



Corporate Presentation

November 2024

Nasdaq: TSBX

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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%+

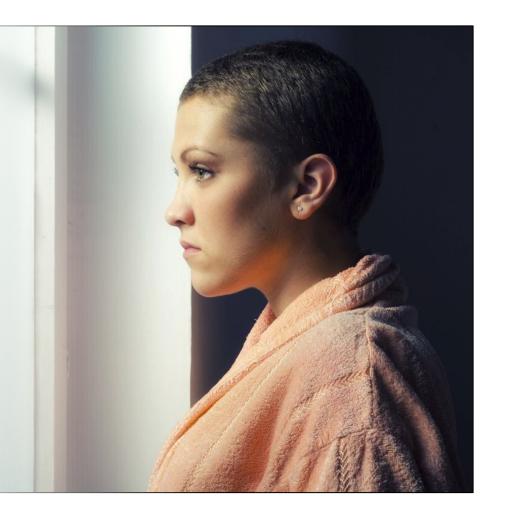
mortality in metastatic disease²

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; <u>News release</u>

Turnstone's Next-Generation TILs Are Designed to Address Solid Tumors of High Unmet Medical Need

Amtagvi 1st generation bulk TIL therapy is the first cell therapy approved for solid tumors

FDA NEWS RELEASE

FDA Approves First Cellular Therapy to Treat Patients with Unresectable or Metastatic Melanoma

Amtagvi is solely indicated for **metastatic**

melanoma and bulk TILs have generally failed to

show success in other solid tumors

For Immediate Release: February 16, 2024

Next-generation selected TILs are designed to confer more targeted and potent tumor killing



Cancer Immunotherapy Based on Mutation-Specific CD4+ T Cells in a **Patient with Epithelial Cancer**

Eric Tran, ¹ Simon Turcotte, ¹* Alena Gros, ¹ Paul F. Robbins, ¹ Yong-Chen Lu, ¹ Mark E. Dudley, ¹† John R. Wunderlich, ¹ Robert P. Somerville, ¹ Katherine Hogan, ¹ Christian S. Hinrichs, ¹ Maria R. Parkhurst, 1 James C. Yang, 1 Steven A. Rosenberg 1 ±



Breast Cancers Are Immunogenic: Immunologic Analyses and a Phase II Pilot Clinical Trial Using Mutation-Reactive **Autologous Lymphocytes**

Turnstone's Selected TILs aim to harness a more reactive T cell population to drive efficacy in broader solid tumor types

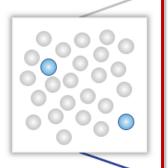


Selected TILs Have Potential for More Targeted Tumor Killing

Tumor-reactive T cells can contribute to tumor killing

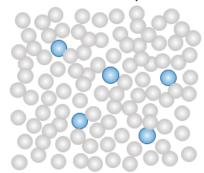
Solid Tumors

Starting materials for solid tumors typically have small number and proportion of tumor-reactive T cells



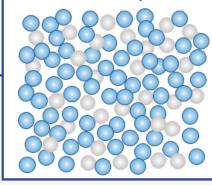
Tumor-Reactive T Cells Suppressive Bystander Cells

Bulk TILs: Non-specific expansion of all cells



- 10⁹+ cells with low number and proportion (reported median < 3%) of on target tumor-reactive T cells
- Large number and proportion of suppressive bystander cells
- Inefficient tumor killing observed to date

Selected TILs: Specific expansion of tumor-reactive T cells



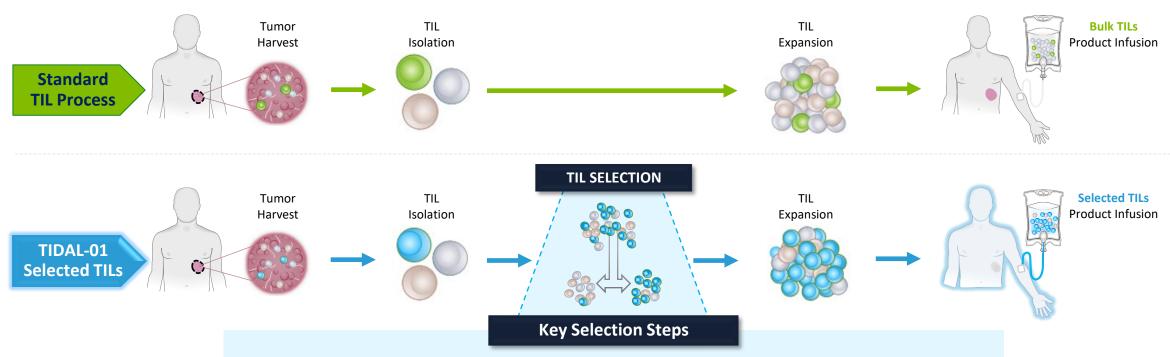
- 10⁹+ cells with large number and proportion of on-target tumor-reactive T cells
- Low number and proportion of suppressive bystander cells
- Potential for targeted tumor killing



TIDAL-01 Process

Designed to select more potent population of T cells

The TIDAL-01 process is similar to standard bulk TILs but includes selection step designed to create product with 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



Turnstone Leadership 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 the biotech industry.
- Held senior positions at Merck, Immune Design, and Synthetic Genomics.
- Previously at Versant Ventures specializing in biotechnology investing and new company formation.









Saryah Azmat
Chief Operating 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.





Michael Fitch, PhD SVP, Manufacturing

- 18+ years of biotechnology and pharmaceutical industry experience.
- Key expertise in cell therapy technical operations, CMC, and manufacturing.
- Served as CMC Operations Lead at Kite Pharma/ Gilead Sciences supporting in the approval Yescarta and successful regulatory submissions for other cell therapies.





David Stojdl, PhD SVP, Research and Discovery

- 20+ years of research and drug development expertise spanning cell therapy, cancer biology, drug discovery, virology, and translational science.
- Co-founded Turnstone Biologics in 2014.
- Co-founded Jennerex
 Biotherapeutics which was later acquired by SillaJen

 Biotherapeutics.





Ines Verdon, MD
SVP, Clinical Development

- 20+ years of academic and pharmaceutical industry experience.
- Joined from Rubius
 Therapeutics where she was VP of Clinical
 Development, developing cellular therapies for advanced solid tumors.
- Previously at Sierra
 Oncology as medical lead for several oncology programs across all stages of clinical development.







Wendy Worcester, CPA
VP, Principal Finance and
Accounting Officer

- 20+ years of financial and accounting industry experience.
- Joined from Gateway Genomics and played a key role in completing Turnstone's IPO in 2023 and building its Finance organization.
- Certified Public Accountant (CPA)(inactive) and has held the Chartered Financial Analyst (CFA) designation.





Turnstone External Network

Supported by prominent scientific and corporate advisors and collaborators



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



Alan Melcher, PhD
Team Leader, Translational Immunology
The Institute of Cancer Research



Vijay Chiruvolu, MBA, PhD
Former CTO
Turnstone Biologics / Instil Bio / Kite Pharma



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



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



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



Tassos Gianakakos, MBA Former CEO MyoKardia



Eric Tran, PhD

ACT Laboratory Lead

Providence Cancer Institute



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



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



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	CRC; HNSCC; Uveal melanoma					Clinical program	
			CRC; HNSCC; Uveal melanoma	Moffitt Collaborat	cion*			update in 1H 2025	

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





TIDAL-01 Initial Clinical Data



Turnstone is Pioneering Advancements in Selected TIL Therapy

Turnstone is building on success of TIL therapy in melanoma by developing **next-generation**Selected TILs to address additional high-medical need solid tumors



TIDAL-01 is enrolling in multiple Phase 1 trials in solid tumors including CRC, head and neck cancer, and uveal melanoma



Initial interim data in CRC

demonstrated promising clinical evidence and supports our biological hypothesis



Results to date help to focus our strategy for manufacturing and future clinical development to advance new treatment for metastatic CRC

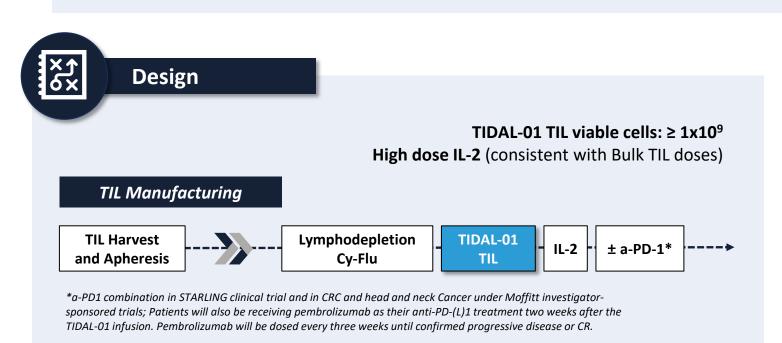


TIDAL-01 Phase 1 Clinical Trials in Advanced Solid Tumors



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





Objectives

Primary Objective:

Safety and tolerability

Key Secondary Objectives:

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



Phase 1 Clinical Trials in Multiple Tumor Types Are Ongoing



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

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



The initial clinical data comprises the **first 4** evaluable CRC patients from the STARLING trial



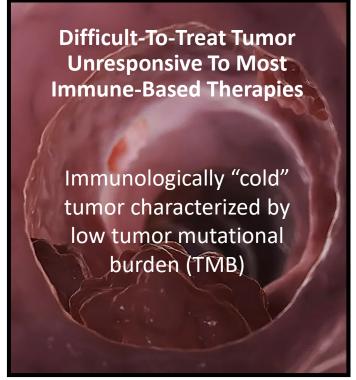
Two investigator-sponsored trials in collaboration with Moffitt Cancer Center

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



Lead Indication: Colorectal Cancer









Limited New Therapies in Development for Metastatic CRC

Dearth of Options in Development for Metastatic MSS CRC

- Little to no novel treatment options or new modalities in development for large population of metastatic MSS¹CRC patients
- Promising data for immunotherapies, particularly for anti-CTLA4 (including modified / enhanced versions) ± anti-PD-1 in advanced development for CRC have been limited to:
 - MSI² CRC (immune sensitive) where anti-PD-1 already approved as first line treatment
 - Local (non-metastatic) CRC in neoadjuvant setting
 - MSS mCRC without active liver metastases (which are highly prevalent in CRC patients)

Bulk TILs Have Not Demonstrated Clinical Benefit in CRC



Efficacy and safety of autologous tumorinfiltrating lymphocytes in recurrent or refractory ovarian cancer, colorectal cancer, and pancreatic ductal adenocarcinoma

MDACC - Rodabe et al.; JITC 2024

- 2024 MDACC publication showed 0 responses in 8 patients with recurrent / metastatic CRC treated with bulk TILs
- Historical NCI data³ in 50+ patients treated with bulk TILs across various solid tumors (including CRC, Bile Duct, Pancreas, Breast, Gastric) demonstrated no clinical success



^{1.} MSS indicates Microsatellite Stable form of CRC which is typically non-responsive to checkpoint inhibitors and represents up to 95% of metastatic colorectal cancer patients

^{16 |} Corporate Presentation | November 2024 2. MSI indicates Microsatellite Instable form of CRC which can be responsive checkpoint inhibitors and represents approximately 5% of metastatic colorectal cancer patients

^{3.} Rosenberg AACR 2020 / NCT01585428

Academic Clinical Studies with Selected TILs in Metastatic CRC **Provide Evidence of Activity**

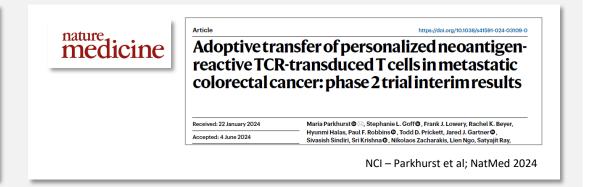


T-Cell Transfer Therapy Targeting Mutant KRAS in Cancer

Eric Tran, Ph.D., Paul F. Robbins, Ph.D., Yong-Chen Lu, Ph.D., Todd D. Prickett, Ph.D., Jared J. Gartner, M.Sc., Li Jia, M.Sc., Anna Pasetto, Ph.D., Zhili Zheng, Ph.D., Satvaiit Ray, Ph.D., Eric M. Groh, M.D., Isaac R. Kriley, M.D., and Steven A. Rosenberg, M.D., Ph.D.

NCI - Tran et al; NEJM 2016

In the single patient NCI study published in NEJM in 2016 by Tran et al., selected TILs demonstrated a deep and durable PR in metastatic CRC



In NCI study published in NatMed in July 2024 by Parkhurst et al., selected TILs used to generate product for 7 metastatic MSS CRC patients resulted in 3 deep PRs

Turnstone's preliminary data combined with academic clinical studies with selected TILs create compelling emerging picture of the very promising potential of selected TILs to treat metastatic CRC



Colorectal Cancer Represents Large Medical Need and Significant Market Opportunity

Advanced metastatic MSS CRC (MSS mCRC) is typically treated with chemotherapy (FOLFIRI/FOLFOX) +/- combination with bevacizumab or anti-EGFR, but resistance to chemotherapy is inevitable^{1,2}

Targeted therapies are available, however most MSS mCRC patients do not have actionable mutations²

Biomarker	Frequency
BRAF-V600E	5-10%
HER2 Overexpression	2-3%
KRAS-G12C	3%

For patients lacking actionable mutations, OR that fail targeted therapies, treatment efficacy outcomes after exhausting chemotherapy are poor³⁻⁵





This represents the total patient population being treated with TIDAL-01 in current Phase 1 trials

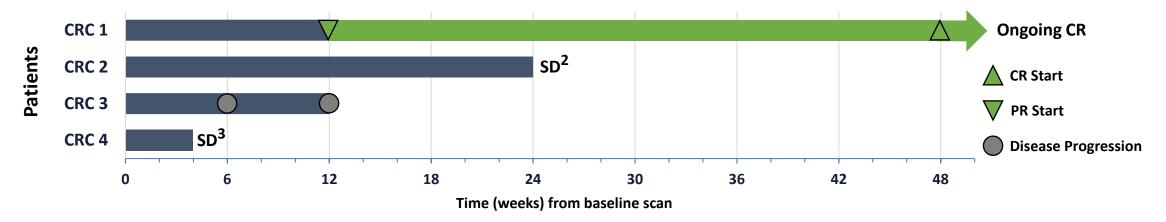
^{1.} NCCN Guidelines Version 1.2024. 2. Am Soc Clin Oncol Educ Book 43, e389574(2023). 3. Grothey A, et al. Lancet. 2013; 381: 303-312.

Promising Initial Results in MSS mCRC Patients Observed in TIDAL-01

4 MSS mCRC patients evaluable for response¹

- One patient with deep and durable confirmed Partial Response (PR) that converted into Complete Response (CR) at last scan at week 48
- One patient with confirmed Stable Disease (SD) at last scan at week 24

Patient	Best Response (based on independent central reads)	
CRC 1	Complete response (Week 48)	
CRC 2	Stable disease (Week 24)	
CRC 3	Progressive disease (Weeks 6 and 12)	
CRC 4	Stable disease (Week 4)	



Ongoing response and SD are notable in relapsed MSS mCRC population, where patients often have almost no viable treatment options⁴⁻⁶

^{1.} Six MSS mCRC patients were dosed on STARLING but one was lost to follow-up (not evaluable for response), one patient scan data pending as of data cut-off on August 14 2024. 2. Patient is off study and started new treatment in consultation with treating physician. 3. Only one scan available for patient with a central scan reading of SD at week 4, patient has been off study since. 4. Grothey A, et al. Lancet. 2013; 381: 303-312 5. Prager GW, et al. N Engl J Med 2023;388:1657-6 6. Dasari, A et al. Lancet 2023; 402: 41-53.



CRC Patient 1: Treating Advanced Disease in 3rd Line MSS mCRC

Progressed after 2 lines of prior standard chemotherapy regimens and in need of new treatment option



- 55-year-old female
- Diagnosed August 2021 with Stage IIIb node-positive CRC
- MSS CRC with no actionable mutations (KRAS/NRAS/BRAF wild type)
- 30 pack year smoker, shortness of breath, neuropathy from chemotherapy, PE, GERD

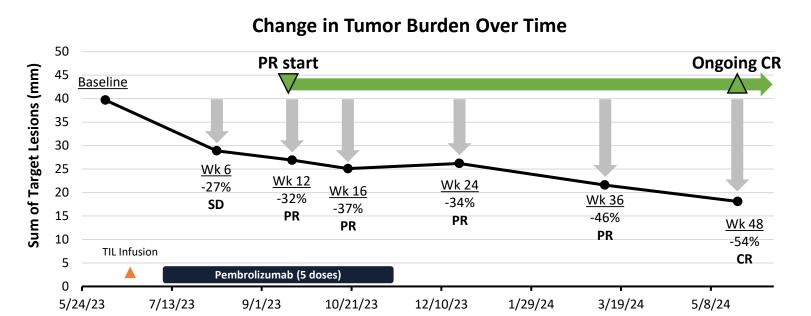


Date	Patient Treatment History	
8/21	Neoadjuvant chemoradiotherapy	
11/21	1L FOLFOX for 3 months until PD (new retroperitoneal nodes)	
5/22	2L FOLFIRI + bevacizumab for 2 months with SD	
9/22	Surgery (low anterior resection)	
3/23	Mediastinal, liver and lung metastases	

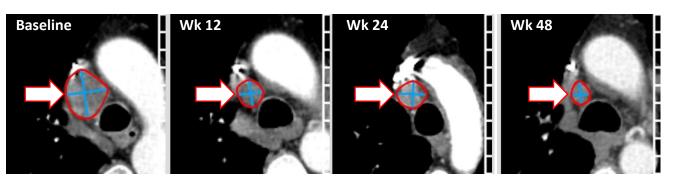
Note: patient also received bridging therapy of 2 cycles FOLFIRI+ panitumumab prior to washout period and receiving TIDAL-01



CRC Patient 1: Complete Response in MSS mCRC with Continuing Durability Through 48 Weeks



Target
Lesion 1
(mediastinal lymph node)



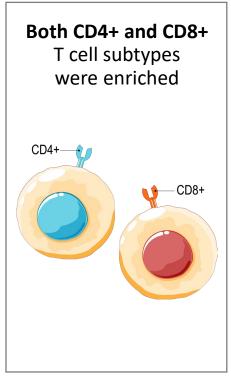
- Central scan reported PR starting at 12 weeks that deepened over time and converted into CR at 48 weeks
- Circulating tumor DNA declined to zero and has remained negative as of last ctDNA reading at week 36
- Response has been durable and patient has been progression free for one year
- Patient reported feeling clinically well and had her stoma reversed



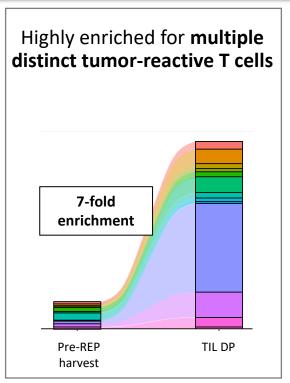
CRC Patient 1: Product Characterization and Translational Data Support Biological Hypothesis for Selected TILs

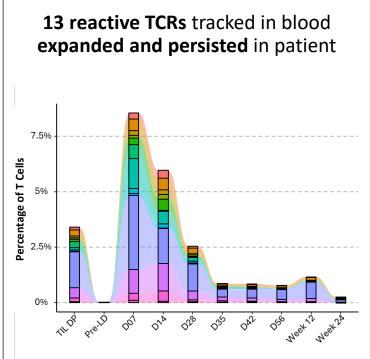
Selected TIL product for CRC Patient 1 had our targeted product characteristics and biological activity and these **successfully translated** into strong clinical response





DP = Drug product; LD = Lymphodepletion; REP: Rapid expansion protocol







TIDAL-01 Manufacturing Success Rate and Safety Are Consistent with Other Early Clinical Stage Cell Therapies



TIDAL-01 manufacturing success rate in CRC for patients with sufficient starting material¹



Target dose of 1E9 cells was exceeded in all CRC products manufactured

Patient	Dose	
CRC 1	3 x 10 ¹⁰ cells	
CRC 2	2 x 10 ¹⁰ cells	
CRC 3	6 x 10 ⁹ cells	
CRC 4	1 x 10 ¹⁰ cells	



No new or unexpected safety observations specific to Selected TILs



Safety profile was consistent with known AE profiles associated with the lymphodepletion regimen, IL-2 and pembrolizumab

Patient	Treatment regimen related SAEs
CRC 1	SAE ² G3 ³ pneumonitis related to pembro, resulted in pembro discontinuation
CRC 2	SAE G3 diabetic ketoacidosis related to pembro, resulted in pembro discontinuation
CRC 3	No treatment related SAEs observed
CRC 4	No treatment related SAEs observed



Opportunity for Compelling Clinical Development Strategies



- 1 Build off preliminary success and continue to advance our Phase 1 study by targeting enrollment of CRC patients we believe are most likely to benefit from TIDAL-01 therapy
- We also intend to develop TIDAL-01 in earlier lines of treatment in combination with chemotherapy to potentially treat an even more responsive patient population

We believe completion of Phase 1 study including expansion cohort has potential to lead to registrational intent study in next 18-24 months



Additional Indications

We are simultaneously advancing our Phase 1 studies in head and neck cancer and uveal melanoma



Selected TILs Have the Potential to be Transformative in the Treatment of CRC

TIDAL-01 shows promising clinical benefit in metastatic MSS CRC:

- In the first 4 patients we have seen a 25% overall response rate (ORR) with durable clinical benefit and 50% disease control rate (DCR) in a setting where patients are unresponsive to checkpoint inhibitors and have almost no treatment options
- No new safety signals were observed with TIDAL-01 and we have demonstrated the ability to successfully manufacture the product

TIDAL-01 findings are corroborated by academic clinical data for selected TILs in metastatic CRC:

Clinical data from multiple studies at the NCI with selected TILs have also demonstrated responses in patients with metastatic CRC, strengthening the body of data for the approach in this indication

Taken together, the TIDAL-01 and academic clinical data demonstrate the potential for selected TILs to be a breakthrough treatment to address the large unmet medical need for patients with metastatic CRC



Building on the Promise of Selected TILs in Solid Tumors



Turnstone is building on success of recently FDA-approved TIL therapy in melanoma by developing **next-generation Selected TILs** to address additional high-medical need solid tumors



TIDAL-01 is currently enrolling Phase 1 trials in multiple solid tumor types including CRC, head and neck, and uveal melanoma



Initial TIDAL-01 interim data demonstrated promising clinical evidence for CRC supported by our biological hypothesis



Results to date help to **focus our TIDAL-01 strategy** for manufacturing and future clinical development to advance this potential new treatment for metastatic CRC





