



# Next Generation Immuno-Oncology Medicines

John K. Celebi, MBA

President & Chief Executive Officer

SEPTEMBER 2022 | Nasdaq: SNSE

## **Disclaimer**



This presentation has been prepared by Sensei Biotherapeutics, Inc. (the "Company," "we," "us") and is made for informational purposes only. The information set forth herein does not purport to be complete or to contain all of the information you may desire. Statements contained herein are made as of the date of this presentation unless stated otherwise, and neither the delivery of this presentation at any time, nor any sale of securities, shall under any circumstances create an implication that the information contained herein is correct as of any time after such date or that information will be updated or revised to reflect information that subsequently becomes available or changes occurring after the date hereof.

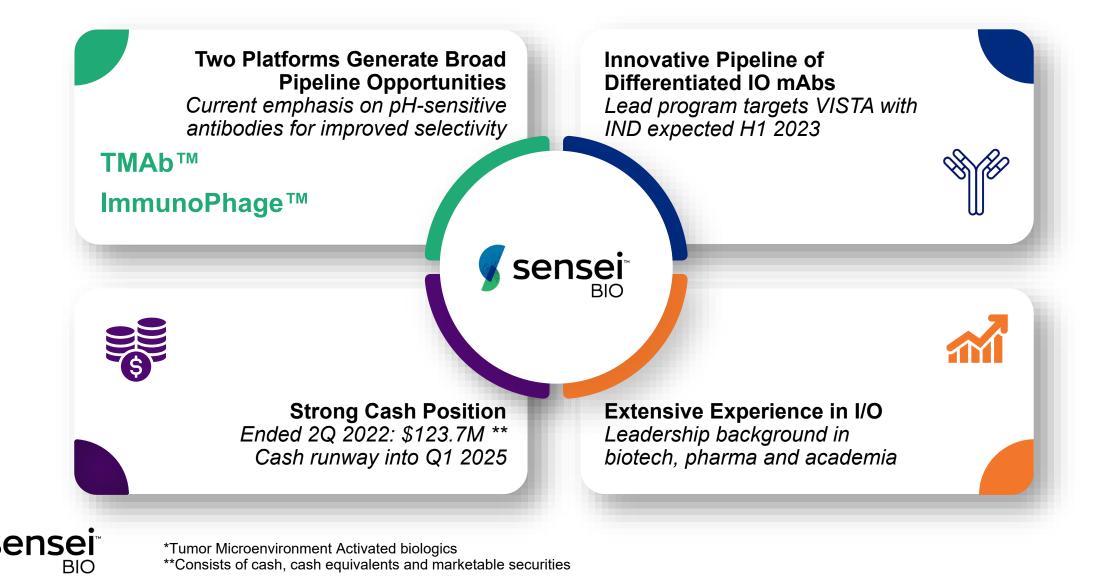
This presentation contains estimates and other statistical data made by independent parties and by us relating to market shares and other data about our industry. This presentation also contains "forward-looking" statements as that term is defined in the Private Securities Litigation Reform Act of 1995 that are based on our management's beliefs and assumptions and on information currently available to management. These forward-looking statements include, without limitation, expectations regarding the development of our product candidates and platforms, the availability of data from our preclinical studies, the timing of selection of product candidates, the timing of IND submissions to the FDA, and our belief that our existing cash and cash equivalents will be sufficient to fund our operations at least into the first quarter of 2025.

When used in this presentation, the words and phrases "designed to," "may," "believes," "intends," "seeks," "anticipates," "plans," "estimates," "expects," "should," "assumes," "continues," "could," "will," "future" and the negative of these or similar terms and phrases are intended to identify forward-looking statements. Forwardlooking statements involve known and unknown risks, uncertainties and other factors that may cause our actual results, performance or achievements to be materially different from any future results, performance or achievements expressed or implied by the forward-looking statements. Risks and uncertainties that may cause actual results to differ materially include uncertainties inherent in the development of therapeutic product candidates, such as preclinical discovery and development, conduct of clinical trials and related regulatory requirements, our reliance on third parties over which we may not always have full control, and other risk and uncertainties that are described in our Annual Report on Form 10-K filed with the SEC on March 15, 2022 and our other Periodic Reports filed with the SEC. Forward-looking statements represent our management's beliefs and assumptions only as of the date of this presentation and include all matters that are not historical facts. Our actual future results may be materially different from what we expect. Except as required by law, we assume no obligation to update these forward-looking statements publicly, or to update the reasons actual results could differ materially from those anticipated in the forward-looking statements, even if new information becomes available in the future.

Certain information contained in this presentation relates to, or is based on, studies, publications, surveys and other data obtained from third-party sources and the Company's own internal estimates and research. While the Company believes these third-party sources to be reliable as of the date of this presentation, it has not independently verified, and makes no representation as to the adequacy, fairness, accuracy or completeness of, any information obtained from third-party sources. In addition, all of the market data included in this presentation involves a number of assumptions and limitations, and there can be no guarantee as to the accuracy or reliability of such assumptions. Finally, while we believe our own internal research is reliable, such research has not been verified by any independent source.



# Positioned to Drive Value with Next Generation Product & Platform Development

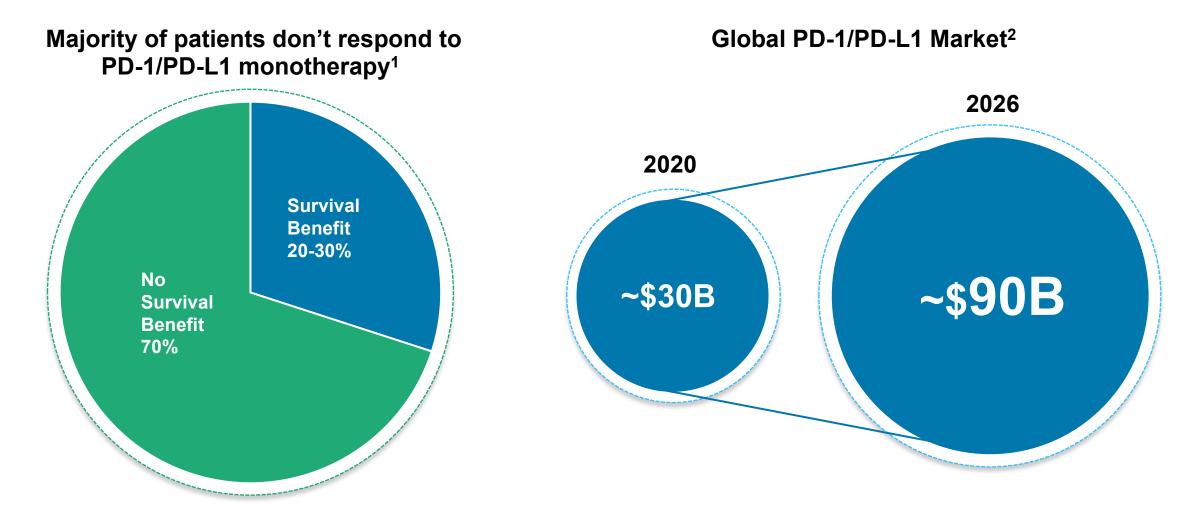


# Innovative Pipeline of IO Drugs with Broad Commercial Potential

	Program (Target)	Indication	Discovery	IND-enabling	Phase 1 / 2 Clinical
ТМАЬ	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





Gerber et al., Biochemical Pharmacology 2016
 Market estimates from PD-1 and PDL-1 Inhibitors Market Size in 2021 – MarketWatch, 360 Research

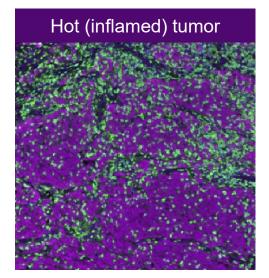
# Two Major Types of Non-Responders to PD-1 Blockade

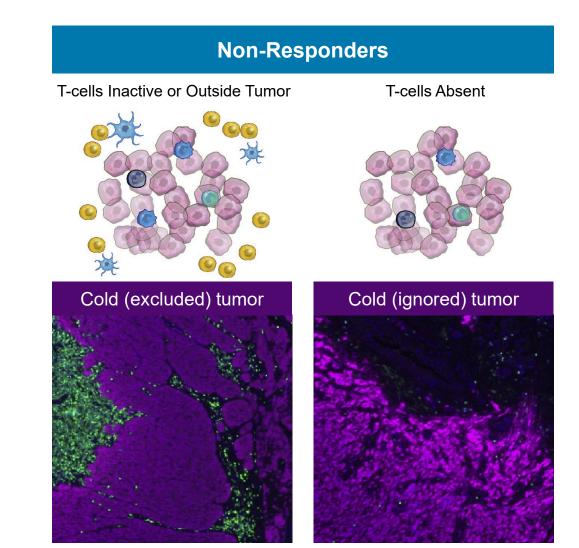
Anti-PD-1 or PD-L1 Treatment

### Responders

**T-cells Inside Tumor** 







Green = T-cells Purple = tumor

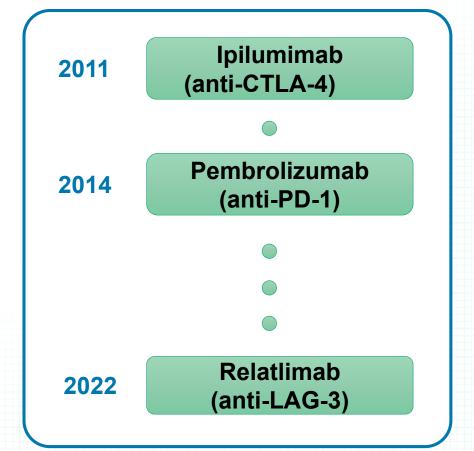


Adapted from Van der Woulde-LL, et al, Trends in Cancer, 2017

# The Challenge of Next Generation Checkpoint Blockade

- Few new classes of checkpoint blocking antibodies approved since landmark approvals of CTLA-4 and PD-1
- Antibodies blocking immune checkpoints are often limited by dose limiting toxicities that prevent maximal therapeutic outcomes
  - Immune checkpoints are frequently expressed in normal tissues, including monocytes, neutrophils, NK cells, and T cells
  - Antibodies may encounter a pharmacological "sink" in those tissues and drive on-target/off-tumor toxicity, preventing therapeutic concentrations at the tumor
- Conditionally active antibodies with enhanced targeting for tumors are needed to unleash the potential of immune targets
- pH-selective antibodies have demonstrated preferential biodistribution in tumors in mice, reduced toxicity in NHPs, and improved efficacy <sup>1</sup>

### Landmark Checkpoint mAb FDA Approvals

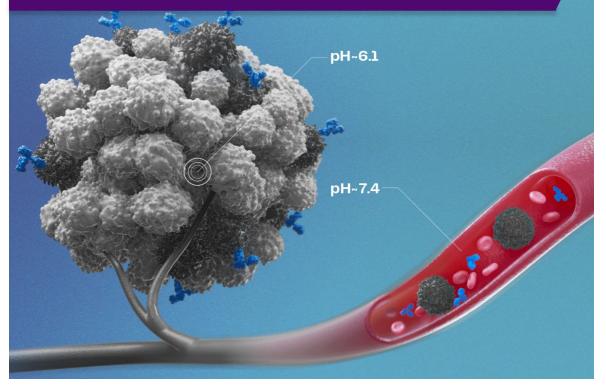




# pH-sensitive Antibodies Selectively Bind Their Targets in the Low-pH Tumor Microenvironment

### **TMAb Platform**

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



Sensei's technology identifies pH-sensitive antibodies designed to bind only at the tumor

- Antibodies that bind at physiological pH may encounter a "sink"
  - Prevents effective binding at the tumor and may lead to toxicity
- TMAb antibodies are expected to 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**

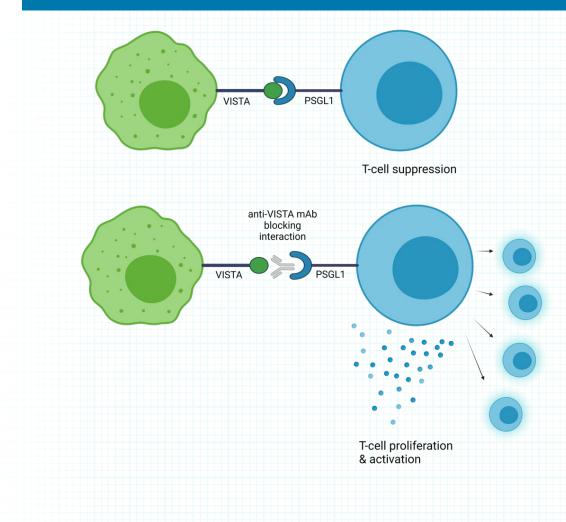
### Target Overview:

- B7 family ligand
- Extensive expression on myeloid cells<sup>1</sup> 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
- Unique tumor selective antibody

### VISTA is a Negative Regulator of T cell Function





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



#### **BRIEF COMMUNICATIONS**

#### VISTA is an inhibitory immune checkpoint that is increased after ipilimumab therapy in patients with prostate cancer

medicine

Jianjun Gao<sup>1</sup>, John F Ward<sup>2</sup>, Curtis A Pettawav<sup>2</sup>, Lewis Z Shi<sup>1</sup>, Sumit K Subudhi<sup>1</sup>, Luis M Vence<sup>3</sup>, Hao Zhao<sup>3</sup>, Jianfeng Chen<sup>1</sup>, Hong Chen3, Eleni Efstathiou1, Patricia Troncoso4, James P Allison3.5, ADT alone, although ADT monotherapy was associated with signifi-Christopher J Logothetis<sup>1</sup>, Ignacio I Wistuba<sup>6</sup>, Manuel A Sepulveda<sup>7</sup>, cantly higher levels of ICOS<sup>+</sup> and GrB<sup>+</sup> cells, which may represent Jingjing Sun<sup>3</sup>, Jennifer Wargo<sup>8</sup>, Jorge Blando<sup>3</sup> & Padmanee Sharma13,5

To date, anti-CTLA-4 (ipilimumab) or anti-PD-1 (nivolumab) monotherapy has not been demonstrated to be of substantial clinical benefit in patients with prostate cancer. To identify additional immune-inhibitory pathways in the prostate-tumor microenvironment, we evaluated untreated and ipilimumabtreated tumors from patients in a presurgical clinical trial. Levels of the PD-L1 and VISTA inhibitory molecules increased on independent subsets of macrophages in treated tumors. Our data suggest that VISTA represents another compensatory inhibitory pathway in prostate tumors after ipilimumab therapy. Fig. 4a). We focused our analyses on a subset of genes that repre-

therapies, that block T cell inhibitory pathways have led to durable Fig. 4b). Both PD-L1 and VISTA were previously reported as inhibitory antitumor responses and clinical benefit in a substantial number of molecules that can suppress murine and human T cell responses<sup>9,11</sup> understand the immune profile within prostate tumors and potential (Fig. 1c and Supplementary Fig. 5a). ompensatory immune inhibitory pathways that may arise in the set-We also evaluated metastatic tumors and blood samples from

sing inducible costimulator (ICOS), OX40, 4-1BB, PD-1, points in both localized and metastatic prostate cancer

CTLA-4, and FoxP3 (Supplementary Fig. 2a,b). We observed an increase in CD4<sup>+</sup> and CD8<sup>+</sup> T cells, including PD-1<sup>+</sup> and ICOS<sup>+</sup> subsets, after ipilimumab therapy, which is similar to our previous significantly higher PD-L1 expression on CD4+T cells, CD8+T cells findings with ipilimumab monotherapy in patients with melanoma and CD68+ macrophages after treatment (Supplementary Fig. 7a).

<sup>1</sup>Department of Genitourinary Medical Oncology, University of Texas MD Anderson Cancer Center, Houston, Texas, USA. <sup>2</sup>Department of Urology, University of Texas MD Anderson Cancer Center, Houston, Texas, USA. <sup>3</sup>The Immunotherapy Platform, University of Texas MD Anderson Cancer Center, Houston, Texas, USA Topachine of Publics, University of Tassi MD Advance. Cancer Center, Hostotha, Tass, USA. "Operating of Immunology, University of Tassi MD Advances Concer Center, Housen, Issa, USA. "Operating of Tassian Center Center, Hostocha, Tassa, USA. "Operating of Immunology, University of Tassi MD Advances Concer Center, Housen, Issa, USA. "Operating of Tassian Center Center, Tassian Center, Tassian, Center, Cente

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

NATURE MEDICINE \_VOLUME 23 | NUMBER 5 | MAY 2017

and bladder cancer<sup>6-8</sup>. We also compared post-treatment tumor tissues (Supplementary Fig. 1a) to those of stage-matched untreated tumors from another cohort of patients (Supplementary Fig. 1b). Flow cytometric studies revealed a significantly higher frequency of CD4+, CD8+, and ICOS+ T cells in the post-treatment tumors (Fig. 1a). Immunohistochemical (IHC) studies also demonstrated significant increases in tumor-infiltrating immune cells, including CD4+, CD8+, ICOS+, CD45RO+, granzyme-B (GrB)+, and CD68+ cells (Supplementary Fig. 3). We found significantly greater immune cell infiltration in prostate tumors after ipilimumab therapy but not after an activated T cell subset (Fig. 1b). Taken together, our data suggest that the immunologic changes in post-treatment tumors were mostly due to ipilimumab therapy, as opposed to ADT. However, we cannot discount a possible synergistic effect between ipilimumab and ADT. We did not observe clinical responses consisting of pathologic complete response, as we did previously for patients with bladder cancer8. To identify potential mechanisms that might explain this lack of response, we performed an unbiased gene expression study and found that ipilimumab therapy resulted in significant changes in the expression of a total of 690 genes (false discovery rate (FDR) < 0.2; P < 0.028; log2 (fold change) > 0.5)(Supplementary Table 3), most of which are related to immune responses (Supplementary sent inhibitory immune checkpoints and identified increased PD-L1 Immune checkpoint therapies, including anti-CTLA-4 and anti-PD-1 and VISTA expression in post-treatment tumors (Supplementary

patients with cancer<sup>1,2</sup>. However, prostate cancer has proven to be Here we found significantly greater protein expression of PD-1, poorly responsive to immune checkpoint monotherapy<sup>3–5</sup>. To better PD-L1, and VISTA in prostate tumors after ipilimumab therapy

ting of immune checkpoint monotherapy, we conducted a clinical trial patients with metastatic prostate cancer who took part in a separate 194271) with ipilimumab plus androgen-deprivation ther- clinical trial (NCT02113657) and received treatment with ipilimuapy (ADT) before surgery in patients with localized prostate cancer (Supplementary Fig. 1a-c and Supplementary Tables 1 and 2). tissues (Supplementary Fig. 5b) as well as on monocytes in blood We compared post-treatment and baseline blood samples (Supplementary Fig. 6a), which was similar to data from a mouse (Supplementary Fig. 1a), evaluating the levels of CD4+ and CD8+ model of prostate cancer (Supplementary Fig. 6b). We suggest that T cells (Supplementary Fig. 2a), as well as those of T cell subsets PD-L1 and VISTA are likely to be relevant inhibitory immune check-

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. Freeman2.\*

V-domain Ig suppressor of T cell activation (VISTA) is a B7 family member that Highlights maintains T cell and myeloid quiescence and is a promising target for combinaactivation (VISTA) binds to V-set tion cancer immunotherapy. During inflammatory challenges, VISTA activity and Ig domain-containing 3 (VSIG3) reprograms macrophages towards reduced production of proinflammatory cytoand P-selectin glycoprotein ligand kines and increased production of interleukin (IL)-10 and other anti-inflammatory 1 (PSGL-1) ligands, and signaling mediators. The interaction of VISTA with its ligands is regulated by pH, and the may be bidirectional. acidic pH ~6.0 in the tumor microenvironment (TME) facilitates VISTA binding VISTA binds to PSGL-1 at addic pH to P-selectin glycoprotein ligand 1 (PSGL-1). Targeting intratumoral pH might be a way to reduce the immunoinhibitory activity of the VISTA pathway and (TME), but not at physiological pH. enhance antitumor immune responses. We review differences among VISTA VISTA activity imposes quiescence or therapeutics under development as candidate immunotherapies, focusing on mammalian myeloid and naive T cells. VISTA binding partners and the unique structural features of this interaction. and inhibits T cell activation and cytokin

#### VISTA: How This B7 Protein Might Transform Cancer Immunotherapy Immunotherapy has become an established pillar of cancer treatment, in large part owing to

the success of blocking the programmed cell death protein 1 (PD-1)/ programmed VISTA is particularly upregulate death-ligand 1 (PD-L1) immune checkpoint (see Glossary) pathway. As recent research deepens our understanding of V-domain Ig suppressor of T cell activation (VISTA), the VISTA signaling pathway has increasingly become a promising target for overcoming resistance to current immune checkpoint therapies [1]. Although the development of VISTA blocking antibodies has not reached fruition clinically, this review highlights the new features of VISTA tion, as well as by reprogramming mys that make this pathway particularly attractive for therapeutic development. We discuss (i) VISTA expression on immune cells in the tumor microenvironment (TME), (ii) the biological functions and bidirectional signaling pathways of VISTA in mammalian lymphocytes and myeloid cells, (TNF)-g, and IL-12, and increases (iii) the structural features of VISTA that contribute to its molecular interactions. (iv) current VISTA monoclonal antibodies (mAbs) that are in clinical development, and (v) the candidate druggable targets that regulate the pH of the TME and which in turn might affect VISTA activity in vivo. This review gives a detailed picture of VISTA structure in the context of its binding partners clinical development for treating some and therapeutic antibodies targeting VISTA.

#### VISTA Structure

Trends in

Immunology Feature Review

ell with VISTA or checkpoint blockadi VISTA, also known as PD-1H, B7-H5, Dies1, Gi24, DD1g, and C10orf54, is encoded by the VSIR therapies. gene in human (Vsir in mouse) and has multiple unique features, including its interaction with two receptors that bind to overlapping but distinct sites on the VISTA extracellular domain (ECD) [2-4]. VISTA is a type I transmembrane protein that was identified by mRNA analysis of activated versus resting mouse natural regulatory T cells (Tregs) [5] and also by homology to coinhibitory molecules such as PD-1 [6]. VISTA bears features of both the B7 and CD28 families of immuno-Medical School, Boston, MA 02115, <sup>1</sup>Program in Immunology Hapy regulatory molecules and can act as both a ligand and a receptor [3,7,8]. The VISTA ECD is most USA homologous to the B7 family, which includes well-known immune checkpoint ligands such as <sup>2</sup>Department of Medical Oncology, Data-Farber Cancer Institute, Harv PD-L1 (Figure 1C). Whereas other B7 family members have an IgV-like and IgC-like domain, Medical School, Boston, MA 02215, mouse and human VISTA contain a single unusually large IgV-like domain (Figure 1A) [2]. VISTA USA



Trends in Immunology, March 2021, Vol. 42, No. 3 https://doi.org/10.1016/j.1.2020.12.009 209 0 2021 The Author(k), Published by Elsevier Ltd. This is an open access article under the CC BY-NC-ND locense (http://oradfvecommore.org/licenses/by-nc-nd/4.0).

Ce Press

such as in the tumor micr

T cell disath.

production. It can promote peripheral to

on myeloid-derived suppressor cell

of myeloid cells by reducing Toll-like

receptor (TLR) signaling and cell migra

Inid cells towards reduced penduction

leukin (IL)-6, turnor necrosis factor

production of IL-10 and other anti

onistic VISTA antibodies are i

ancers: drugs that target the acidity of the TME might reduce immuncimbilitor

activity in addic niches and combine

inflammatory mediators.

(MDSCs) via hypoxia, and can contrib

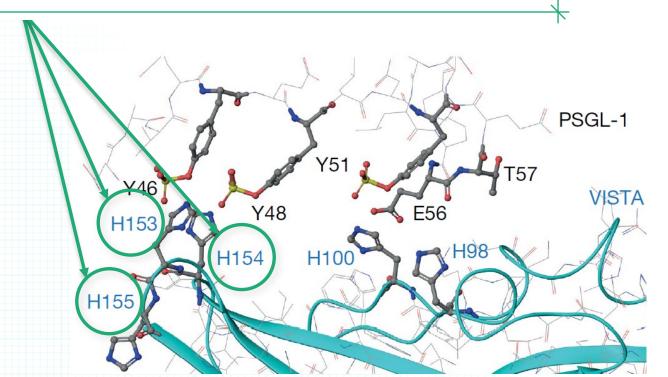
ute to the immunoinhibitory func

### CelPress cience that inspires



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

Antibodies that block protonated VISTA histidines interrupt PSGL-1 binding<sup>1</sup>



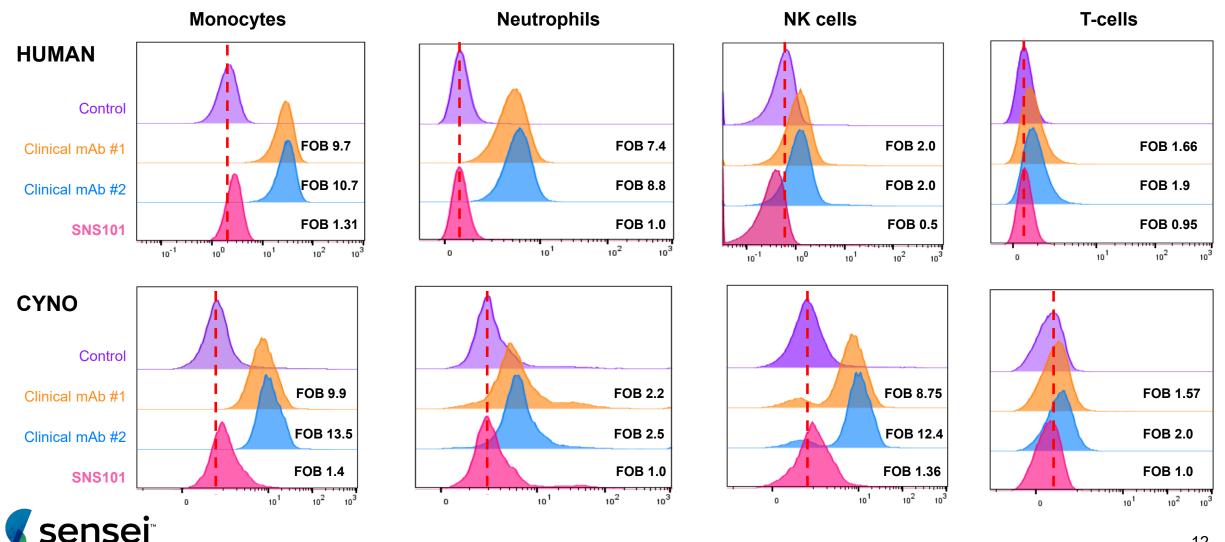
- VISTA's extracellular domain is uniquely rich in histidines<sup>1</sup>
- Histidines are protonated at low pH enabling VISTA to distinguish the active (acidic pH) and inactive (neutral pH) PSGL-1 binding interface
- SNS-101 Has >600-Fold Selectivity for Active VISTA<sup>pH6</sup>

	рН 6.0	рН 7.4
Monovalent Affinity (K <sub>D</sub> ) [nM]	0.218	132 (~No binding)

nsei

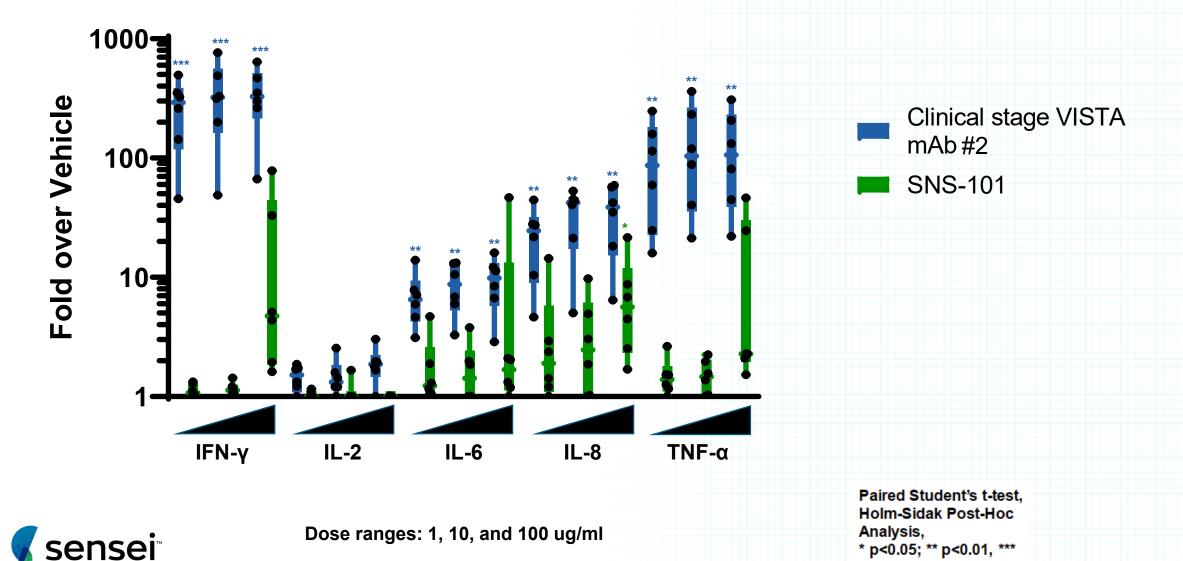
BIO

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



BIO

# SNS-101 Induced Substantially Lower Cytokine Release in Whole-blood Assay at Neutral pH Compared to pH-independent VISTA Antibody



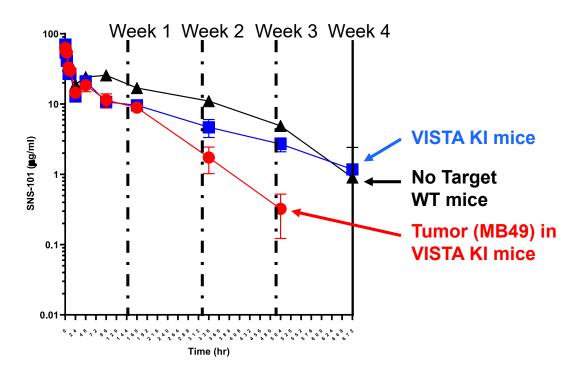
BIO

13

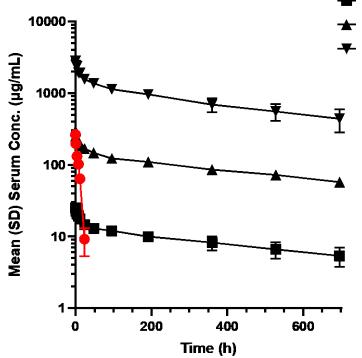
p<0.001, \*\*\*\* p<0.0001

## SNS-101 Has Displayed a Favorable PK Profile in Preclinical Studies No Significant TMDD in Human VISTA KI Mice or Single-dose Cyno Monkeys

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 Pharmacokinetics of Single Dose SNS-101 in Cyno monkeys

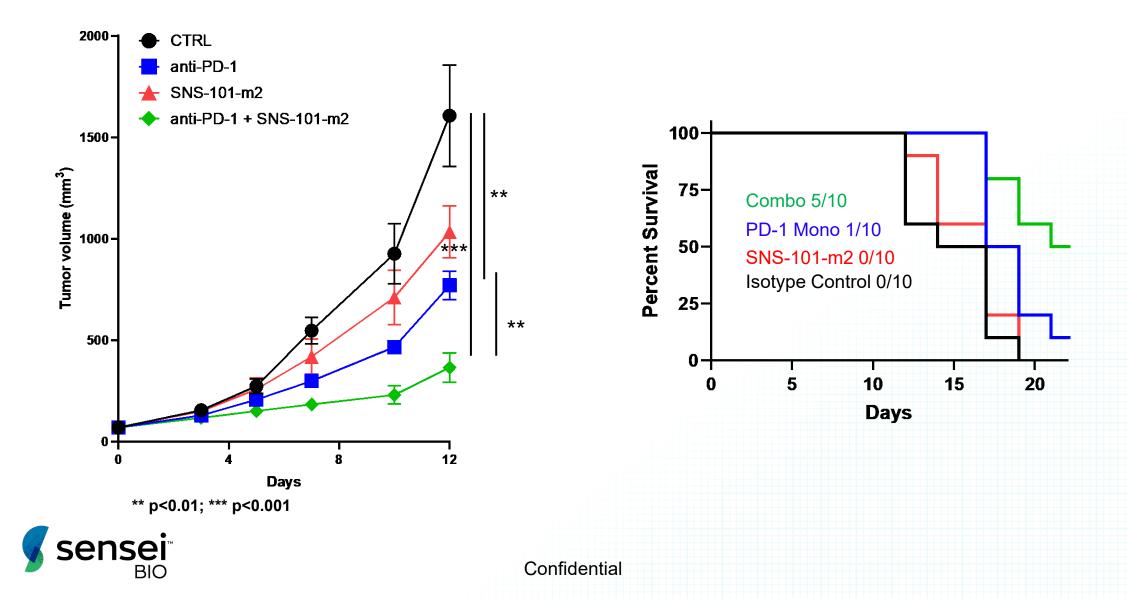


Clinical mAb #1 10 mg/kg

- SNS-101 1 mg/kg
- ★ SNS-101 10 mg/kg
- SNS-101 100 mg/kg

SNS-101 displays linear elimination kinetics (compared to a pH-independent anti-VISTA mAb, which demonstrates TMDD and rapid clearance)

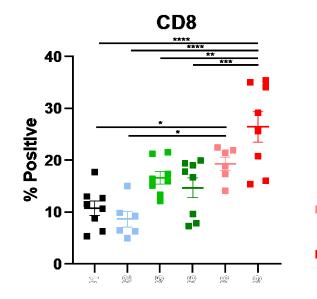
## SNS-101 Demonstrates Strong Combinatorial Activity with Anti-PD-1 in MC38 Model in Human VISTA Knock-in Mice



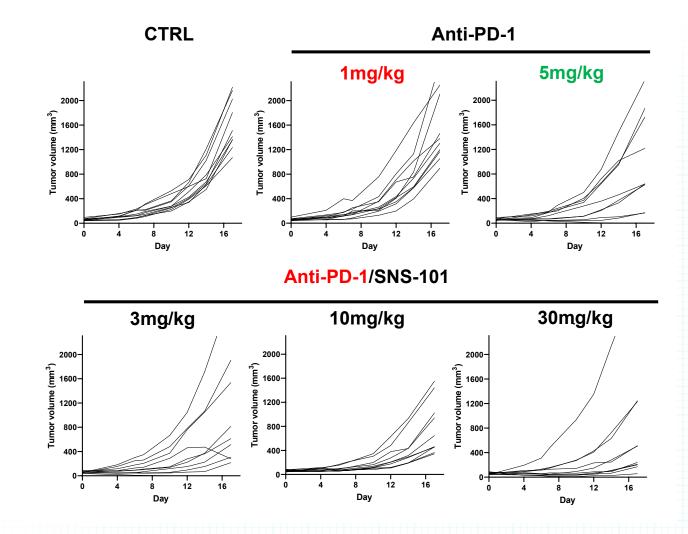
15

# SNS-101 Demonstrates Increased CD8 T-cells in Combination With Anti-PD-1

Frequency of Live, CD45+ Population One-way ANOVA, Tukey Post-Hoc Analysis, \* p<0.05; \*\* p<0.01, \*\*\* p<0.001, \*\*\*\* p<0.0001



- Isotype Control
- $\alpha$ PD-1- 1 mg/kg
- SNS-101- 10 mg/kg
- SNS-101- 30 mg/kg
- SNS-101- 10 mg/kg with Anti-PD-1
- SNS-101- 30 mg/kg with Anti-PD-1





# 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
- Utilize an Fc-competent IgG backbone to engage and activate FcYR on tumor-infiltrating myeloid cells





# **SNS-101 Is a Differentiated Anti-VISTA Antibody**

### **TMAb Platform**

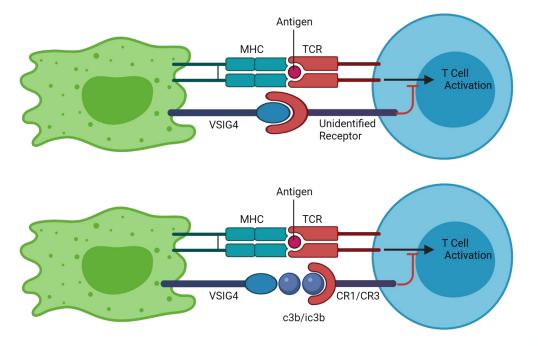
	SNS-101 Sensei <sup>-</sup> BIO	VISTA.18 (BMS)	KVA12.1 (Kineta)	CI-8993; JNJ-61610588 (J&J/Curis)	K01401-020; W0180 (Pierre Fabre)	HMBD-002 (Hummingbird)
Inhibit PSGL-1 Binding	Yes	Yes	unknown	Yes	unknown	No
pH Sensitive Binding	Yes	Yes	No	No	No	No
Fc Active	Yes (lgG1)	No (lgG4)	Yes (IgG1)	Yes (IgG1)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

We believe that VSIG-4 is best targeted through a TMAb-based approach as high Kupffer cell expression appears to drive significant target-mediated drug disposition (TMDD) and clearance in the liver



Adapted from Zang et al., J Clin Invest. 2006

- B7 family related protein, also known as CRIg (complement receptor Immunoglobulin)
- Expressed primarily on macrophages, including tumor-associated macrophages (TAMs) and Kupffer cells
- VSIG-4 correlates with "M2" macrophages infiltration and poor prognosis in multiple tumor types
- Important role in phagocytosis of complementopsonized pathogens, particularly by Kupffer cells
- Strong inhibitor of T-cell activation
- VSIG4 knock-out mice demonstrate inhibited tumor growth in a syngeneic Lewis lung carcinoma model

See references in Appendix



# Sensei Has Identified pH-sensitive VSIG4 Antibodies

Antibody Reference #	Ratio of pH Selectivity (6.0 vs 7.4)	Blockage of Immobilized VSIG4- T-cell Inhibition	Cellular VSIG4-
1	1	+	+
2	7	+	+
3	1	+	+
4	3	+	+
5	3	+/-	+
6	25	+	+
7	1	+	+
8	2	-	+

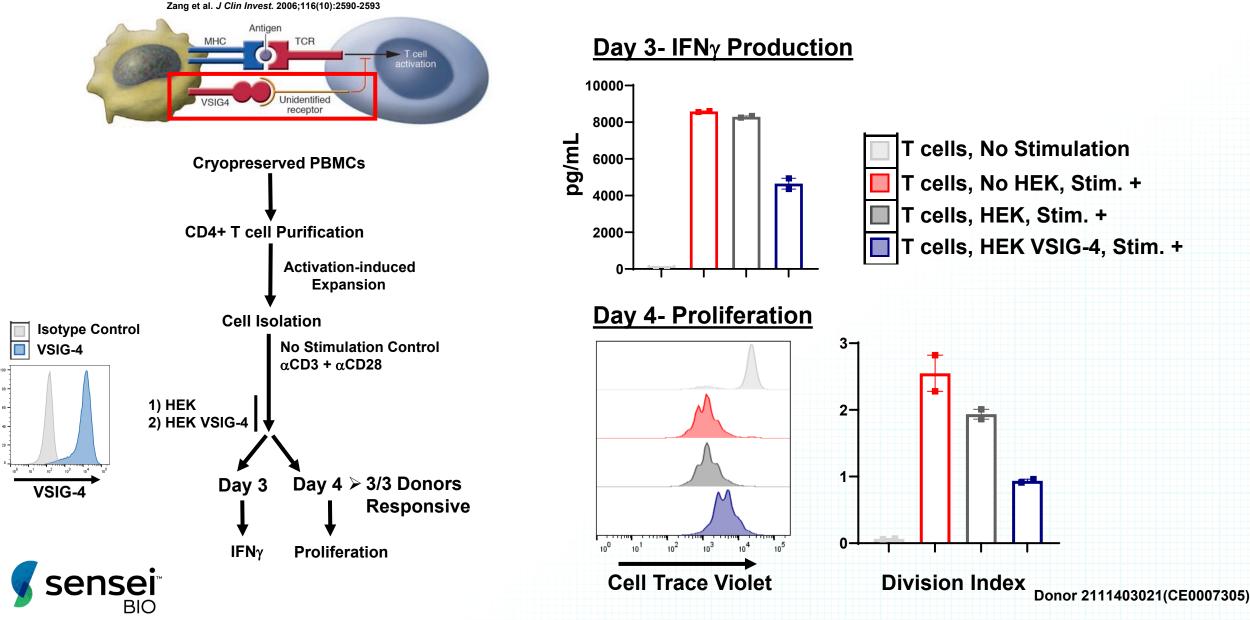
### pH-Sensitive VSIG4 Parental Antibodies Selected for Further Optimization

- As of August 2022, Sensei has:
  - Identified 8 parental antibodies for further optimization;
  - Identified novel VSIG4 receptors on primary T-cells by Hi-Res proteomics, which are currently in verification stage;
  - Identified pH-sensitive antibodies highlighting the potential breadth of the TMAb platform
- Plan to select product candidate & initiate IND-enabling studies in 2023

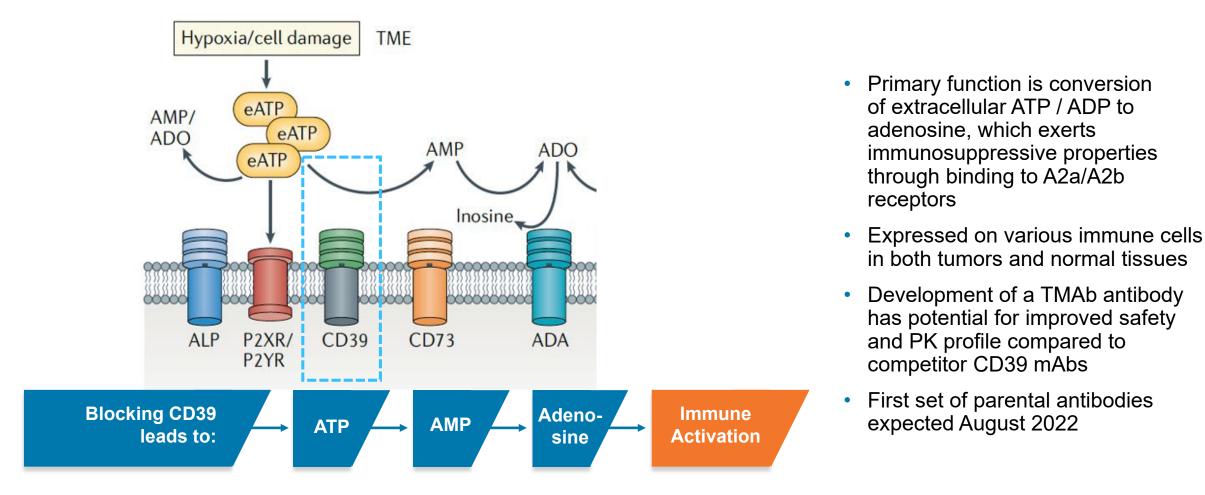
P.F.; poor fit; N.B; not binding,

\* Ratio assessed by flow cytometry on VSIG4 overexpressing cells

## Cell Surface Expressed VSIG-4 Suppresses Primary Human T-cell Activation



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





# **Expected Program Milestones**

### SNS-101 (anti-VISTA)

- 1H 2023: Multi-dose Non-Human Primate (NHP) PK & Toxicology data
- 1H 2023: IND filing

### 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 Chief Business Officer



HansPeter Waldner, Ph.D. SVP, Cancer Immunology



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

MERCK ROCHESTER FRED HUTCH



Elisabeth Colunio VP, Human Resources



**Christopher Gerry, J.D.** VP, General Counsel



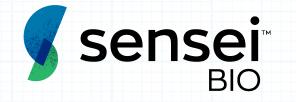
Erin Colgan Chief Financial Officer





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





HQ: 451 D St, Unit 710 , Boston, MA 02210 / MD: 1405 Research Blvd, Suite 125, Rockville, MD 20850

senseibio.com

# Appendix

### References for Slide 19

- Zheng F, Devoogdt N, Sparkes A, Morias Y, Abels C, Stijlemans B, Lahoutte T, Muyldermans S, De Baetselier P, Schoonooghe S, Beschin A, Raes G. Monitoring liver macrophages using nanobodies targeting Vsig4: concanavalin A induced acute hepatitis as paradigm. Immunobiology. 2015 Feb;220(2):200-9. doi: 10.1016/j.imbio.2014.09.018. Epub 2014 Oct 2. PMID: 25440182.
- 2. Reviewed in Zang X, Allison JP. To be or not to be B7. J Clin Invest. 2006 Oct;116(10):2590-3. doi: 10.1172/JCI30103. PMID: 17016555; PMCID: PMC1578606.
- Helmy KY, Katschke KJ Jr, Gorgani NN, Kljavin NM, Elliott JM, Diehl L, Scales SJ, Ghilardi N, van Lookeren Campagne M. CRIg: a macrophage complement receptor required for phagocytosis of circulating pathogens. Cell. 2006 Mar 10;124(5):915-27. doi: 10.1016/j.cell.2005.12.039. PMID: 16530040.
- Voillet V, Berger TR, McKenna KM, Paulson KG, Tan WH, Smythe KS, Hunter DS, Valente WJ, Weaver S, Campbell JS, Kim TS, Byrd DR, Bielas JH, Pierce RH, Chapuis AG, Gottardo R, Rongvaux A. An In Vivo Model of Human Macrophages in Metastatic Melanoma. J Immunol. 2022 Aug 1;209(3):606-620. doi: 10.4049/jimmunol.2101109. Epub 2022 Jul 11. PMID: 35817516; PMCID: PMC9377377.
- Reviewed in Small AG, Al-Baghdadi M, Quach A, Hii C, Ferrante A. Complement receptor immunoglobulin: a control point in infection and immunity, inflammation and cancer. Swiss Med Wkly. 2016 Apr 5;146:w14301. doi: 10.4414/smw.2016.14301. PMID: 27045607.
- Liu G, Fu Y, Yosri M, Chen Y, Sun P, Xu J, Zhang M, Sun D, Strickland AB, Mackey ZB, Shi M. CRIg plays an essential role in intravascular clearance of bloodborne parasites by interacting with complement. Proc Natl Acad Sci U S A. 2019 Nov 26;116(48):24214-24220. doi: 10.1073/pnas.1913443116. Epub 2019 Nov 13. PMID: 31723045; PMCID: PMC6883839.
- Vogt L, Schmitz N, Kurrer MO, Bauer M, Hinton HI, Behnke S, Gatto D, Sebbel P, Beerli RR, Sonderegger I, Kopf M, Saudan P, Bachmann MF. VSIG4, a B7 family-related protein, is a negative regulator of T cell activation. J Clin Invest. 2006 Oct;116(10):2817-26. doi: 10.1172/JCI25673. PMID: 17016562; PMCID: PMC1578631.
- Liao Y, Guo S, Chen Y, Cao D, Xu H, Yang C, Fei L, Ni B, Ruan Z. VSIG4 expression on macrophages facilitates lung cancer development. Lab Invest. 2014 Jul;94(7):706-15. doi: 10.1038/labinvest.2014.73. Epub 2014 May 26. PMID: 24862966.

