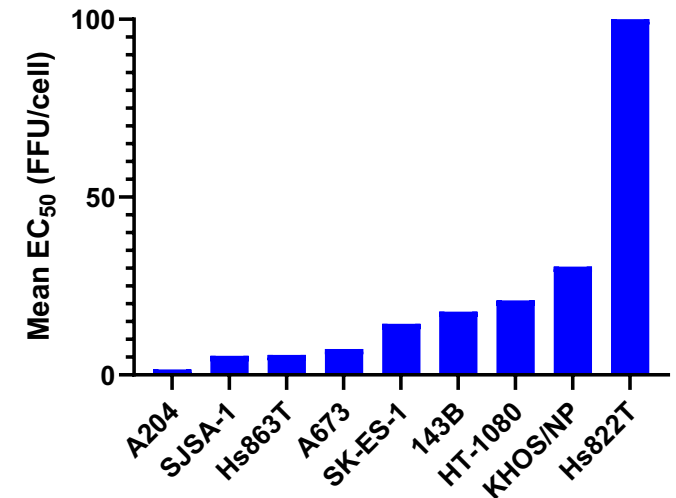
Armed myxoma virus is oncolytic across a variety of human tumor cell lines

Lung Cancer Lines



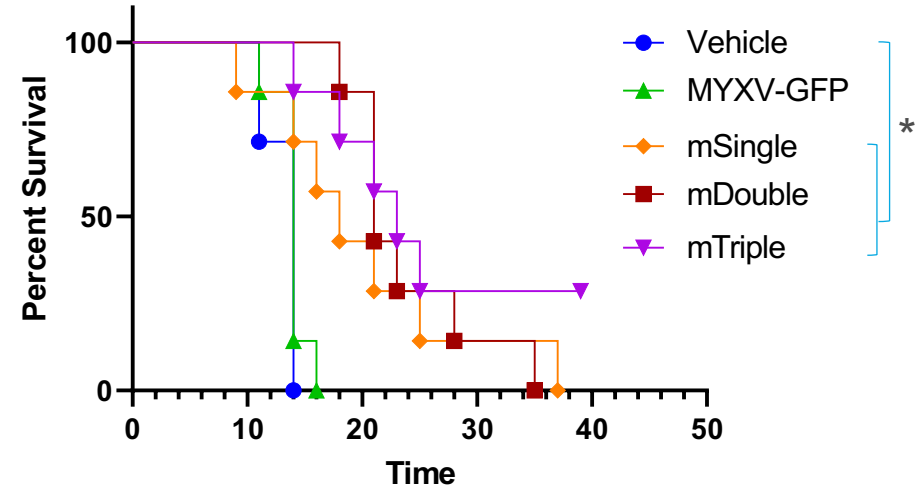
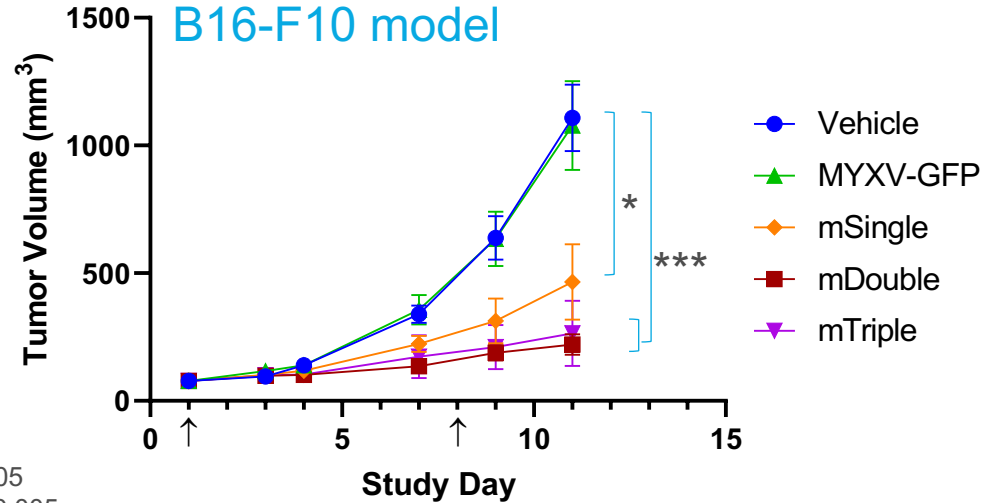
Armed myxoma virus is cytotoxic to many human lung cancer cell lines

Sarcoma Cell Lines

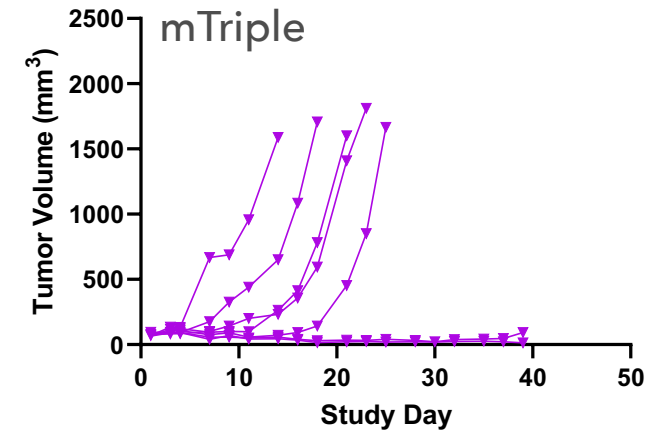
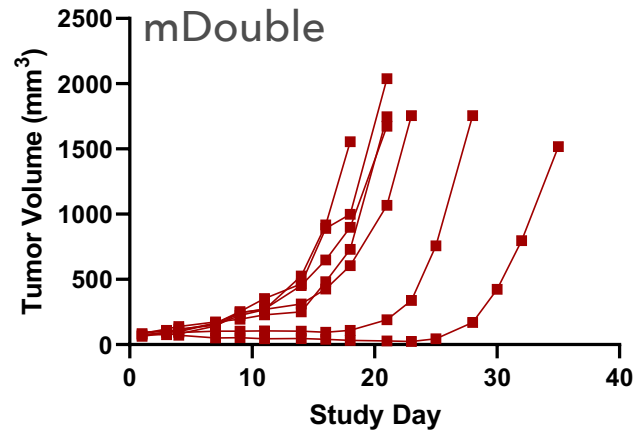
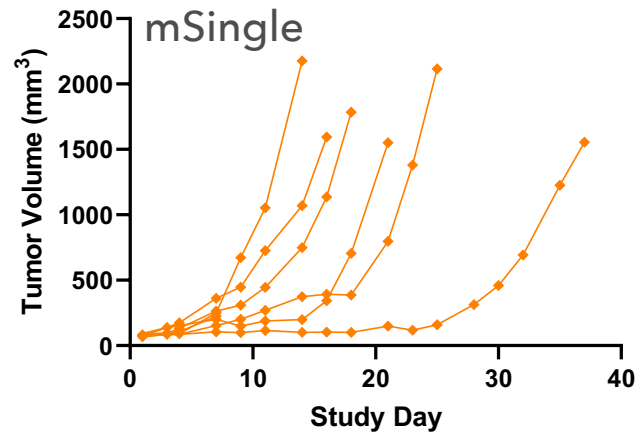


Armed myxoma virus is cytotoxic to many human sarcoma cell lines

Multi-armings of our program candidates demonstrate complementary efficacy



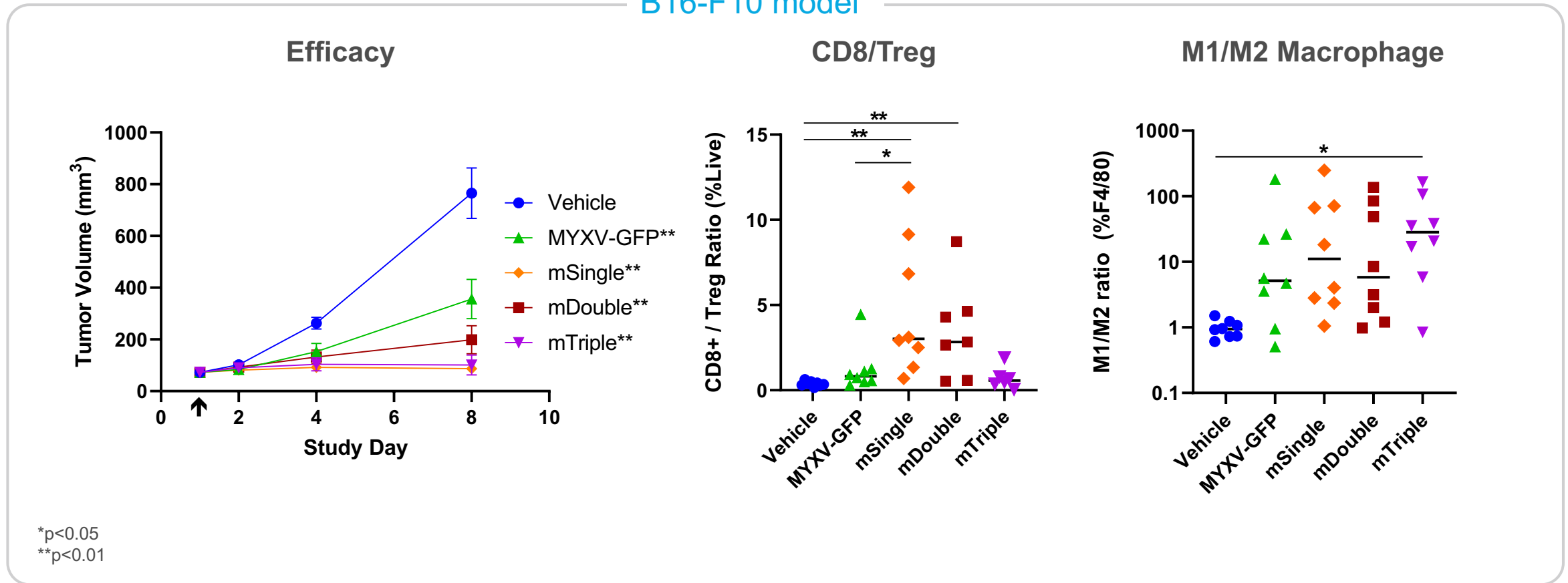
Individual Animal Data



All viruses dosed at 2×10^7 FFU/dose IT on Day 1 and Day 8

Multi-armed myxoma virus induces anti-tumor changes in tumor infiltrating lymphocyte populations

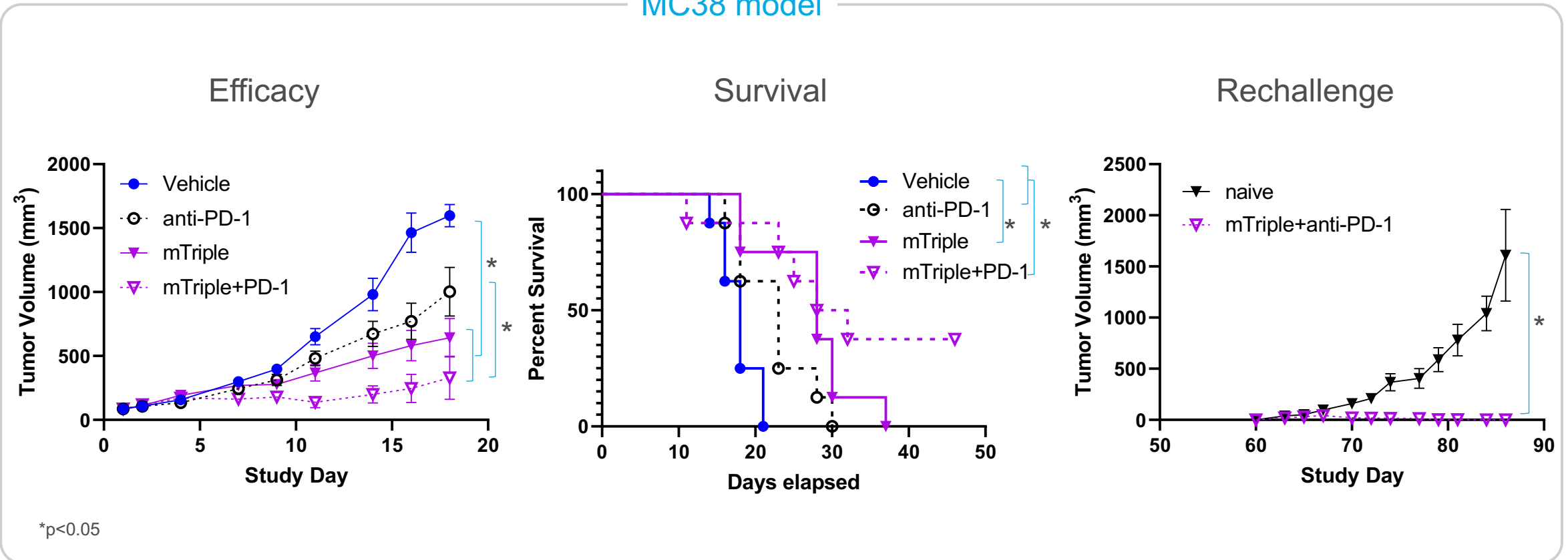
B16-F10 model



All viruses dosed at 2×10^7 FFU/dose IT on Day 1

Triple-armed candidate tumor growth inhibition & survival w/ and w/o checkpoint inhibitors

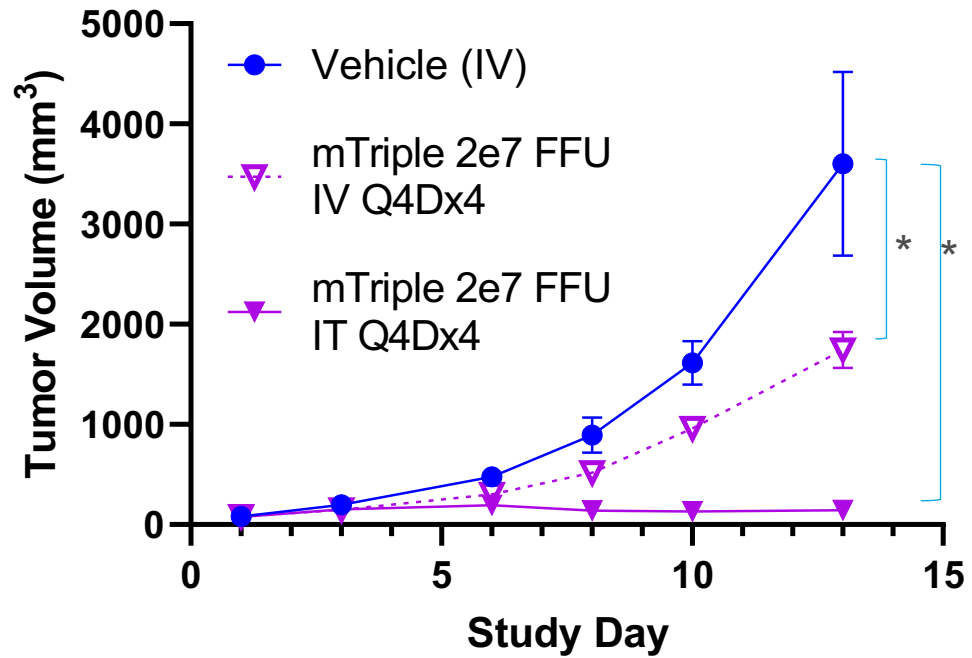
MC38 model



All viruses dosed at 2x10⁷ FFU/dose IT Q4Dx4, αPD-1 dosed at 10 mg/kg IP Q4Dx4

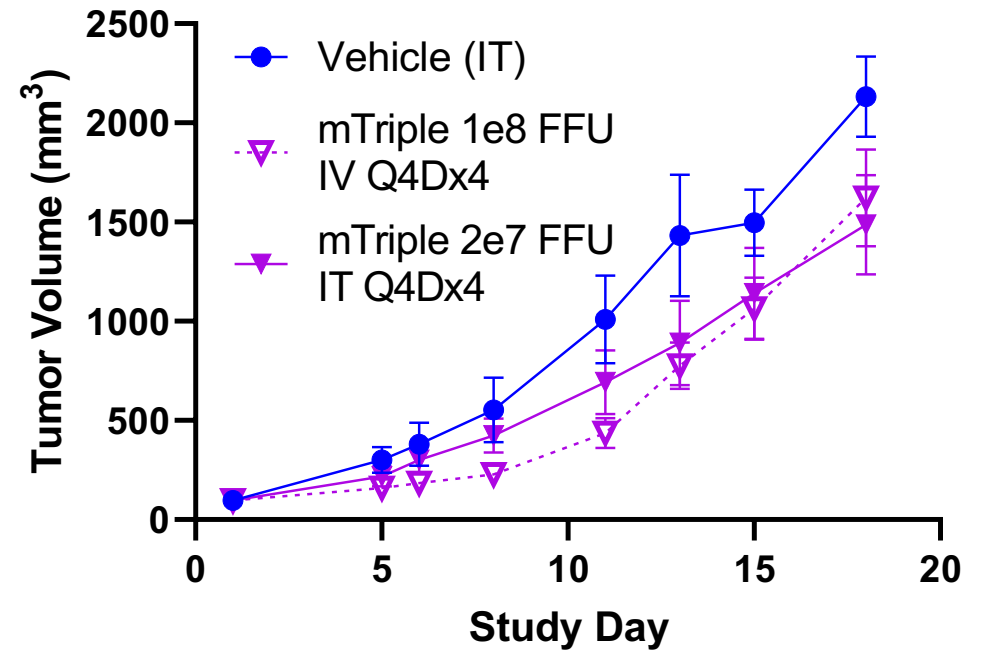
Multi-armed virus is efficacious following IV dosing in subcutaneous syngeneic tumor models

B16-F10



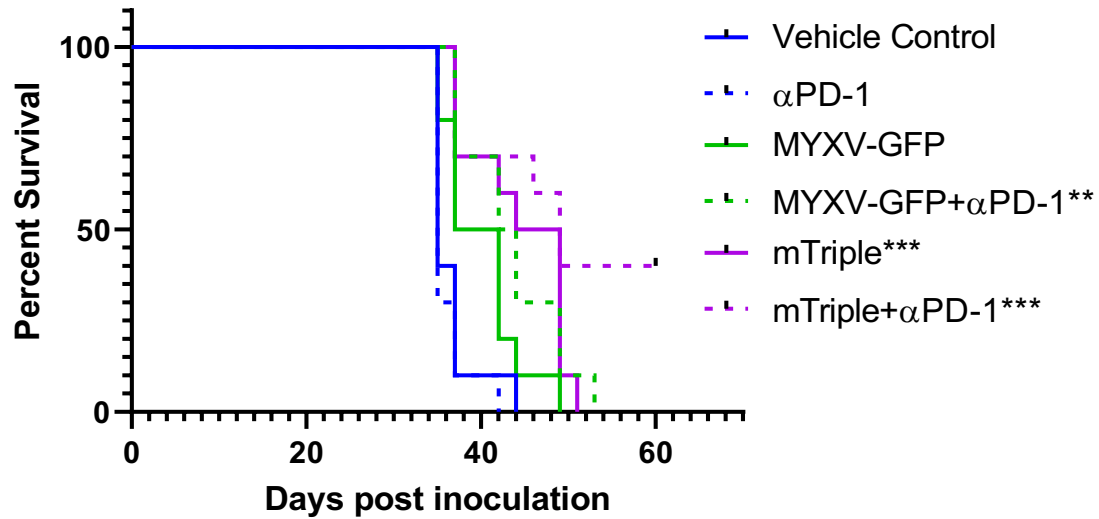
*p<0.05

CT26



Triple-armed candidate demonstrates IV efficacy in disseminated models w/ immune checkpoint inhibitors (ICI)

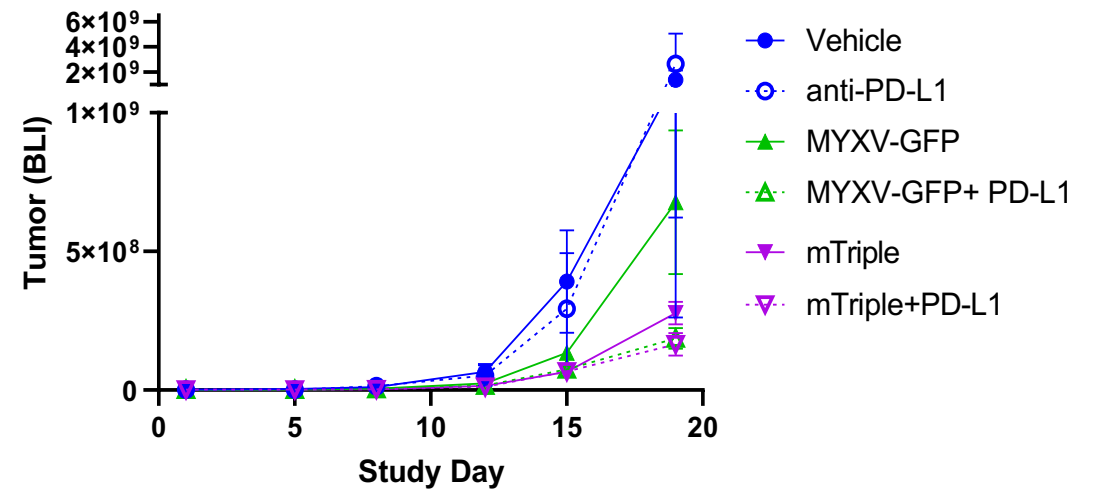
K7M2-Luc with IV Delivery



**p<0.01

***p<0.005

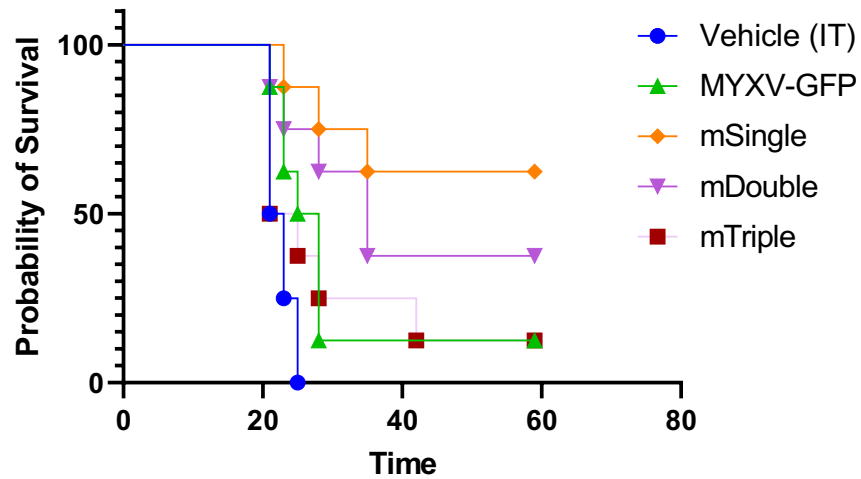
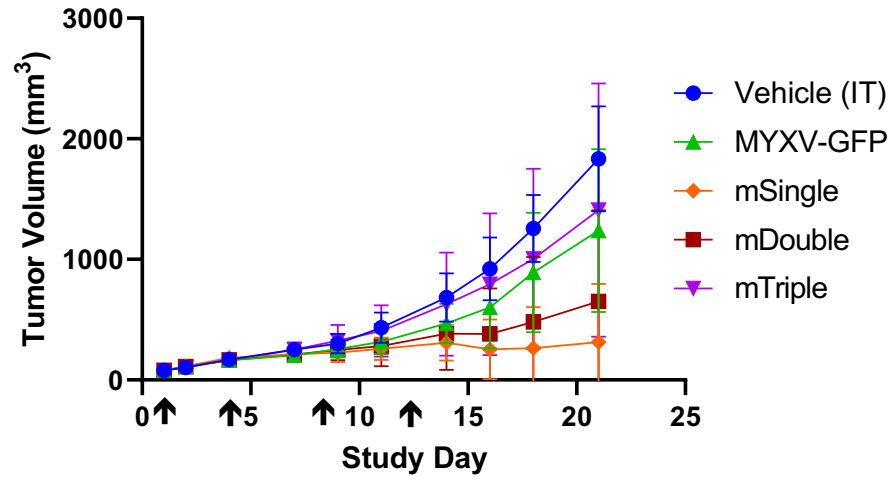
B16-F10-Luc with IV Delivery



All viruses dosed at 2×10^7 FFU/dose IV Q4Dx4, α PD-1/ α PD-L1 dosed at 10 mg/kg IP Q4Dx4

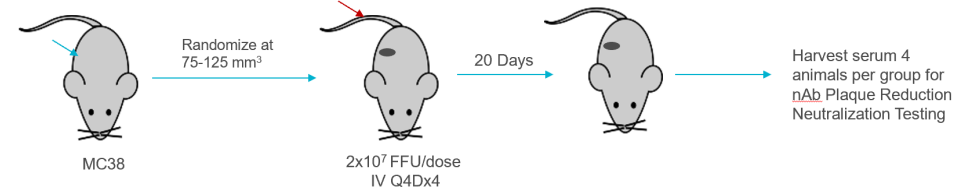
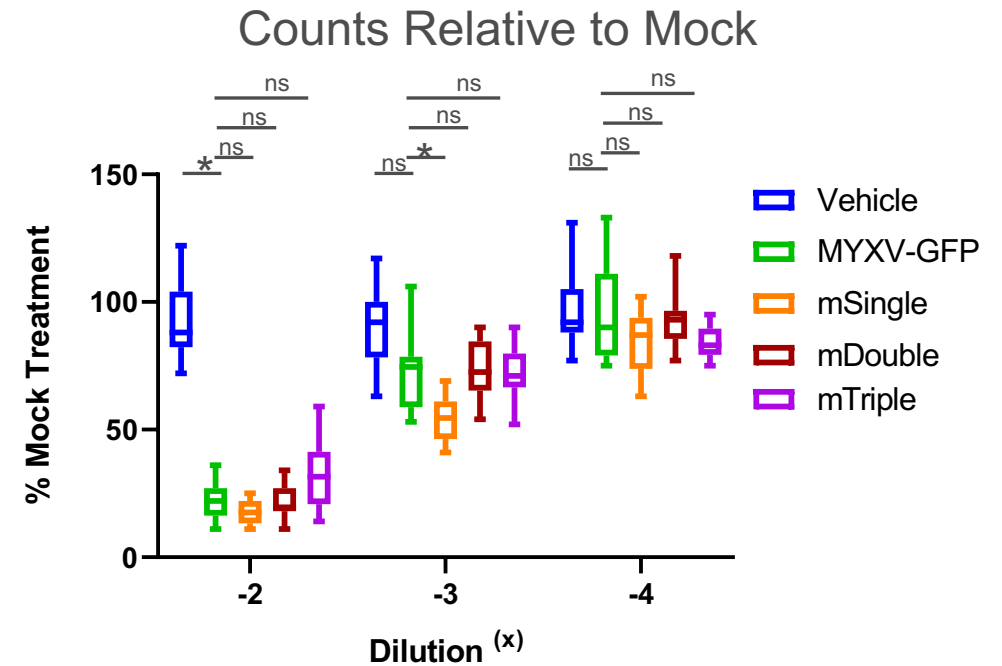
Myxoma retains efficacy after four dose regimens and neutralizing anti-myxoma antibody generation isn't increased by multi-arming

Efficacy maintained after four doses



EMT-6 model dosed IT 2e7FFU/dose Q4Dx4

ADA not affected by multi-arming



Focused Execution: Series A accomplishments & ongoing / planned activities

Series A Accomplishments

- Growth & oncolytic equivalence of multi-armed viruses
- Expression in dose/time responsive manner & biological function of multiple transgenes
- Preliminary oncolytic screening across multiple indications
- In vivo IV efficacy of multi-armed viruses as single agent & in combination with ICIs in multiple models
- Process/analytical development in-process, viable yields achieved, GMP slot reserved, preparing to upscale
- Established & engaged with SAB

Ongoing & Planned Activities

- Selection of first development candidate (DC, 1Q 2021)
- Optimization of dose, schedule, PK, and biofunctional assays
- In vitro screening for clinical indication & patient selection biomarkers
- Demonstration of in vivo modulation of mechanism of action biomarkers
- DC plaque purification, master virus seed, engineering run & GMP manufacturing
- Pre-IND meeting (mid-2021)
- File first IND (Q4 2022)

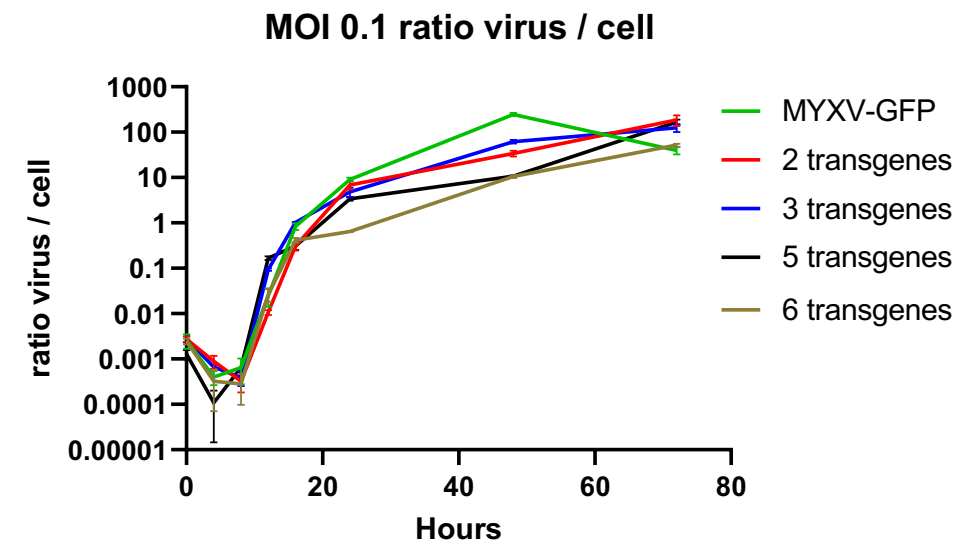
CMC & GMP manufacturing programs on track

CMC Accomplishments

- Locked in CMO manufacturer that can scale through commercial phases. Strong experience in virus and vaccine manufacturing.
- Working with serum-free cell line that has been used in commercial vaccines.
- Utilizing scalable manufacturing process and have generated adequate yields for up-scaling.
- Reproduced growth curves at CMO with commercial cell line with penta-armed virus.
- Plaque picking two DC viruses and one backup virus.
- Analytic measurement approaches transferred to CMO for major transgenes.

Ongoing & Planned Work

- DC plaque purification, master virus seed, engineering run & GMP manufacturing



Myxoma is a robust agent for scalable multi-arming. We have demonstrated equivalent growth curves for 6 transgenes in-house at OncoMyx, and regularly use a 5 transgene model virus for external CMO activities

Lead program clinical opportunities

Four Potential Areas of Clinical Opportunity

IO Sensitive Indications

Increase response in responders

Post IO Indications / Secondary Resistant

Re-sensitize tumors to IO

IO Resistant Tumors

Make cold tumors sensitive to IO

Niche Indications

Rapid path to approval

2021

2022

2023

2024

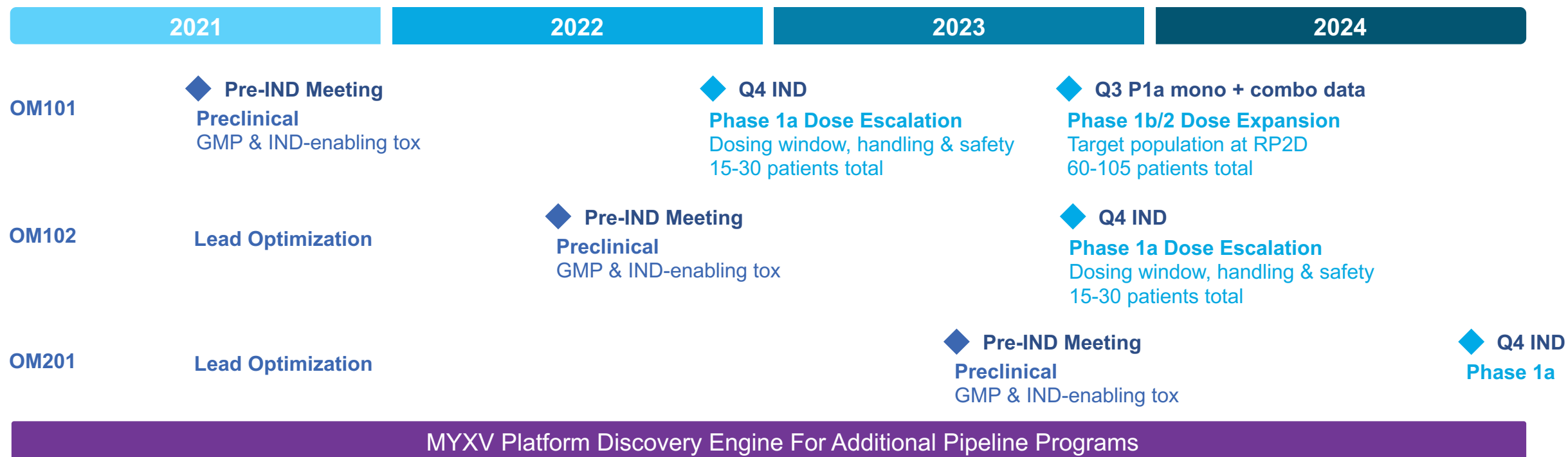
OM101

◆ **Pre-IND Meeting**
Preclinical
GMP & IND-enabling tox

◆ **Q4 IND**
Phase 1a Dose Escalation
Dosing window, handling & safety
15-30 patients total

◆ **Q3 P1a mono + combo data**
Phase 1b/2 Dose Expansion
Target population at RP2D
60-105 patients total

Seeking \$50M+ Series B/crossover in Q2 2021 to IPO in Q4 & transition to clinical



Use of \$50M Series B proceeds (through end of 2023):

- \$25M to advance OM101 into Phase 1/2
- \$10M to advance OM102 to 1st patient dosed
- \$10M to advance additional programs & fund discovery engine
- \$5M for G&A

Positions/resources the company for IPO in Q4 2021 with deep therapeutic pipeline, partnering optionality & news flow

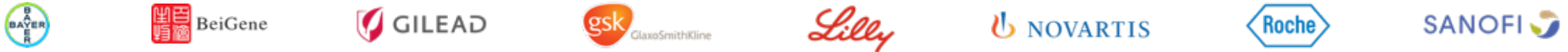
Cancer Pharma Pipeline Gap: all cancer pharmas may soon seek a multi-armed, systemic & targeted OV platform to improve existing immunotherapies

Cancer Pharma

OV Platform

Challenges Ahead

No Known Existing OV Platform (N=8+)



OV Platform CANNOT Multi-Arm, NOT Systemic, NOR Targeted (N=5)

abbvie	VSV / maraba (via Turnstone's partnership)	Unable to Multi-arm, not immuno-stimulatory & unstable	ALL 20+ cancer pharmas are prospects for an OncoMyx strategic transaction
AstraZeneca	VSV (via Omnis partnership)		
Boehringer Ingelheim	VSV (via ViraTx acquisition)		
MERCK	Coxsackievirus (via Viralytics acquisition)		
REGENERON	VSV (via Vyriad partnership)		

OV Platform Able to Multi-Arm, but NOT Systemic, NOR Targeted (N=7)

AMGEN	Herpes (via BioVex acquisition)	Somewhat capable platform not optimally armed and developed, resulting in lackluster Imlygic revenue; unable to IV deliver; requires cold storage
astellas	Vaccinia (Via Tottori University partnership)	Capable; vaccinia is immunosuppressive and NOT dosed IV
Bristol-Myers Squibb	Adeno (via PsiOxus partnership)	Limited multi-arming capacity & human pathogen is somewhat unstable
Celgene	Herpes (via Oncorus partnership)	Similar to above/ Amgen
janssen	Herpes (via BeneVir acquisition)	Similar to above/ Amgen
Pfizer	Vaccinia (Via Western Oncolytics partnership)	Capable; vaccinia is immunosuppressive and NOT dosed IV
Takeda	Vaccinia (Via Turnstone partnership)	Capable; vaccinia is immunosuppressive and NOT dosed IV

Value Creation & Generating Optionality: we aim to build the company for the long-term & evaluate options along the way



Select Leading Cancer Pharmas



Recent Transactions for Oncolytic Viruses

Partnerships

 turnstone. <small>A Stepcare Brand</small> (Preclinical)	 KALIVIR <small>IMMUNOTHERAPEUTICS</small> (Preclinical)
 \$120M upfront (\$1B total) 2019	 \$56M upfront (\$634M total) 2020

Acquisitions

 BioVex (Phase 3) acquired by	 VIRALYTICS (Phase 2) acquired by	 BeneVir (Preclinical) acquired by	 ViraTherapeutics (Preclinical) acquired by
 \$425M upfront (\$1B total) 2011	 \$394M upfront (\$394M total) 2018	 \$140M upfront (\$1B total) 2018	 n/a upfront (\$244M total) 2018

IPOs

 Oncorus \$750M Market Cap (Dosed 1 st Patient) IT ONLY Lead Program
 Replimune \$1.8B Market Cap (Phase 1/2) IT ONLY Pipeline

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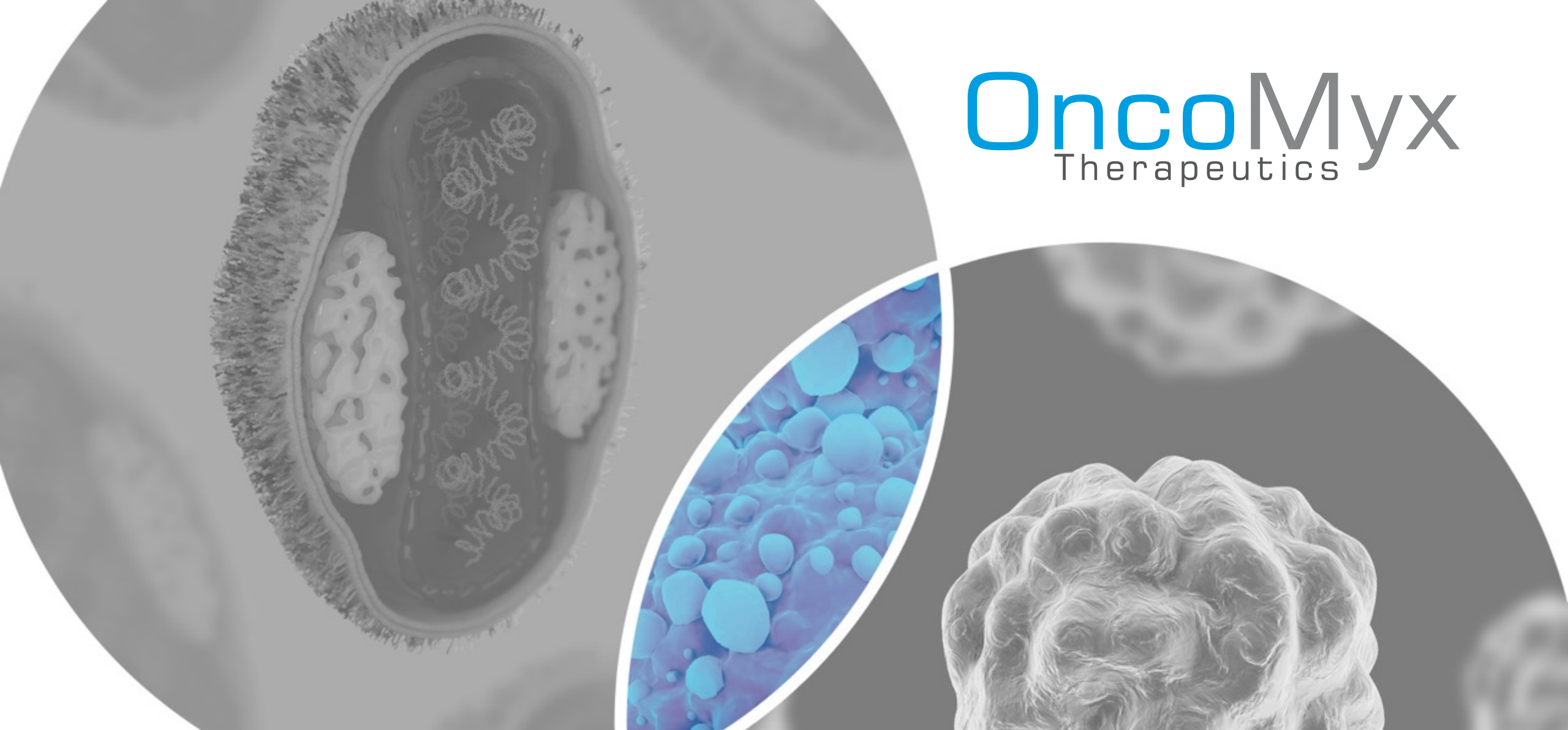
Next Steps

Seeking \$50M+ series B/crossover in Q2 2021 to:

- Advance our deep therapeutic pipeline
 - IPO in Q4 2021
- Transition OncoMyx into a clinical-stage organization & build the leading IV-delivered oncolytic immunotherapy biotech

OncoMyx

Therapeutics



Thank You