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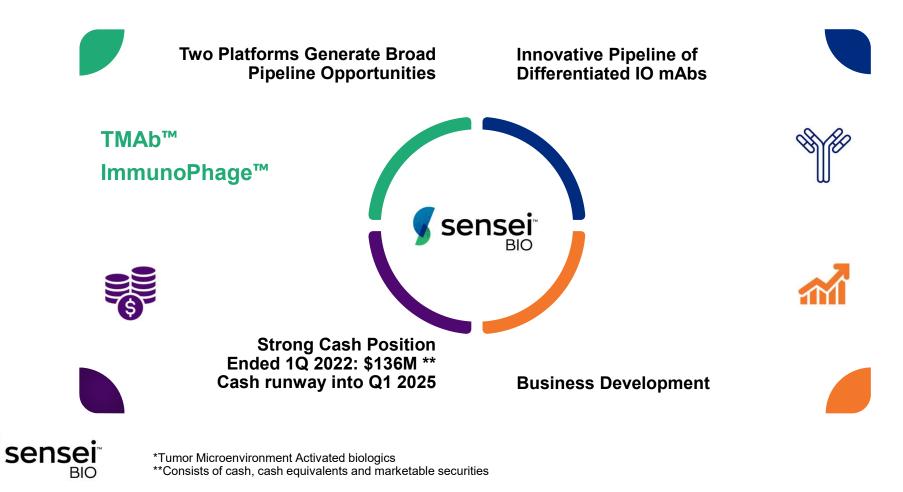
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Positioned to Drive Value with Next Generation Product & Platform Development

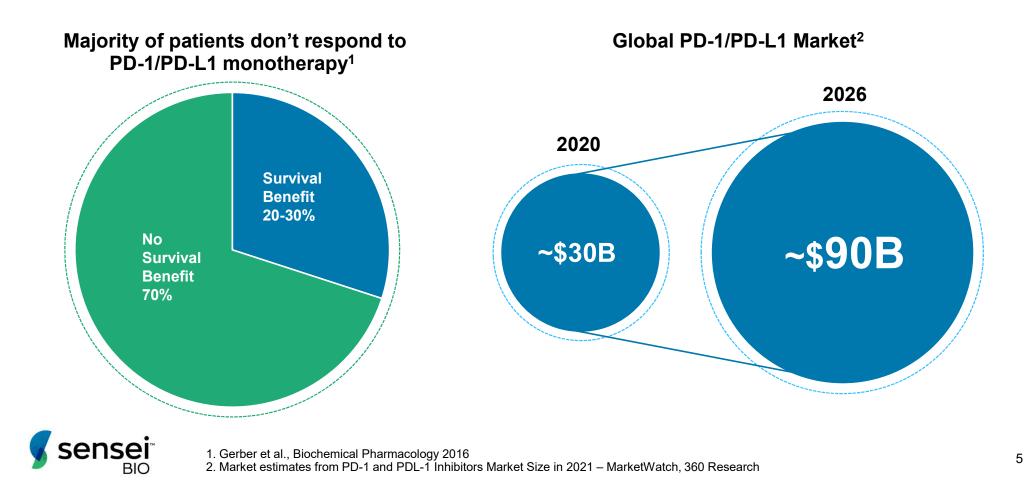


Innovative Pipeline of IO Drugs with Broad Commercial Potential

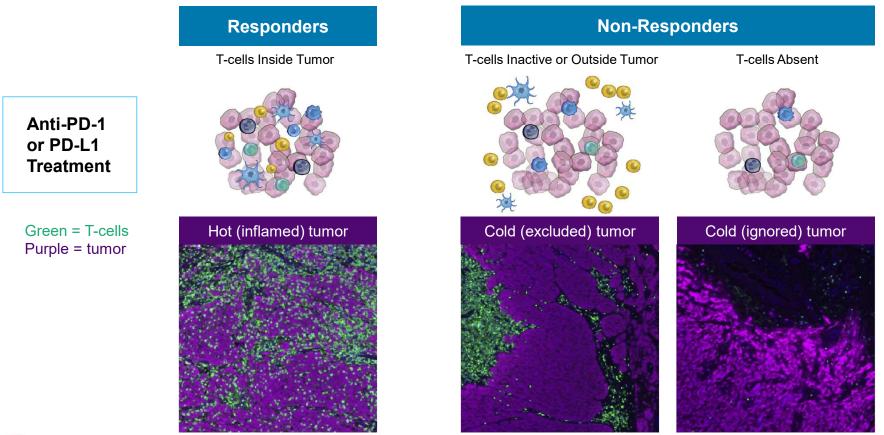
	Program (Target)	Indication	Discovery	IND-enabling	Phase 1 / 2 Clinical
TMAb	SNS-101 (VISTA)	Solid Tumors			
	SNS-102 (VSIG4)	Solid Tumors			
	SNS-103 (ENTPDase1/C D39)	Solid Tumors			
ImmunoPhage	SNS-401-NG (Multiple Tumor Antigens)	Merkel Cell Carcinoma			
		Multiple Indications			



The Modern-Day Challenge in Immuno-Oncology



Two Major Types of Non-Responders to PD-1 Blockade





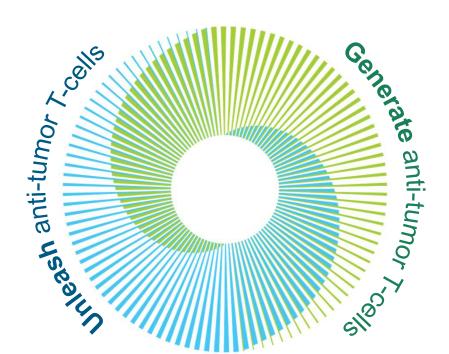
Adapted from Van der Woulde-LL, et al, Trends in Cancer, 2017

Two Platforms to Unleash Anti-Cancer T-cell Activity



TMAb™ (Tumor Microenvironment Activated Biologics) Platform

- Next-generation tumor activated mAbs
- Binding only in the low-pH tumor microenvironment
- Target checkpoints and/or other immune pathways
- Enable improved PK/PD and toxicity profiles





ImmunoPhage[™] Platform

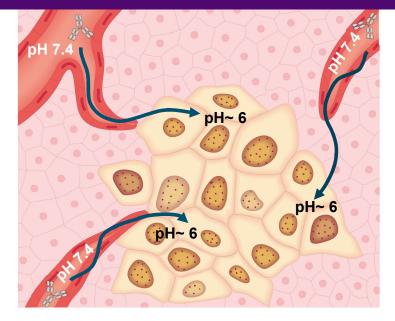
- Powerfully self-adjuvanted nanoparticle vaccine can drive B cell and T cell responses
- Multi-antigen vaccine enables personalized approach from "offthe-shelf" components
- Targets APCs
- Enhanced through addition of immunostimulatory nanobodies & cytokines

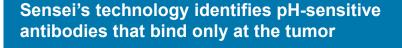


pH-sensitive Antibodies Selectively Bind Their Targets in the Low-pH Tumor Microenvironment

TMAb Platform

The tumor microenvironment of pH ~6 is lower than physiological pH of 7.4





- Antibodies that bind at physiological pH may encounter a "sink"
 - Prevents effective binding at the tumor and may lead to toxicity
- TMAb antibodies bypass tissue compartments other than the low-pH tumor microenvironment
- Goal is to unlock previously undruggable immune targets through potential for improved safety and clinical activity profile

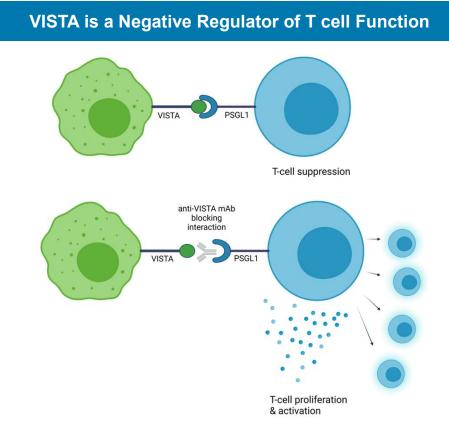
VISTA: An Emerging Checkpoint Target on Myeloid Cells

Target Overview:

- B7 family ligand
- Extensive expression on myeloid cells¹ correlating with poor survival rates across multiple cancers
- Novel development program with no approved therapies
- Large market opportunity

Sensei's Competitive Advantage:

- Extensive understanding of VISTA biology and differentiated candidate antibody
- Unique pH-sensitive antibody





1. Lines et al. Cancer research vol. 74,7 (2014) 2. Gao et al. Nature medicine vol. 23,5 (2017)

Increased Understanding of VISTA as a Promising Target to Address the Needs of Patients with Cancer

medicine

BRIEF COMMUNICATIONS

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Received 16 December 2016; accepted 17 February 2017; published online 27 March 2017; doi:10.1038/vm.4308

NATURE MEDICINE VOLUME 21 TNUMBER ST MAY 2017

Feature Review

Trends in

Immunology

VISTA: A Mediator of Quiescence and a Promising Target in Cancer Immunotherapy

Long Yuan, 1.2 Jahnavi Tatineni, 2 Kathleen M. Mahoney, 2.3 and Gordon J. Freeman^{2,*}

V-domain Ig suppressor of T cell activation (MSTA) is a 87 family member that maintains T cell and mysleid quiescence and is a promising target for combina-tion cancer immontherapy. During inflammatory challenges, VISTA caliviary suspenses of T cell torics and increased production of threfexibility. The three programs macrophages forwards reduced production of promising many characteristics and increased production of threfexibility. The interaction of VISTA with its lighting is regulated by pH, and the many characteristics and the interaction of VISTA with its lighting is regulated by pH, and the method of the interaction of VISTA with its lighting is regulated by pH, and the method of the interaction of VISTA with this lighting is regulated by pH. and the method of the interaction of VISTA with this lighting is the before the interaction of the in reprograms macroprages towards resucces production of promismitandary Cyto-kines and increased production of interfexion (I)-U1 and other anti-influence and production of the proving the production of the prod shance antitumor immune responses. We review differences among VISTA erapeutics under development as candidate immunotherapies, focusing on VISTA binding partners and the unique structural features of this interaction.

VISTA: How This B7 Protein Might Transform Cancer Immunotherapy

ig the programmed cell death protein 1 (PD-1)/ programmed VISTA is part death-ligand 1 (PD-L1) immune checkpoint (see Glossan) pathway. As recent research deepens our understanding of V-domain (g suppressor of T cell activation (VSTA), the VISTA signaling pathway has increasingly become a promining target for overcoming resistance to arresearch arresearch activity of the second seco signaling pathway has increasingly become a promining target for overcoming relatations to current immune checkpoint thrapping (1). Althrough the development of VISTA blocking antibodies has not neached fututo clinically, this reverve highlights the new teatures of VISTA that make this pathway particulary attractive for transposed conditionment. We docused with the expression on immune cells in the turnor microarrivement (ME), (i) the biological functions, and bidirectional signaling pathways of VISTA in marminalism in hyphochyst and migration cells. Use it for a and bidirectional signaling pathways of VISTA in marminalism in hyphochyst and migration cells. and observations singli and paintings of various in manmatice main productions, (ii) the structure features of VISTA that contribute to its minimum reactions, (iv) current VISTA monoclonal antibocies (mAba) that are in clinical development, and (i) the candidate druggable targets that regulate the [PH of the TIME and which in turn might affect VISTA activity in vivo. This review gives a dataled picture of VISTA structure in the context of its binding partners and therapeutic antibodies targeting VISTA.

VISTA Structure

VISTA ato known as PD-1H, 87-H5, Dies 1, 624, DD1c, and C10orf54, is encoded by the VSIR gene in human (Mri m mouse) and has multiple unique features, including its interaction with two receptors that bird to overlapping but deticict sites on the VISTA atomicalitar domain (ECD) [2–4]. VISTA is a type I transmembrane protein that was identified by mRNA analysis of activated versus neutral models and the standard standard

Trends in Immunology, March 2021, Vol. 42, No. 3 Mag. 0 2021 The Authority, Published by Elsevier Ltd. This is an open access anticle under the CC 8Y-NC-ND Scense (http://courtee.com

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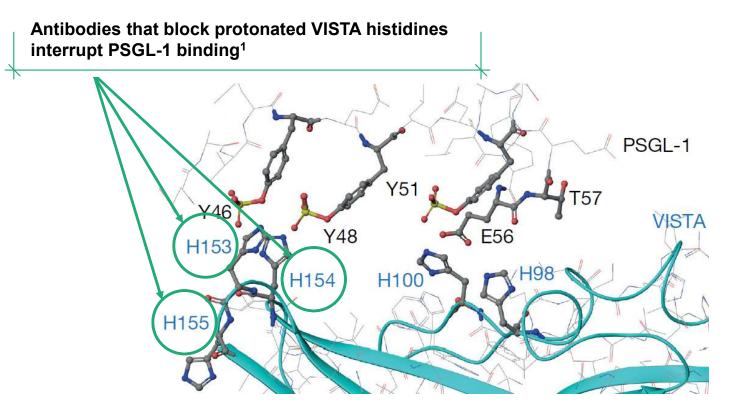
Key to Unlocking the Power of VISTA

- 1. Block the pH-dependent binding of VISTA to PSGL-1 on T cells at low pH
- 2. Selectively bind VISTA at low pH to avoid:
 - target mediated drug disposition (TMDD)
 - on-target/off-tumor side effects
- 3. Utilize an Fc-competent IgG backbone to engage and activate FcVR on tumor-infiltrating myeloid cells





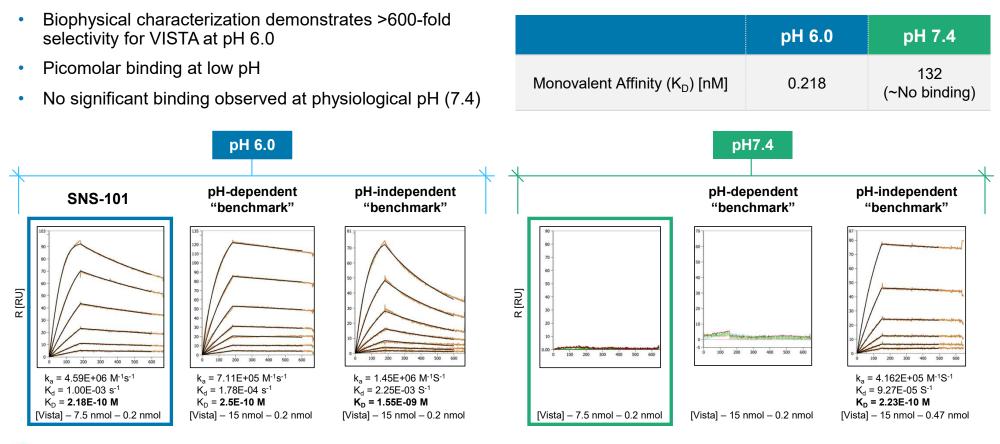
VISTA Checkpoint is Activated at the Low pH of the Tumor Microenvironment



- VISTA's extracellular domain is uniquely rich in histidines¹
- Histidines are protonated at low pH enabling VISTA to distinguish the active (acidic pH) and inactive (neutral pH) PSGL-1 binding interface



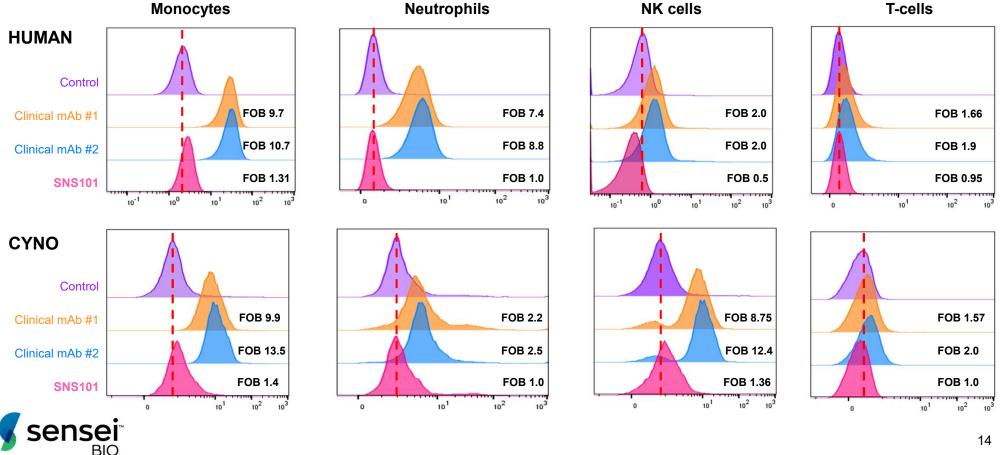
SNS-101 Has >600-Fold Selectivity for VISTA^{pH6}





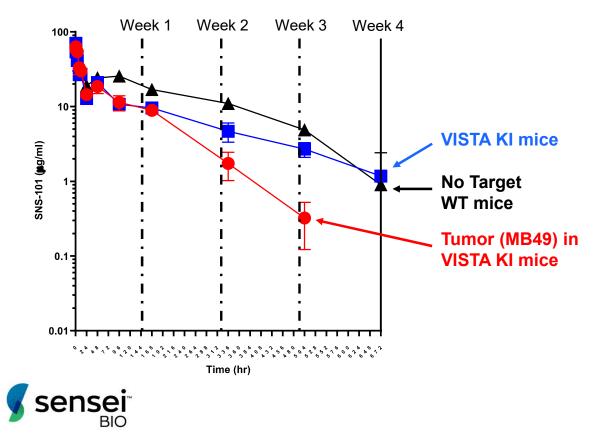
SITC 2021: Poster titled: Antagonistic pH-selective VISTA antibody SNS-101 potentiates anti-PD-1/PD-L1-induced anti-tumor immunity.

No Significant Binding of SNS-101 to Monocytes, Neutrophils, NK Cells and T-cells in Whole blood at Physiological pH



SNS-101 Displays a Favorable PK Profile No significant TMDD in human VISTA KI mice

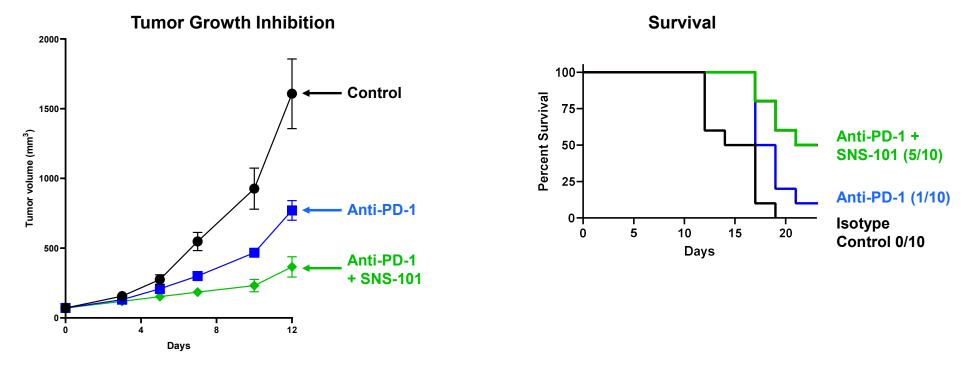
Pharmacokinetics of Single Dose 5 mg/kg SNS-101 in VISTA Knock-in Mice



Demonstrated a long mean residence time in the blood, indicating a lack of significant target-mediated drug disposition (TMDD) and clearance in non-malignant tissues

SNS-101 Demonstrates Activity in a PD-1 Resistant Syngeneic Tumor Model

SNS-101* in Combination with Anti-mouse PD-1





*SNS-101 was grafted on to a mouse IgG2a framework to decrease anti-drug antibody production

16

SNS-101 Is a Differentiated Anti-VISTA Antibody

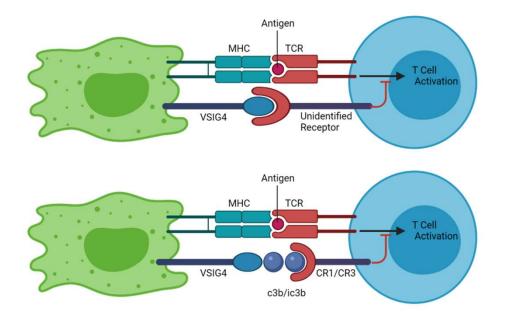
TMAb Platform

	SNS-101 Sensei BIO	VISTA.18 (BMS)	KVA12.1 (Kineta)	CI-8993; JNJ-61610588 (J&J/Curis)	K01401-020; W0180 (Pierre Fabre)	HMBD-002 (Hummingbird)
Inhibit PSGL-1 Binding	Yes	Yes	unknown	Yes	unknown	No
pH Sensitive Binding	Yes	Yes	No	No	No	No
Fc Active	Yes (IgG1)	No (IgG4)	Yes (lgG1)	Yes (lgG1)	N/A	No (lgG4)
Stage	Preclinical	Preclinical	Preclinical	Phase I	Phase I	Phase I
Clinical Data / Notes	 Demonstrated activity in preclinical models Demonstrated potential for best-in-class safety profile and PK in mouse model IND-enabling studies underway 	• N/A	• N/A	 JNJ initiated Phase I study in 2016 12 pts enrolled; initial dose 0.005 mg/kg Only patient treated at 0.3 mg/kg experienced grade 3 CRS-associated encephalopathy; trial was halted Phase I ongoing 	Not published	Not published



Johnston et al, Nature, 2019; Kineta website; Snyder et al, AACR Annual Meeting 2016; Pierre Fabre website; Hummingbird website; Thakkar et al, J of Immunother Cancer, 2022

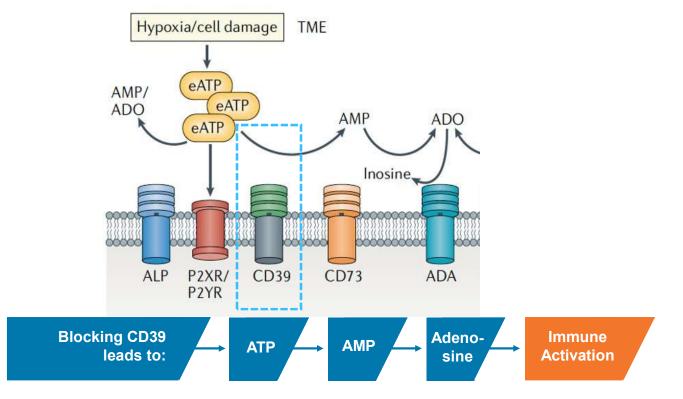
VSIG4 Plays a Critical Suppressive Role in T-cell Activation



- B7 family related protein
- Expressed primarily on macrophages and inhibits T-cell activation
- Generated first set of antibodies; currently screening



ENTPDase1 (CD39) is the Rate Limiting Enzyme in the Production of Immunosuppressive Adenosine



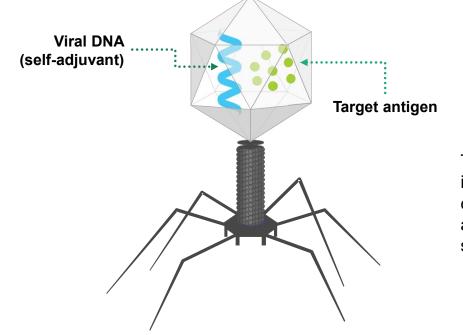
- Primary function is conversion of extracellular ATP / ADP to adenosine, which exerts immunosuppressive properties through binding to A2a/A2b receptors
- Expressed on various immune cells in both tumors and normal tissues
- Development of a TMAb antibody has potential for improved safety and PK profile compared to competitor CD39 mAbs



Generating Strong Antibody and T-cell Responses

ImmunoPhage[™] Platform

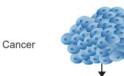
Bacteriophage virus is engineered and manufactured with both antigen and immune stimulatory viral DNA



The **ImmunoPhage**[™] bacteriophage is an icosahedron with a tail. This configuration can be viewed as an activating signal to the immune system



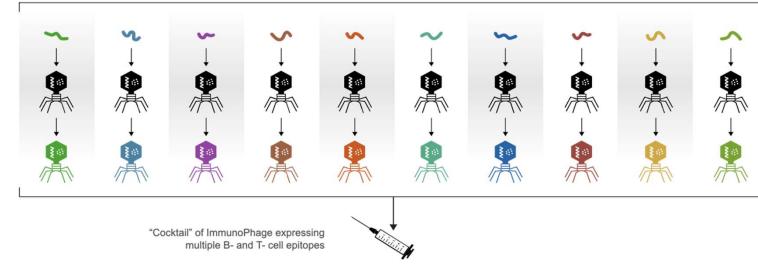
Phortress: Proprietary Library of Personalized Vaccine Cocktails with Off-the-Shelf ImmunoPhage "Ingredients"



Immunologically reactive B-and T-cell target epitopes

Bacteriophage λ

Genetically engineered bacteriophages each expressing distinct epitopes



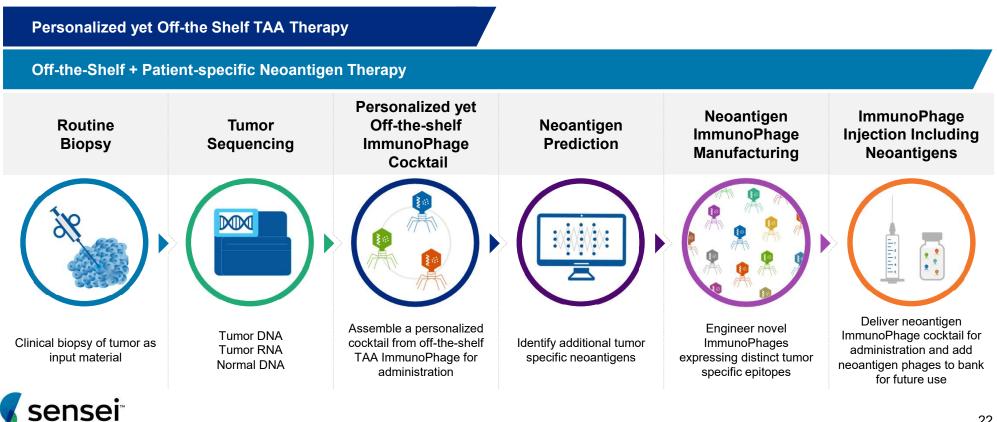
 These "cocktails" are defined by the disease or patient genetics



- Combinations are customized to cover multiple epitopes, protein domains or targets
- Each ImmunoPhage is pre-manufactured to target a discrete antigen

Personalized Immunotherapy Approach Could Accelerate Speed to **Treatment**

High speed and low cost-of-goods of ImmunoPhage allows a broader array of antigens



Expected Program Milestones

SNS-101 (anti-VISTA)

- 1H 2023: IND filing
- Mid-2022: Toxicology and PK data

SNS-102 (anti-VSIG4)

• 2023: Select product candidate / initiate IND-enabling studies

SNS-103 (anti-ENTPDase1/CD39)

• 2023: Select product candidate



Proven Team With Deep Experience



John Celebi, MBA President and CEO





Patrick Gallagher Acting Chief Business Officer



Bao Le VP, Regulatory



Robert Pierce, M.D. Chief R&D Officer

MERCK ROCHESTER FRED HUTCH



Elisabeth Colunio VP, Human Resources



Alice Drumheller VP, Clinical Operations



Erin Colgan Chief Financial Officer

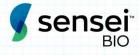




Edward van der Horst, Ph.D. SVP, TMAb Antibodies



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