



Corporate Presentation May 2024

Nasdaq: TSBX

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Mike Mielnik Senior Scientist, Turnstone Biologics

OUR MISSION

Profoundly transform the treatment paradigm for patients with a broad range of solid tumors with next-generation TIL therapies that overcome the limitations of current treatment options



Solid Tumors Represent a Serious Unmet Medical Need

Approximately 90% of all new cancers per year are solid tumors

In the U.S. Each Year

1.6M

new cancer patients¹

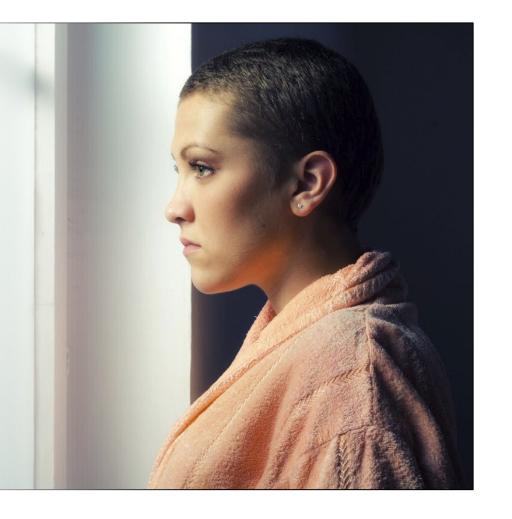
500K

deaths with low long-term survival¹ 90%+

mortality in metastatic disease²

New Therapeutic Options Urgently Needed

Checkpoint inhibitors only benefit a fraction of cancer patients³ Targeted and other cell therapies have shown only limited success One FDA approved TIL therapy and only in advanced melanoma⁴

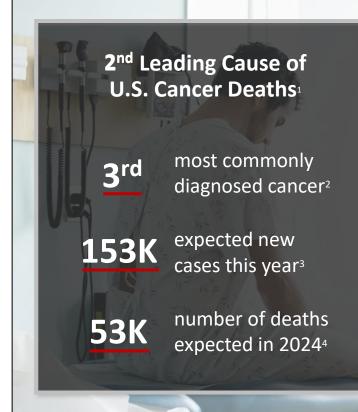


⁴United Stated Food and Drug Association (US FDA) approval granted on 02/16/2024; News release

Turnstone is Tackling Solid Tumors of Greatest Need

Our focus is on CRC, HNSCC, uveal melanoma, breast cancer, and cutaneous melanoma

Indication Spotlight: Colorectal Cancer (CRC)



Difficult-To-Treat Tumor
Unresponsive To Most
Immune-Based Therapies

Immunologically "cold"
tumor characterized by
low tumor mutational
burden (TMB)



We believe the key to overcoming challenges of CRC and other "cold" tumors is large numbers of on-target tumor-reactive T cells which is the foundation for Turnstone's approach of Selected TIL therapy



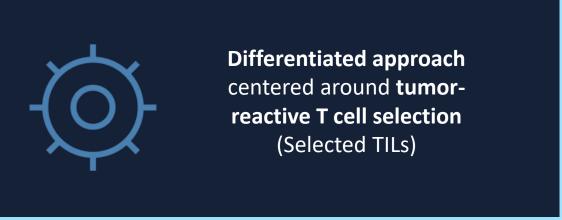
¹American Cancer Society. Cancer Facts & Figures 2024; ²CA: A Cancer Journal for Clinicians – Colorectal Cancer Statistics, 2023 – DOI: 10.3322/caac.21772;

^{3, 4}National Cancer Institute's Surveillance, Epidemiology, and End Results (SEER), accessed March 2024

Turnstone is Pioneering Advancements in Selected TIL Therapy

Next-generation therapy designed to treat and cure solid tumors











Turnstone Executive Team

Proven experience across all areas and stages of drug development



Sammy Farah, MBA, PhD Chief Executive Officer

- 20+ years of scientific, business and executive management experience in biotech industry
- Held senior positions at Merck, Immune Design, and Synthetic Genomics
- Previously at Versant **Ventures** specializing in biotechnology investing and new company formation





Stewart Abbot, PhD Chief Scientific Officer

- 20+ years of R&D experience in cell-based and immuno-oncology products
- Former CSO and COO at Adicet Bio, responsible for R&D activities for allogeneic gamma delta T cell therapies
- Previously CDO at Fate Therapeutics, developing cellular immunotherapies





Saryah Azmat Chief Business Officer

- 10+ years of experience in biopharma business development, corporate strategy and capital formation
- Former Global Lead for Oncology Search & Evaluation at **Bristol**-Myers Squibb, executing over 15 major transactions from preclinical to clinical development





Mike Burgess, MBChB, PhD Interim Chief Medical Officer Interim Chief Technology Officer



manufacturing and

process development

Vijay Chiruvolu, MBA, PhD

- Venkat Ramanan, PhD **Chief Financial Officer** • 27+ years of 20+ years of biopharma
- experience Joined from Seagen Served as SVP of Global where he led the Process Development-Finance function as the Cell Therapy at **Kite** company launched several products, Pharma/Gilead **Sciences**, responsible for expanded global the CMC/process footprint and executed development leading to multiple strategic regulatory approval of transactions two cell therapy



- Led strategy and execution of translational medicine across all therapeutic areas as SVP of Cardiovascular, Fibrosis and Immunoscience Development at **Bristol**-Myers Squibb
- Previous Global Head of Oncology Research and Early Development at Roche







products, Yescarta and

Tecartus





finance and operations

experience



Turnstone External Network

Supported by prominent scientific and corporate advisors and collaborators

Key Collaborators



James Mulé, PhD
Associate Center Director of Translational Science
Moffitt Cancer Center



Steven A. Rosenberg, MD, PhD
Chief of Surgery Branch
National Cancer Institute



Simon Turcotte, MD, MSc
Associate Professor of Surgery;
Lead of Adoptive T Cell Cancer Immunotherapy Program,
University of Montreal Hospital Research Centre (CRCHUM)

Distinguished Advisors



Malcolm Brenner, MD, PhD
Professor, Center for Cell and Gene Therapy
Baylor College of Medicine



Thomas Dubensky Jr., PhD
Founder and Advisor
Tempest Therapeutics



Bernard Fox, PhD
Chief, Laboratory of Molecular
and Tumor Immunology
Providence Cancer Institute



Adrian Hill, PhD
Director, The Jenner Institute
University of Oxford



Alan Melcher, PhD

Team Leader

Translational Immunology
The Institute of Cancer Research



Nicholas Restifo, MD
Special Volunteer
National Institutes of Health



Robert Seder, MD

Chief, Cellular Immunology Section
Vaccine Research Center
National Institutes of Health



Eric Tran, PhD

ACT Laboratory Lead

Providence Cancer Institute



Jeffrey S. Weber, MD, PhD
Deputy Director, PCC;
Co-Director, Melanoma
Research Program
NYU-Langone Cancer Center



Tassos Gianakakos, MBA Former CEO MyoKardia



Turnstone Pipeline

Opportunity to address broad set of solid tumor patient populations

	Program	Product Overview	Key Indications	Preclinical	Phase 1	Phase 2	Phase 3	Next Anticipated Milestone
Selected TILs	TIDAL-01	Tumor-reactive Selected TILs	Breast cancer; CRC; HNSCC; Uveal melanoma			Initial clinical data in mid-2024		
		Tumor-reactive selected files	CRC; Cutaneous and non- cutaneous melanomas; HNSCC	Moffitt Collaborat	tion*			
		Combination with viral immunotherapy	Solid tumors					IND submission
	TIDAL-02	Selected TILs with next-gen manufacturing and TIL quality enhancements	Solid tumors					IND submission

^{*}Two concurrent investigator sponsored trials at Moffitt Cancer Center CRC = Colorectal cancer; HNSCC = Head and neck squamous cell carcinoma





SELECTED TILS AND TIDAL-01



Expanding the Frontiers of TIL Therapy

Building upon first-to-market TIL therapy to deliver differentiated product with unique market opportunity

First approval for a TIL therapy brings new option for solid tumors



Turnstone is developing the **Next-Generation of TIL Therapies**

Amtagvi is the first and only FDA-approved TIL therapy, and the only T cell therapy for a solid tumor Amtagvi is a first-generation bulk TIL therapy approved to treat only advanced melanoma*

Bulk TILs have failed to show success in most solid tumors outside melanoma

Significant opportunity for next-gen products

More targeted and potent tumor killing is a must

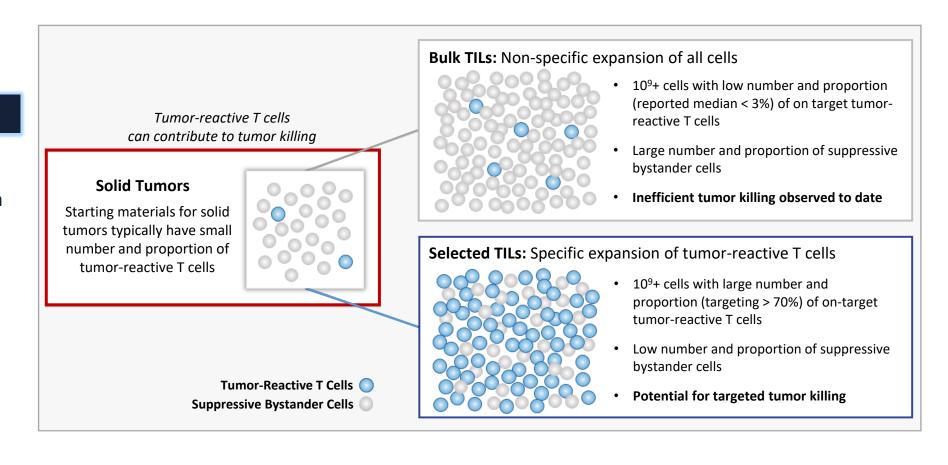
- Increasing total number of tumor-reactive T cells is key area of differentiation
- Academic studies provide early **clinical evidence** for selected TIL approach
- Potential to broaden efficacy into additional solid tumors with critical unmet need



Selected TILs Have Potential for More Targeted Tumor Killing

Selected TILs

- Next-generation TIL therapy based on isolation, selection and **expansion** of tumorreactive T cells to improve product potency¹
- Designed to address a broad range of solid tumor types

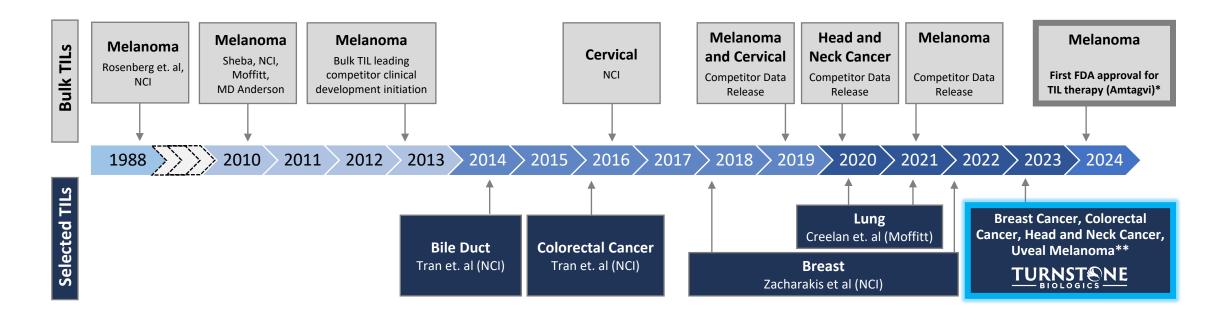


¹ We define potency as the specific ability or capacity of the product, as indicated by appropriate laboratory tests or by adequately controlled clinical data obtained through the administration of the product in the a given result

Selected TILs Are Based on Advances from Academia

Early academics working on first-generation TILs led to development of a leading Bulk TIL company's current process

⇒ Success to date has been limited to melanoma



Recent academic data in next-generation TILs has provided early clinical evidence for next-generation selected TIL approach

⇒ Objective responses extended to other major solid tumor types



Clinical Validation of Selected TILs

Historical data from the NCI demonstrates limited evidence of benefit of Bulk TILs in epithelial malignancies

	Tumor Type		Response	Source	
Bulk TILs	Various Solid Tumors (including Colorectal, Bile Duct, Pancreas, Breast, Gastric)	50+	No success	NCI – Rosenberg AACR 2020 / NCT01585428	

Early academic selection strategies1 deployed at the NCI have demonstrated clinical POC

	Tumor Type	N	Response	Source
	Bile Duct (Cholangiocarcinoma)	1	1 PR	NCI - Tran et al; Science 2014 Science
Academic	Colorectal Cancer	1	1 PR	NCI - Tran et al; NEJM 2016
Selected TILs	Non-Small Cell Lung Cancer	7*	2 CRs, 1PR	Moffitt - Creelan et al; Nature Medicine 2021 nature
	Breast Cancer	6†	1 CR, 2 PRs	NCI - Zacharakis et al; JCO 2022 Journal of Clinical Oncology*

^{*7} patients received TIL product with confirmed tumor-specific reactivity out of 13 patients who were evaluable for clinical response

¹ Early academic selection and enrichment strategies typically utilized fragment-based selection and expansion approaches. Following harvest and dissection of the tumor, small numbers of tumor fragments were placed into separate multi-well tissue culture dishes and cultured with the tumor or manufactured antigens. TIL populations that were activated by exposure to tumor antigens in culture would then be identified based on cytokine expression and/or T cell activation marker expression, and only those activated TIL populations would be expanded for use in the final product

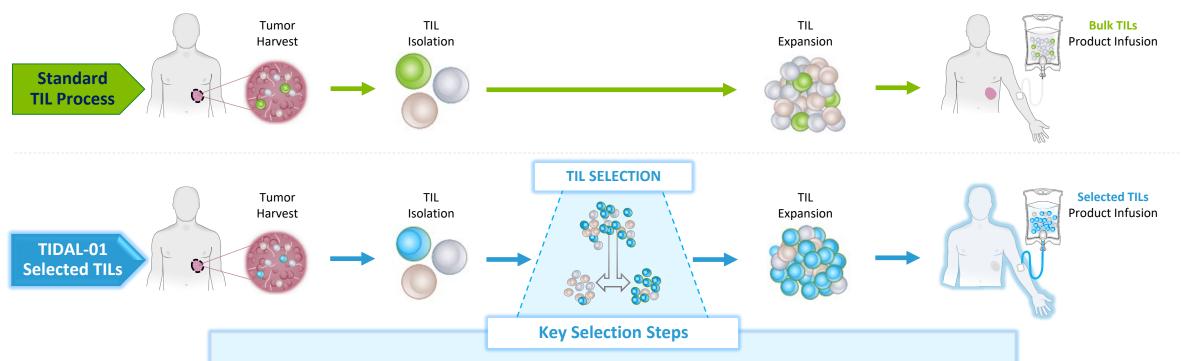


⁺⁶ patients enrolled on adoptive cell transfer protocol of enriched neoantigen-specific TIL out of 28 patients who contained TIL that recognized at least one immunogenic somatic mutation

TIDAL-01 Process

Designed to select a more potent population of T cells

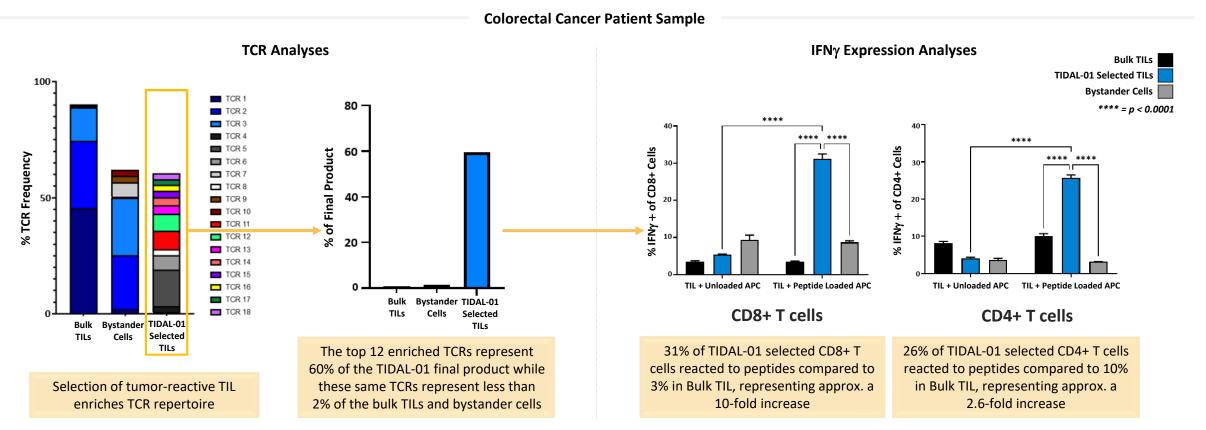
The TIDAL-01 process is similar to standard bulk TIL processes but includes a selection step designed to create a TIL product with a significantly higher proportion of tumor-reactive T cells for more effective tumor killing



- Tumor sequencing to identify all possible tumor mutations (antigens)
 - Synthesize the tumor mutations in the form of long peptides
- > Pulse patient-derived dendritic cells with the synthesized tumor antigens for natural processing and presentation
 - Incubate TILs with presented tumor antigens and select tumor-reactive T cells based on activation markers

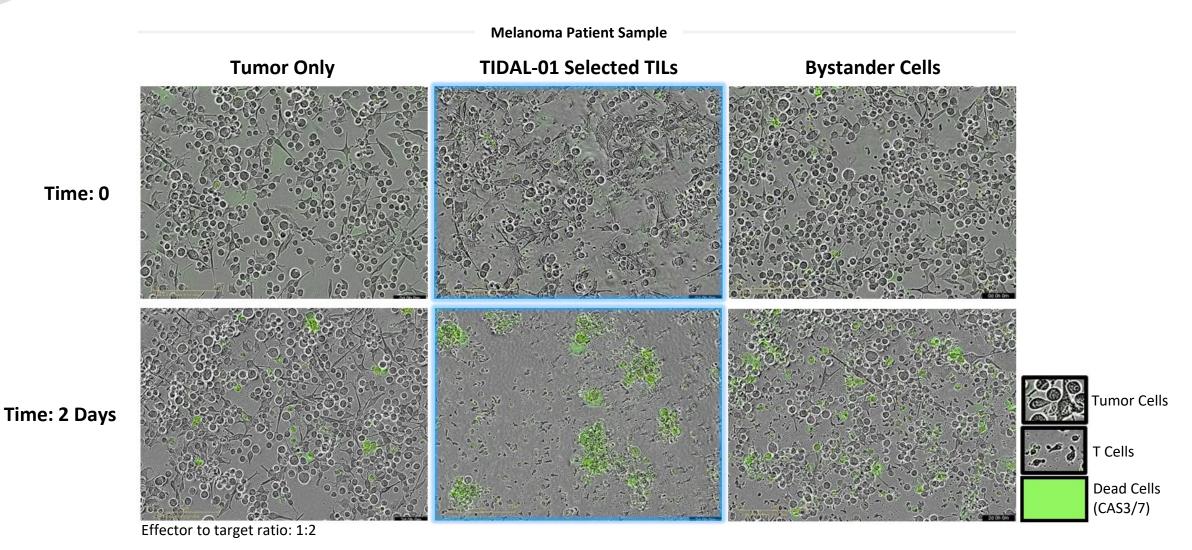
TIDAL-01 Designed to Select for Tumor-Reactive T Cells that are Typically Only Found in Very Low Levels in Bulk TILs

- TIDAL-01 product consists of diverse set of T cells with confirmed tumor-reactivity (TCRs)
- Selected tumor-reactive T cells are typically found in only very low frequencies in Bulk TILs
- These TCRs within Selected TILs deliver higher frequency of immunostimulatory cytokine expression in CD4+ and CD8+ T cells vs. Bulk TILs





TIDAL-01 Displays Higher Capacity to Kill Tumor Cells





TIDAL-01 CLINICAL DEVELOPMENT



TIDAL-01 Phase 1 Clinical Trials in Advanced Solid Tumors

Phase 1 Study

Demonstrate the safety, biology, initial efficacy and manufacturing feasibility of TIDAL-01 in a Phase 1, first-in-human, non-randomized, open-label, single-dose study in patients with advanced solid tumors

Design TIDAL-01 TIL viable cells: $\geq 1 \times 10^9$ **High dose IL-2** (consistent with Bulk TIL doses) **TIL Manufacturing TIL Harvest** Lymphodepletion TIDAL-01 ± a-PD-1* & Apheresis Cy-Flu TIL *a-PD1 combination in STARLING clinical trial and in HNSCC and CRC under Moffitt investigator-sponsored trials; Patients will also be receiving pembrolizumab as their anti-PD-(L)1 treatment two weeks after the TIDAL-01 infusion. Pembrolizumab will be dosed every three weeks until confirmed progressive disease or CR

Objectives

Primary Objective:

Safety and tolerability

Key Secondary Objectives:

- Overall response rate (ORR)
- Duration of response (DoR)



TIDAL-01 Phase 1 Study is Actively Enrolling Patients

Structure



Turnstone sponsored trial (STARLING) enrolling across 10+ clinical sites

- Colorectal cancer (CRC)
- Head and neck cancer (HNSCC)
- Uveal melanoma
- Breast cancer



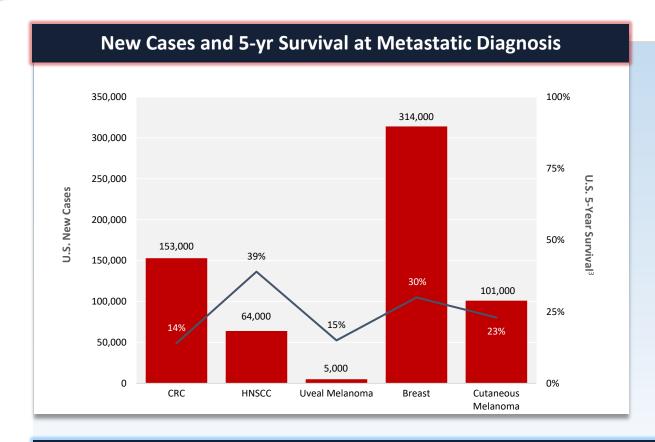
Two investigator-sponsored trials in collaboration with Moffitt Cancer Center

- Colorectal cancer (CRC)
- Head and neck cancer (HNSCC)
- Uveal melanoma
- Cutaneous melanoma

We intend to provide an initial clinical update across our trials in mid-2024



TIDAL-01 Phase 1 Indication Focus on Multiple Solid Tumors with Critical Unmet Need



- With approximately 637K new cases and 119K deaths² in the U.S. annually, Turnstone is targeting indications with serious disease burdens
- Multiple high-value targets allow for exploration with FIH therapy (some of which are supported by prior academic studies with selected TILs)
- Selected TIL therapies enriched for tumorreactive T cells have the potential to drive efficacy in both low and high TMB solid tumors

Turnstone intends to demonstrate the benefit of TIDAL-01 in solid tumors where objective response and/or durability of bulk TILs has not been established

American Cancer Society. Cancer Facts & Figures 2024; National Cancer Institute's Surveillance, Epidemiology, and End Results (SEER), accessed March 2024; Melanoma Research Alliance; Siegel RL, Miller KD, Fuchs HE, Jemal A. Cancer Statistics, 2021. CA Cancer J Clin. 2021;71:7–33; American Cancer Society. Cancer Facts & Figures 2024; Barsouk A, Aluru JS, Rawla P, Saginala K, Barsouk A. Epidemiology, Risk Factors, and Prevention of Head and Neck Squamous Cell Carcinoma. Med Sci (Basel). 2023 Jun 13;11(2):42. doi: 10.3390/medsci11020042. PMID: 37367741; PMCID: PMC10304137.; Wang J, Li S, Liu Y, Zhang C, Li H, Lai B. Metastatic patterns and survival outcomes in patients with stage IV colon cancer: A populationbased analysis. Cancer Med. 2020 Jan;9(1):361-373. doi: 10.1002/cam4.2673. Epub 2019 Nov 6. PMID: 31693304; PMCID: PMC6943094.; Barsouk A, Aluru JS, Rawla P, Saginala K, Barsouk A. Epidemiology, Risk Factors, and Prevention of Head and Neck Squamous Cell Carcinoma. Med Sci (Basel). 2023 Jun 13;11(2):42. doi: 10.3390/medsci11020042. PMID: 37367741; PMCID: PMC10304137; Cancer.net - Breast Cancer - Metastatic: Statistics; Cancer.net - Eye Melanoma: Statistic.



Indication Spotlight: Colorectal Cancer

Metastatic CRC patients have few effective treatment options

- 1st and 2nd line options mainly limited to chemotherapy (FOLFIRI / FOLFOX) +/- combinations with bevacizumab and/or anti-EGFR¹
- 3rd line treatment options are mostly targeted therapies with applicability limited to a small percentage of patients with specific mutations (i.e., BRAF-V600E, HER2)¹

Unmet need remains high and market size is significant

- After exhausting chemotherapy in 1st and 2nd line, there are very limited treatment options for the majority of CRC patients
- No approved immunotherapies for MSS-CRC², which comprise 85% of all CRC cases³
- Large patient numbers create significant market opportunity for Turnstone in 2nd and 3rd line metastatic CRC

Our Phase 1 study is enrolling across all subtypes of 2nd and 3rd line CRC



Manufacturing Highlights

Our Current Focus	;				
<u>\$</u>	Internal Capabilities		Fully operational TIL therapy process and analytical development at our San Diego facility		
	External cGMP Manufacturers for TIDAL-01		Completed successful technology transfers and clinical product manufacturing at US sites supporting Ph 1 studies		
Areas of Future Gi	rowth				
Manufact	Manufacturing Time: We are optimizing the overall manufacturing time towards our target of 4 weeks and expect that all steps will be implemented prior to start of pivotal trials				
☐ In-House	In-House Manufacturing: We are designing and intend to develop a fully integrated commercial manufacturing supply chain once clinical success of TIDAL-01 is demonstrated				
Our primary focus for Phase 1 development is to demonstrate a consistent and reproducible TIDAL-01 product with target dose numbers in our desired indications					



Moffitt = Moffitt Cancer Center



EMERGING PORTFOLIO AND COMPETITIVE PROFILE



Emerging Pipeline with Significant Upside Potential

Turnstone is building a TIL pipeline to further broaden objective responses and treat patients in earlier lines of therapy

TIDAL-02

Selected TILs with nextgeneration manufacturing and TIL functional and quality enhancements

Direct Selection

Proprietary combination of selection markers on tumor-reactive T cells to enable physical sort of reactive vs. bystander cells

Enhanced Isolation and Expansion



Gene Editing

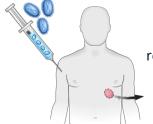


Gene edits designed to minimize dependance on exogenous IL-2 and resist exhaustion post infusion

Selected TILs + Virus

Viral immunotherapy pre-treatment and post-treatment in combination with TIDAL-01

Pre-treatment: Expand access to indications less amenable to TIL therapy by optimizing TIL extraction



Drive a more diverse population of tumor-reactive T cells and increase T cell trafficking to tumor for superior quality and quantity of TIL harvest

Post-treatment: Reprogram tumor with viral immunotherapy to improve the objective response of TIL treatment

Reprogram the immunosuppressive tumor microenvironment (e.g., turn a "cold" tumor "hot") potentiating TIL infiltration, function, and proliferation within the tumor





Turnstone Competitive Positioning



Selected TILs

Turnstone is pioneering advancements in Selected TIL Therapy



Turnstone is making further modifications to the optimal population of Selected TILs



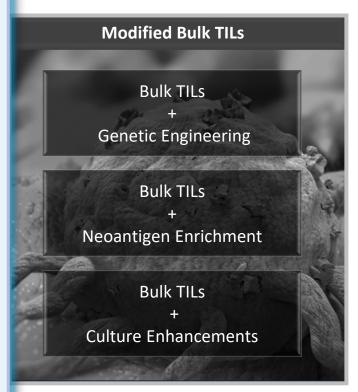
Genetic Engineering



Culture Enhancements



Virus Combinations





Turnstone Biologics Highlights



TILs have been recently approved by the FDA for the treatment of cutaneous melanoma



Academic studies provide early clinical evidence for next-generation selected TIL approach in multiple solid tumors



Turnstone is developing Selected TILs to broaden potential treatment across the majority of solid tumors



We are currently evaluating TIDAL-01 in multiple Phase 1 clinical trials focused on CRC, HNSCC, uveal melanoma, breast cancer and cutaneous melanoma



Initial clinical update from Phase 1 TIDAL-01 studies anticipated in mid-2024





