



Takeda Oncology

Inspiration From Patients. Innovation From Everywhere.

June 8, 2021 EDT / June 9, 2021 JST

Takeda Pharmaceuticals Company Limited



ONCOLOGY

Better Health, Brighter Future

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Today's Presenters



Teresa Bitetti

President, Global Oncology Business Unit



Chris Arendt, PhD

Head, Oncology Therapeutic Area Unit

Agenda

June 8, 2021 EDT
June 9, 2021 JST

6:30 – 6:35 p.m. Takeda Oncology Overview

6:35 – 6:50 p.m. Commercial

6:50 – 7:15 p.m. R&D

7:15 – 7:45 p.m. Q&A

All times are in Eastern Daylight Time (EDT)



Takeda Oncology Overview and Portfolio Updates

Teresa Bitetti

President, Global Oncology Business Unit

Takeda Pharmaceuticals International Co.



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Better Health, Brighter Future

We Aspire To Cure Cancer

OUR FOUNDATION

**Demonstrated leadership
in the treatment of
hematologic cancers
and solid tumors**

OUR RESEARCH

**Harnessing the power
of innate immunity to
enhance and broaden
the impact of
immunotherapy**

OUR PARTNERS

**Differentiated immuno-
oncology platforms and
symbiotic partnerships**

Oncology Business Unit Is Structured Within Takeda To Meet the Unique Needs of the Cancer Community



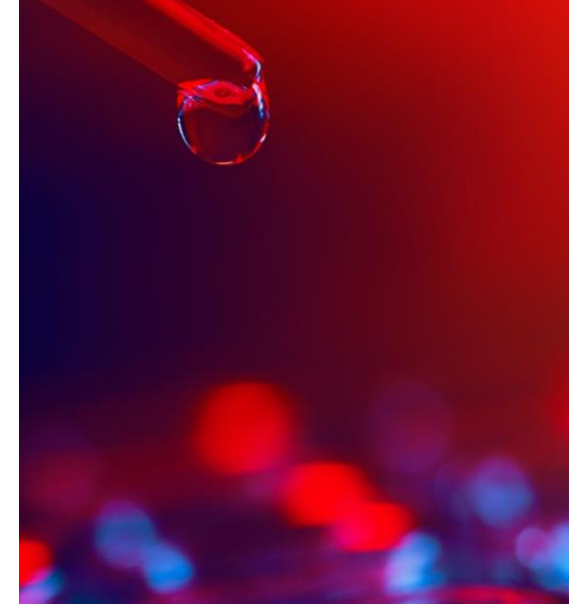
**Commercial and
R&D co-located
for seamless
collaboration**



**Built for speed and
agility; resourced
like a large
pharma company**



**Proven growth
and consistent
performance**

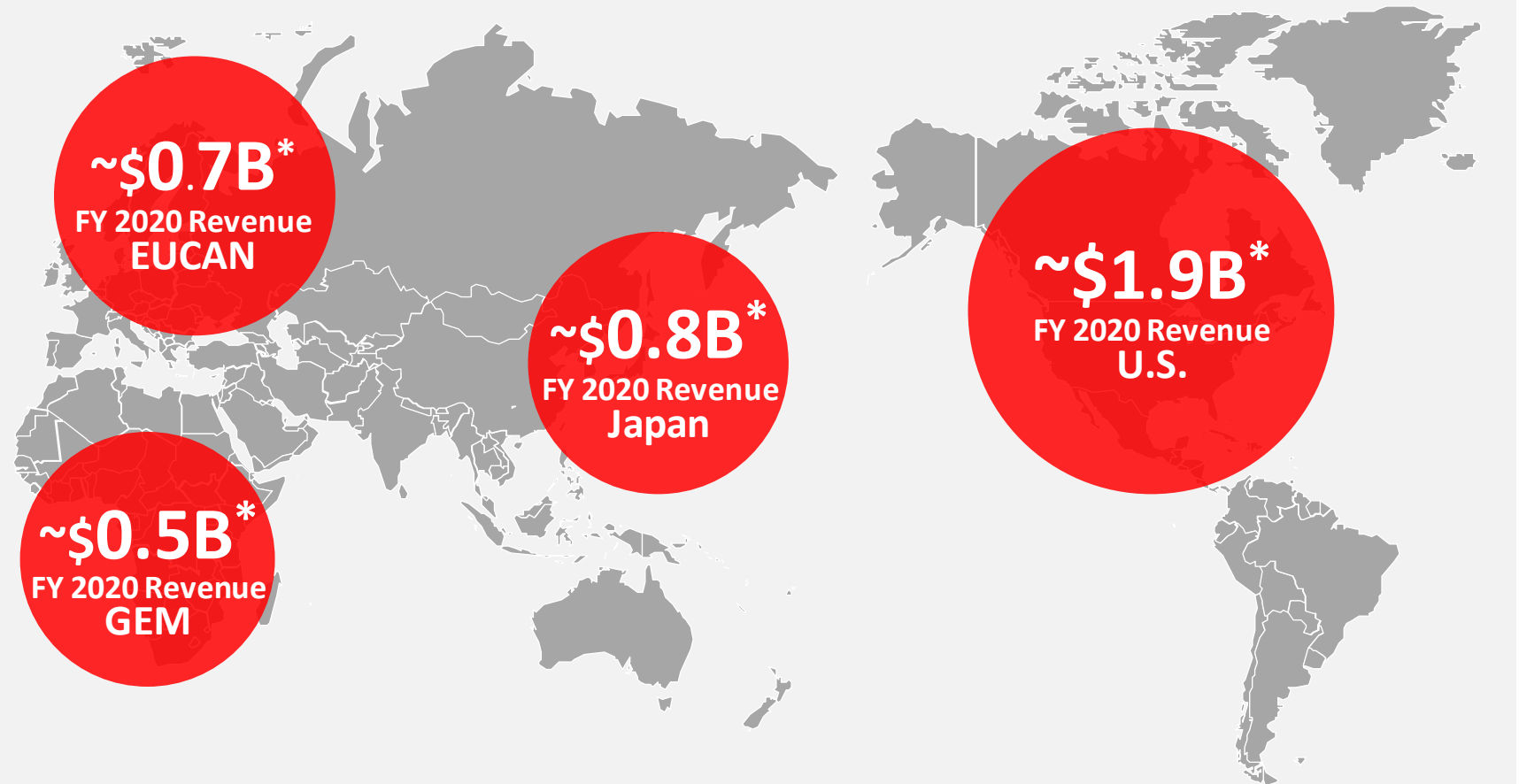


**Diverse and
robust pipeline**

Reaching Patients Globally Through Strong Presence Across the World

**Global Oncology
Revenue FY20:
~\$3.9B* USD**

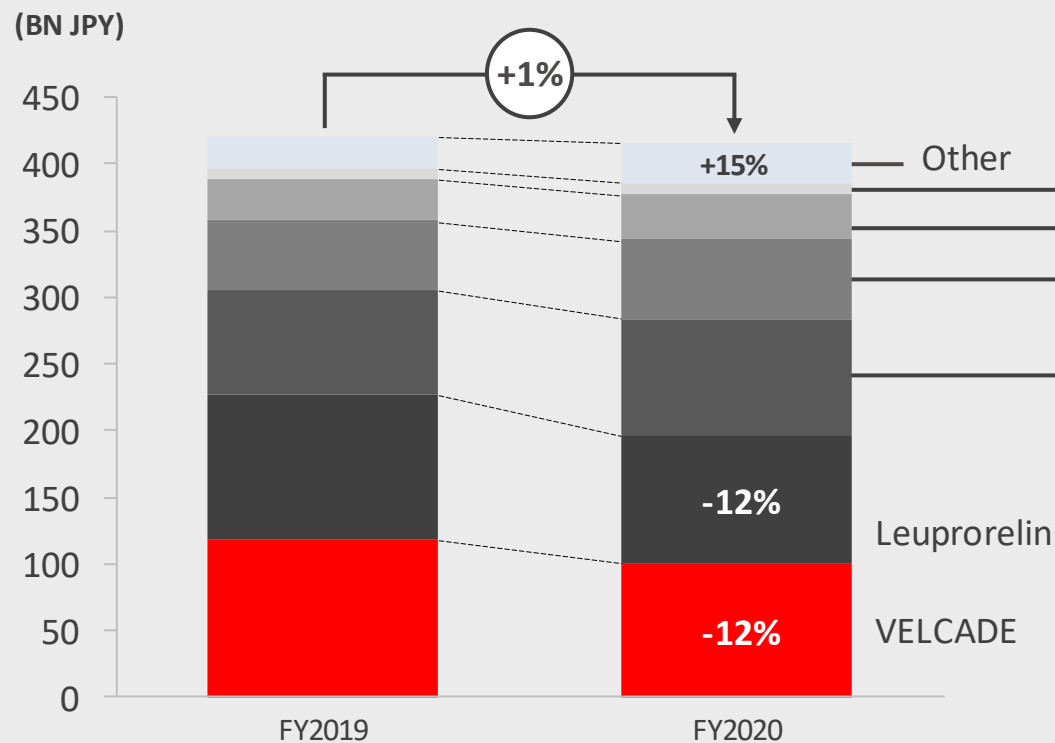
**Present in more than 70
countries with our
oncology medicines**



*USD included for reference, calculated at JPY/USD of 106
EUCAN : Europe & Canada, GEM: Growth and Emerging Market

Strong Growth for Promoted Oncology Brands

ONCOLOGY PORTFOLIO FY2020 REVENUE



Absolute values are presented on an IFRS (reported) basis;
Year-on-year changes are underlying growth



+24%
\$83MM USD²



+11%
\$323MM USD²



+20%
\$560MM USD²



+16%
\$825MM USD²

1. ADCETRIS is in-licensed from Seagen Inc.; Takeda has development and marketing rights outside of the U.S. and Canada

2. USD included for reference, calculated at JPY/USD of 106

ALUNBRIG First-Line Launches Garner Growth in U.S. & EU Against Backdrop of Declining Diagnoses due to COVID-19



ALUNBRIG growth driven by uptake in first-line treatment of patients with **ALK+ metastatic non-small cell lung cancer (mNSCLC)** and multiple first-line launches in new markets

Expanding new patient share in the U.S. following 1L FDA approval in May 2020

Achieved positive reimbursement outcomes in all major EU markets following EC approval in April 2020

Japan positive reimbursement outcome and launch in April 2021*



* The picture shows a product line-up which is different to the one available in Japan. The 180mg dose shown in the image has not been approved in Japan.

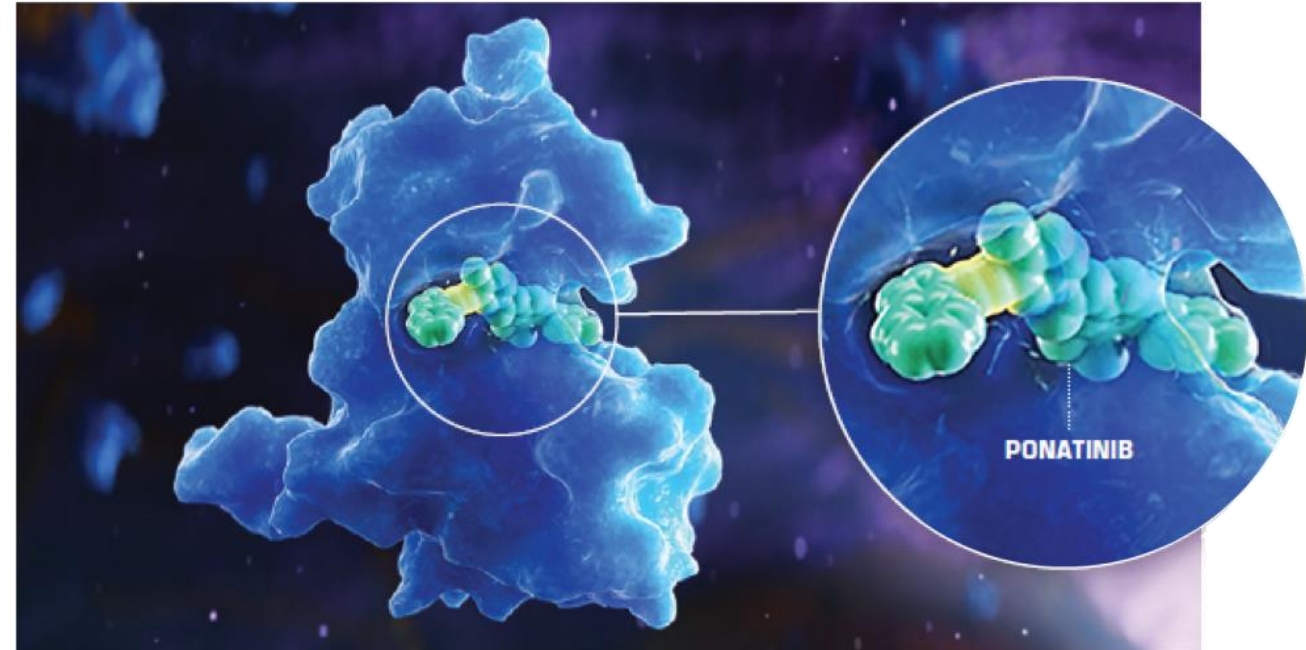
ICLUSIG Label Expansion and Recent Successful Launch Drive Growth in U.S.



U.S. sNDA approved end of December 2020 for adult CP-CML patients with resistance or intolerance to at least two prior tyrosine kinase inhibitors

Updated label includes new dosing regimen that optimizes benefit-risk profile

Preparing for Phase 3 PhALLCON registrational data readout in 2H FY21



ICLUSIG is the **only** 3rd generation TKI engineered to inhibit BCR-ABL **regardless of mutation status**



Preparing to launch two NMEs



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Mobocertinib: Potential First **Oral** Therapy for Patients With EGFR Exon20 Insertion Mutation mNSCLC

Unmet Need

- EGFR Exon20 insertion mutations are present in ~5-12% of EGFR-mutated NSCLC tumors (2% of all NSCLC)
- There are **no targeted oral treatment options**. Current EGFR TKIs + chemo provide minimal benefit

Mobocertinib

- Received **Breakthrough Therapy Designation** and **Priority Review** from U.S. FDA
- Potential to be **first and only oral therapy** with once-daily dosing to target EGFR Exon20 insertion+ mNSCLC
- Registration enabling study demonstrated **clinically meaningful and durable responses** with a median overall survival of 24 months

Launch Readiness

- **HCP education** on EGFR Exon20 unmet needs and finalizing care management strategy and tactics
- Partnerships with **ThermoFisher** and **Foundation Medicine** to develop CDx for mobocertinib



Potential 2L approval – PDUFA Oct 2021 | China NDA submission on track

1: Phase 1/2 trial of mobocertinib (TAK-788) orally administered in patients with EGFR Exon20 insertion+ mNSCLC who received prior platinum-based chemotherapy

Pevonedistat Aims To Transform Survival Outcomes in Higher-Risk MDS and AML

Unmet Need

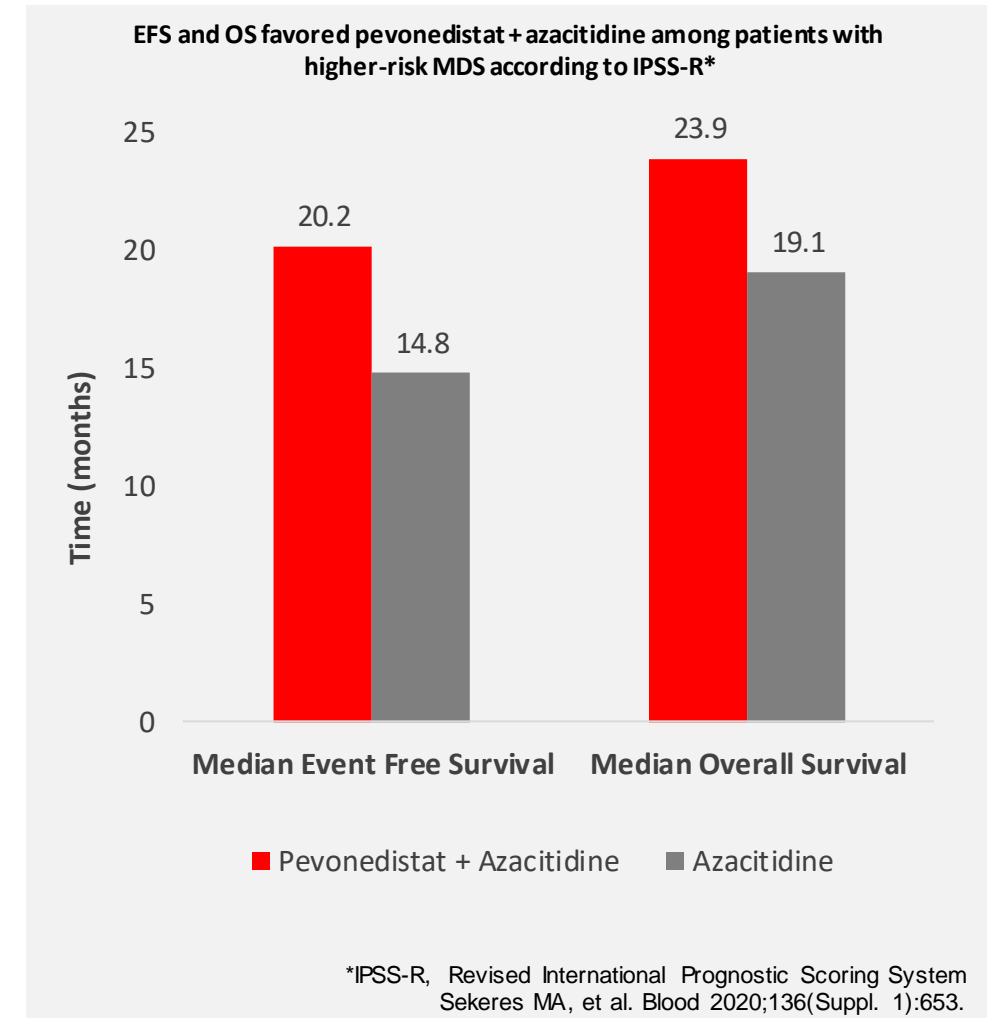
- In **higher-risk MDS**, there have been **no novel treatment advances** in more than a decade. Current treatment options are limited and outcomes remain poor, **with average survival less than 15 months**
- Economic burden of supportive care is substantial: Hospitalizations are common and many patients are transfusion dependent

Pevonedistat

- Pevonedistat could **extend survival and delay transformation to AML**, with a safety profile similar to azacitidine alone
- Received **Breakthrough Therapy Designation** from U.S. FDA
- Phase 2 data showed **encouraging results**; suggest benefit in **event-free and overall survival** in higher-risk MDS

Launch Readiness

- HCP education around treatment options and emerging therapies in higher-risk MDS
- Preparations for **PANTHER data presentation** and **global regulatory submissions**



Enrolling in PEVOLAM¹ and PEVENAZA² trials to evaluate benefit of combinations in unfit AML

Several Potentially Transformational Opportunities in the Oncology Pipeline

Late-Stage Pipeline

FY21

TARGET APPROVAL¹

FY22

mobocertinib

*EGFR Exon20
insertion+ mNSCLC²*

pevonedistat

*Higher-Risk MDS
Unfit AML*

Early-Stage Pipeline

Cold-to-Hot

TAK-981

*Multiple
Cancers*

TAK-605

*Multiple
Cancers*

TAK-676

*Solid
Tumors*

TAK-252

*Solid
Tumors*

TAK-573

Multiple Myeloma

PROOF OF CONCEPT FY21

PROOF OF CONCEPT FY21

Redirected Immunity

TAK-007

*Hematologic
Malignancies*

TAK-102

*Solid
Tumors*

TAK-940

*B-Cell
Malignancies*

TAK-186

*Solid
Tumors*

1. All timelines are current as of June 8, 2021 and are subject to change due to COVID-19. Projected approval dates depend on data read-outs; some target approval dates assume accelerated approval
2. Projected approval date assumes filing on Phase 1/2 data



Takeda Oncology R&D Overview



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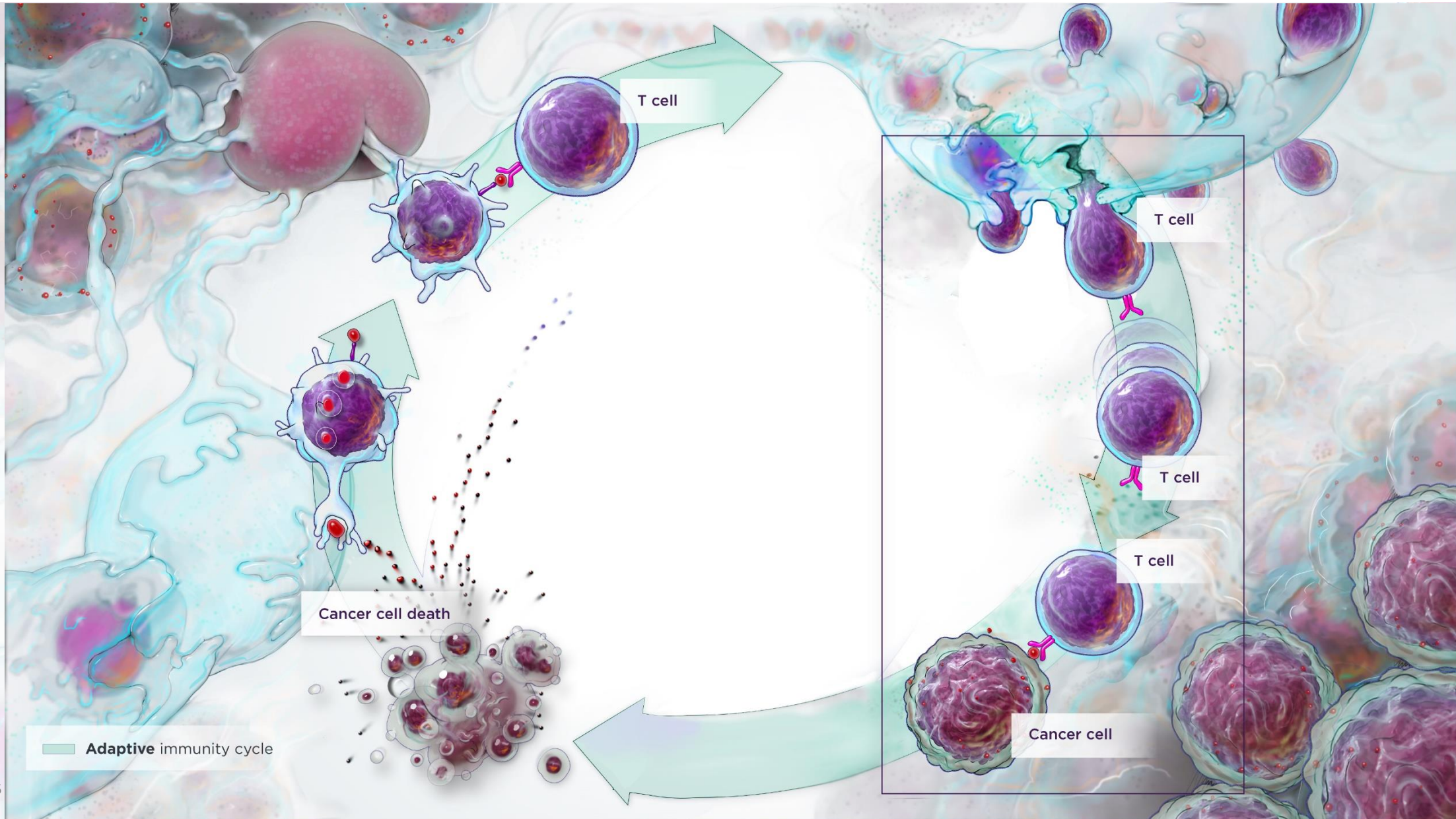
Chris Arendt, PhD

Head, Oncology Therapeutic Area Unit

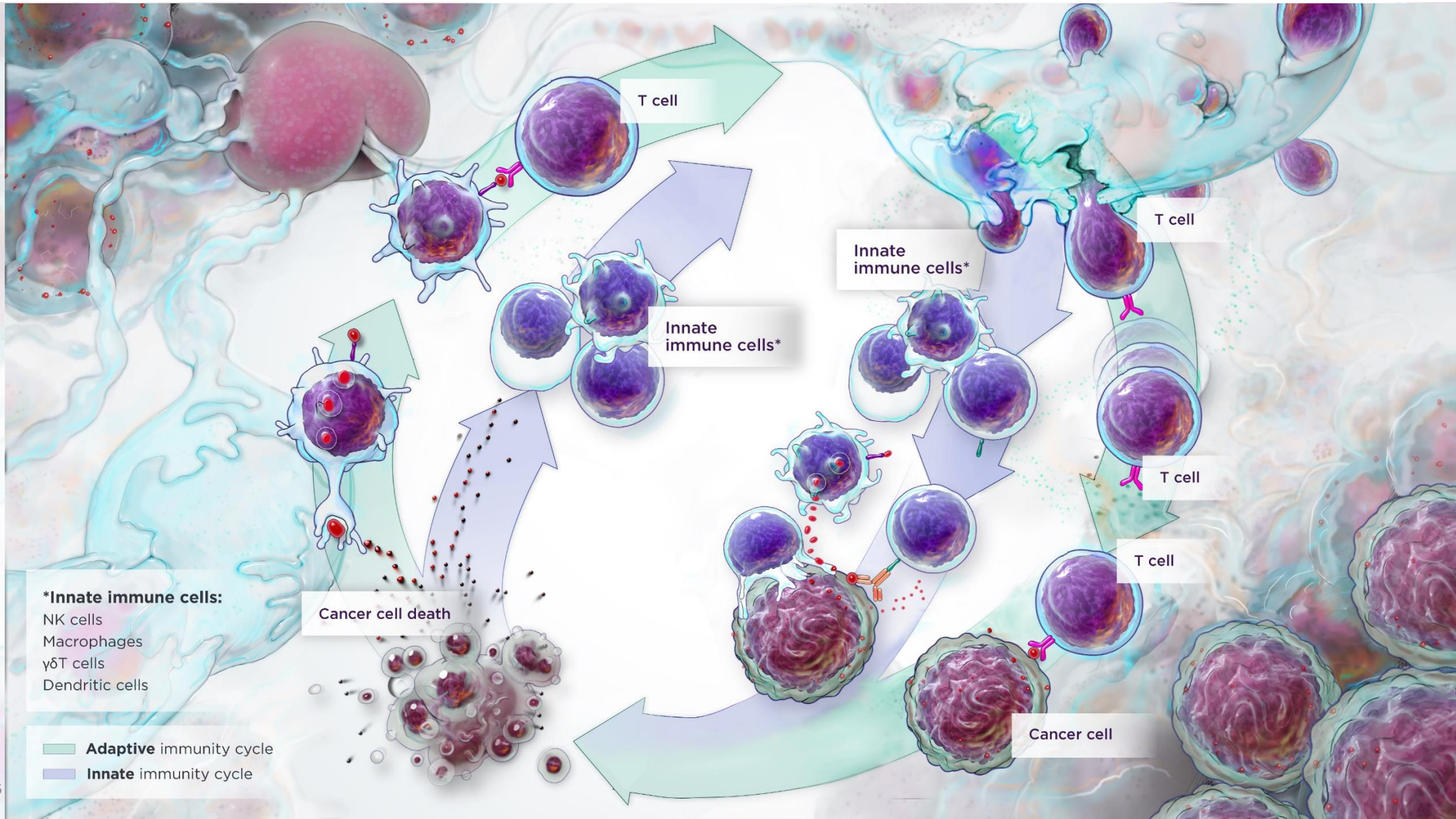
Takeda Pharmaceuticals International Co.

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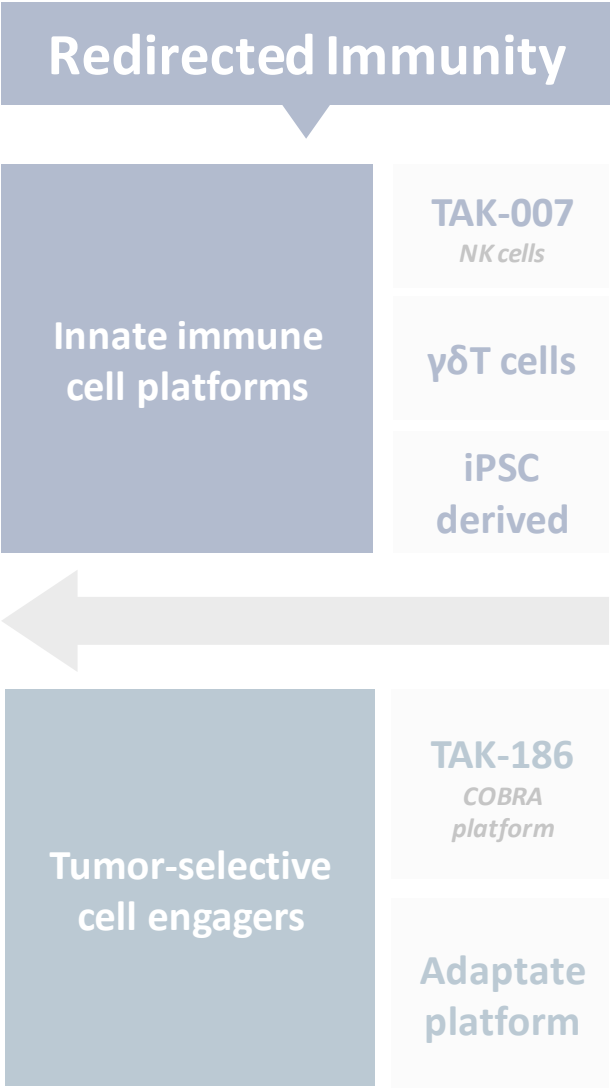
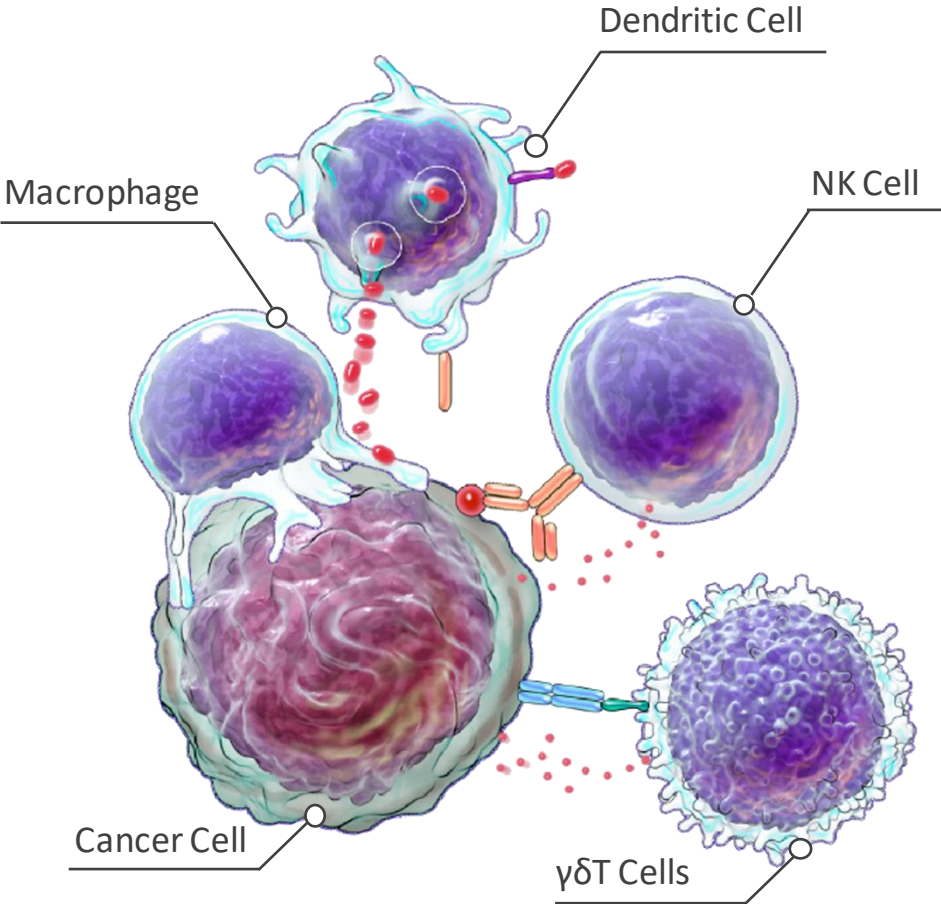
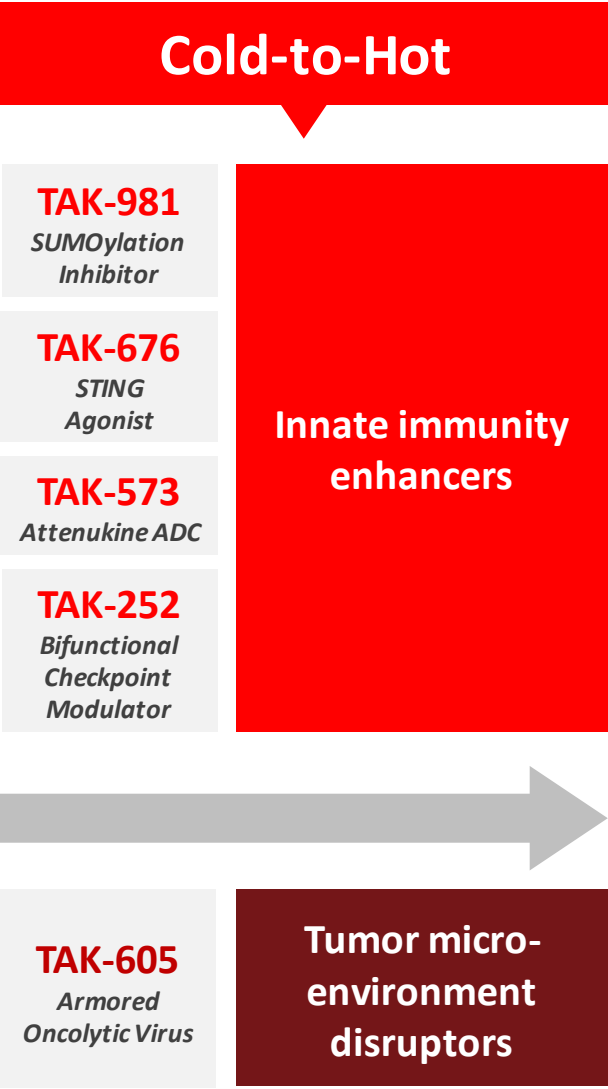
Applying the Untapped Power of Innate Immunity To Enhance the Potential of Cancer Immunotherapies



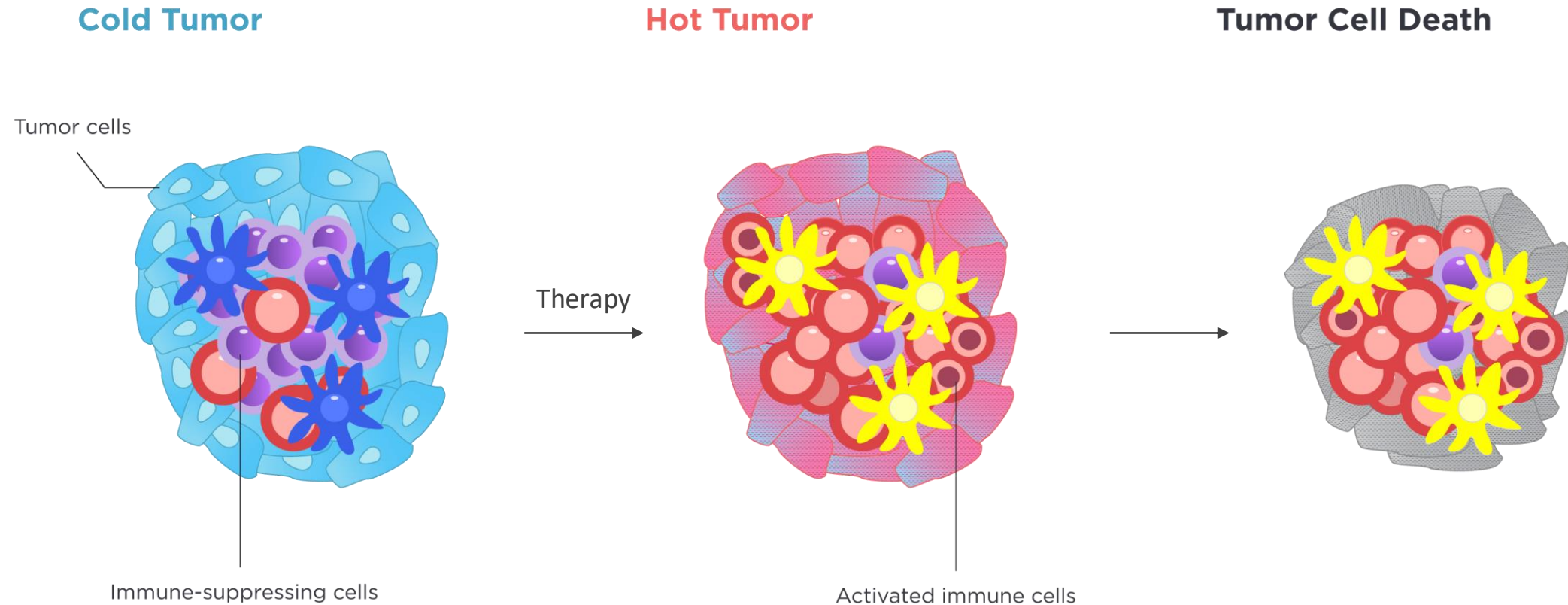
Applying the Untapped Power of Innate Immunity To Enhance the Potential of Cancer Immunotherapies



Our Early Pipeline Harnesses the Immune System via Multiple Approaches



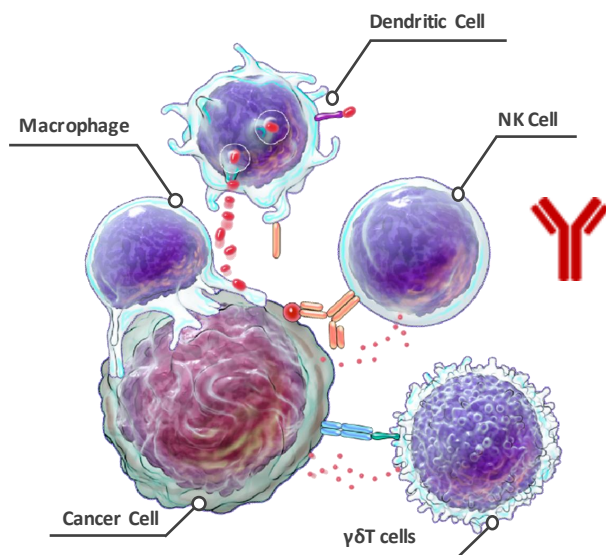
“Cold-to-Hot” Tumor Transitions: Enhancing the Immune System’s Recognition of Cancer to Drive Immune Activation and Tumor Regression



Cold-to-Hot

TAK-981: Novel SUMOylation Inhibitor with the Potential to Drive Immune Responses through Multiple MOAs

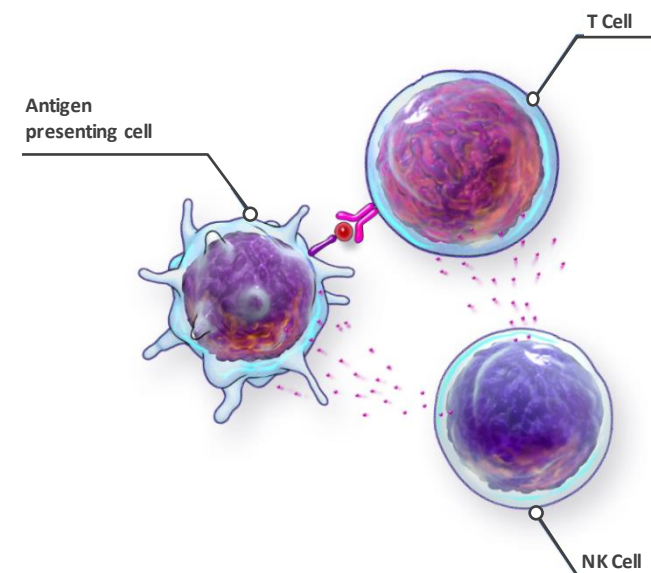
Activation of innate response enhances antibody dependent cytotoxicity and synergizes with mAbs



mAb combo evaluation



Innate immune cells are “early responders” to orchestrate the immune response and activate adaptive immune cells



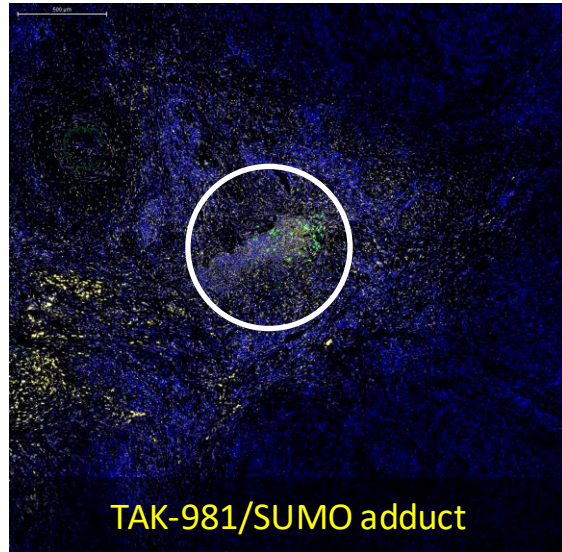
Anti-PD-1 combo evaluation

TAK-981 removes the brakes on endogenous interferon (IFN) signaling to enhance both innate and adaptive anti-tumoral immunity

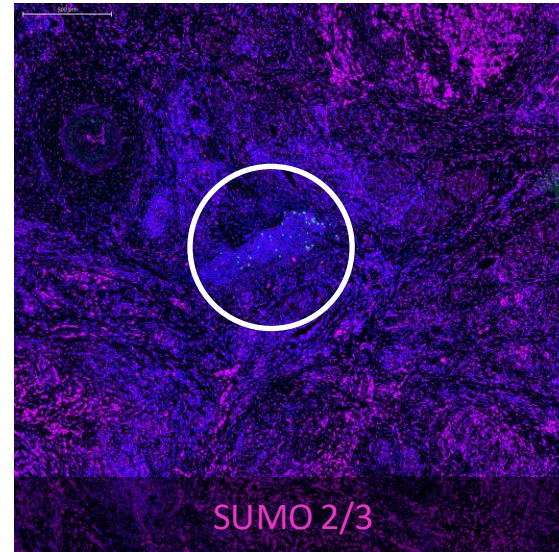
Cold-to-Hot

TAK-981: Evidence of Target Engagement, Interferon Pathway and Immune Cell Activation

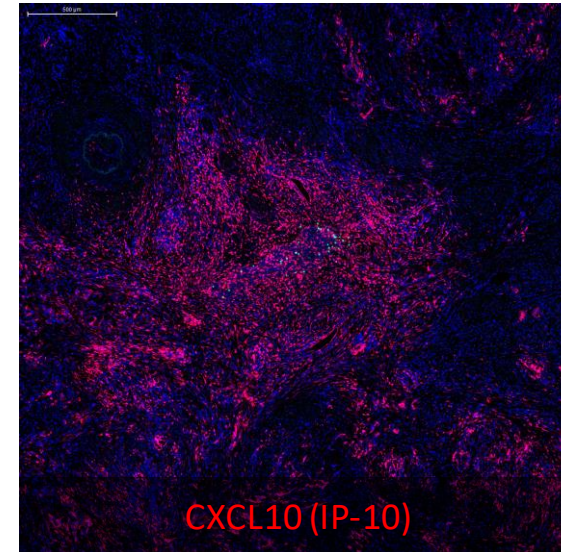
Phase 0 micro-dosing study in progress (Presage translational system)*



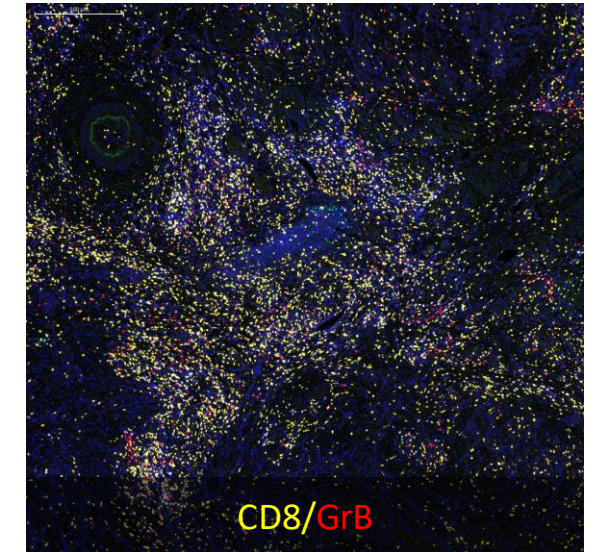
**TAK-981
bound to target**



**SUMO
pathway inhibition**



**Warming of
tumor**



**Evidence of
T cell activation**

**Images are from head and neck squamous cell carcinoma (SCC) patient*

Presage Technology



Cold-to-Hot

TAK-981: Exploring Combination and Single-Agent Approaches

Proof-of-mechanism and early clinical data expected 2H FY21 through FY22

Ongoing Single-Agent Study

Ph1 First-in-Human (Dose-Escalation): TAK-981 in advanced or metastatic solid tumors or relapsed/refractory hematologic malignancies*

Ongoing Combination Studies

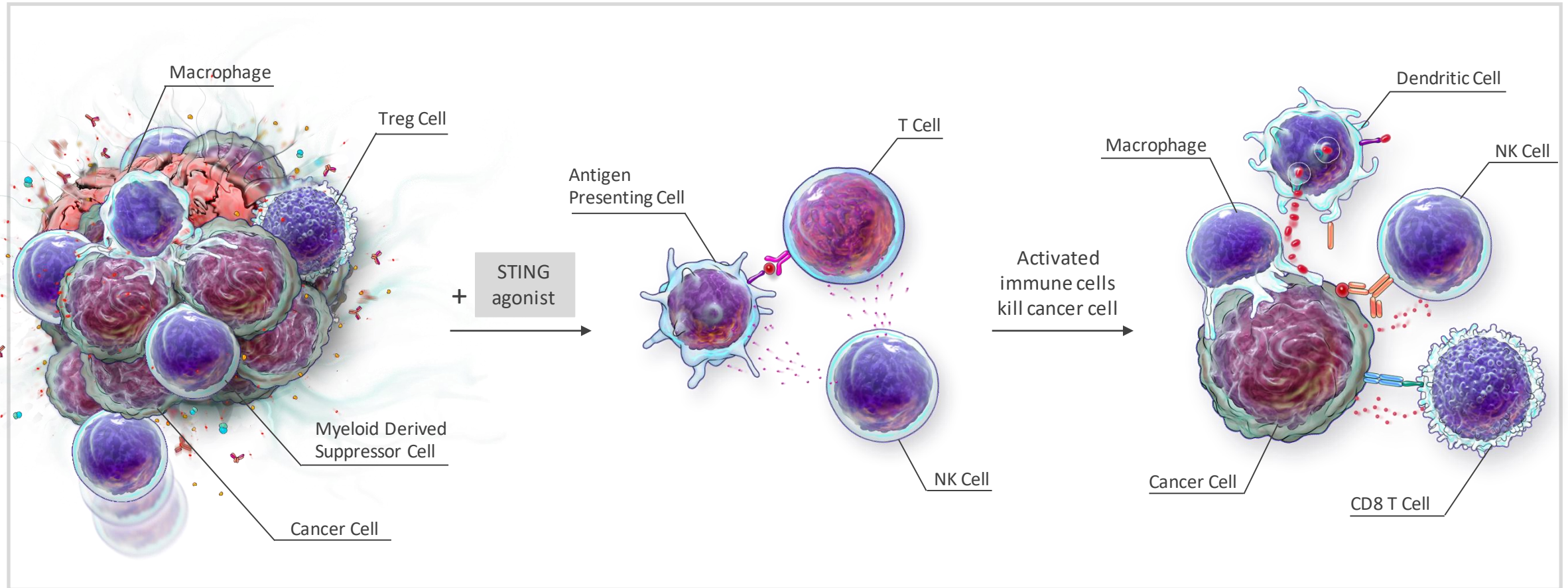
Ph1/2: TAK-981 + rituximab in relapsed/refractory CD20-positive non-Hodgkin lymphoma

Ph1b/2: TAK-981 + anti-CD38 (daratumumab) in relapsed/refractory multiple myeloma

Ph1b/2: TAK-981 + PD1 (pembrolizumab) in select advanced or metastatic solid tumors

*Trial-in-progress poster presented at ASCO (Abstract TPS2667)

STING Agonists: Modulate Key Interferon Pathways With the Potential To Drive a Potent Anti-Tumor Immune Response



STING (*selective agonist of STimulator of INterferon Genes*) activates multiple innate and adaptive immune mechanisms, overcoming immune suppression to propel the cancer-immunity cycle

Cold-to-Hot

STING: Development Programs

Ongoing TAK-676 Studies

Ph1 First-in-Human (Dose-Escalation): TAK-676 alone and in combination with pembrolizumab in advanced or metastatic solid tumors*

Ph1 (Dose-Escalation): TAK-676 plus pembrolizumab following radiation therapy in select solid tumors after progression on checkpoint inhibitors

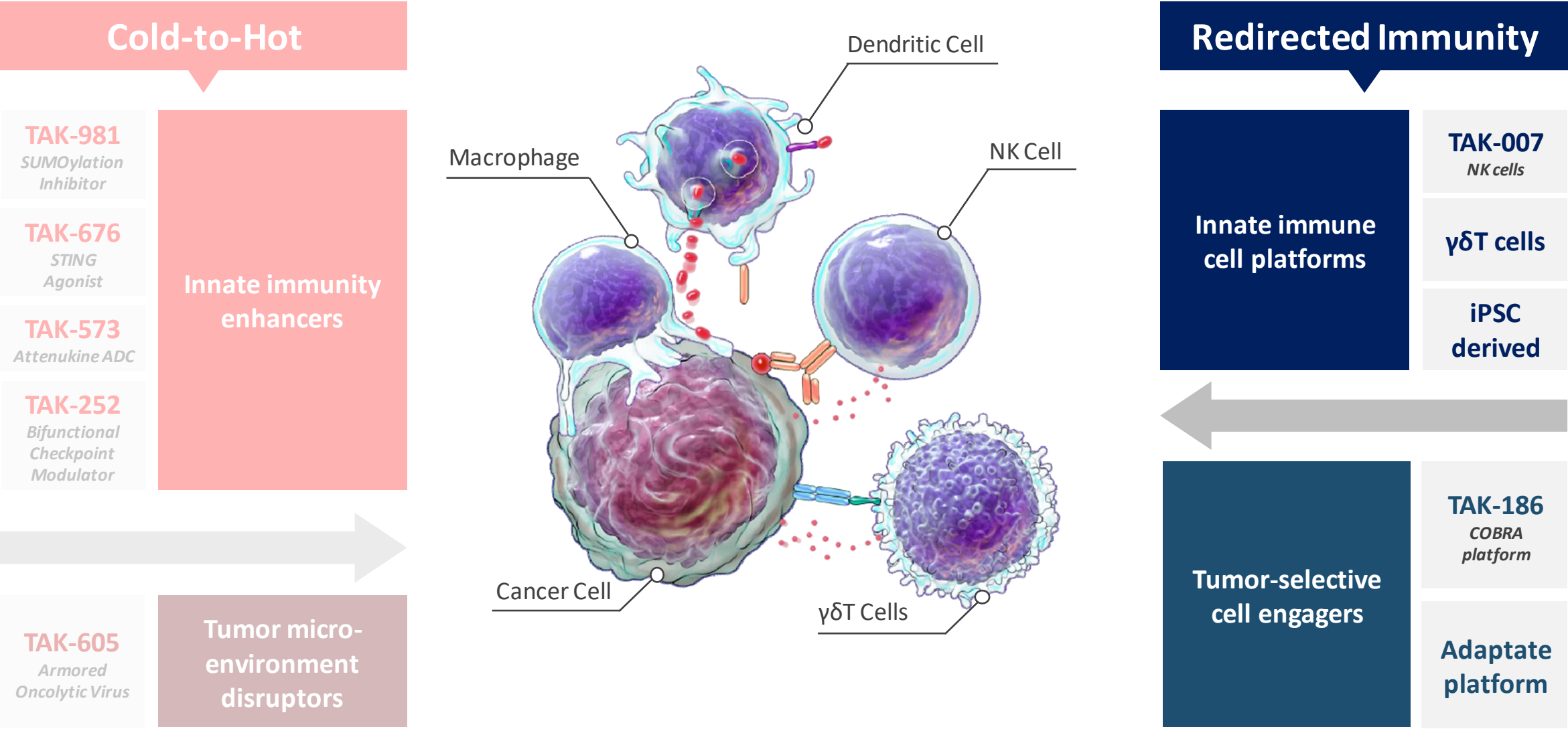
Phase 0 (Non-interventional; Presage): TAK-676 in combination with chemotherapy via intra-tumoral micro-dosing in head and neck tumors

STING ADC in Development

TAK-500 is a targeted antibody drug conjugate (ADC) STING agonist with a **payload of TAK-676**. Expected to enter the clinic in FY21.

*Trial-in-progress poster presented at ASCO (Abstract TPS2670)

Our Early Pipeline Harnesses the Immune System via Multiple Approaches



Multiple Innovative Allogeneic Cell Therapy Platforms Leverage the Power of Innate Immune Biology

Innate immune cell platforms

CAR NKs

Potent tumor killing cells with potential to orchestrate T cell responses

- NK cells naturally attack tumor cells
- Armoring them with a CAR further enhances their activity against tumor cells

**MDAnderson
Cancer Center**

$\gamma\delta$ T cells

Potential advantages in addressing solid tumors

- Potent anti-tumor activity that is not antigen-specific (different from traditional T cells)
- Recognizes a broad spectrum of antigens on tumor cells

 **GAMMADELTA**
THERAPEUTICS

iPSC derived

Universal innate immune cell-based iPSC platforms

- Scalable, programmable biology with vial-to-vial comparability

T-CiRA

Allogeneic Cell Therapies Have the Potential to Improve Patient Access to Transformative Cancer Treatments

MEET PATIENTS WHERE THEY ARE

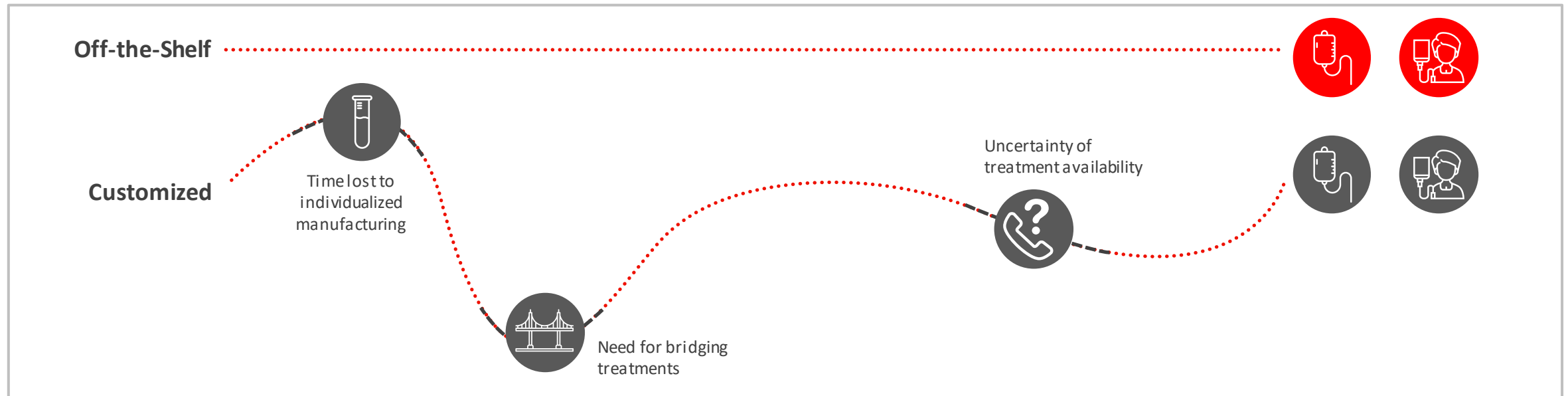
Delivered beyond large hospitals or academic medical centers – availability at community oncology centers can reduce travel burden on patients

OFF-THE-SHELF

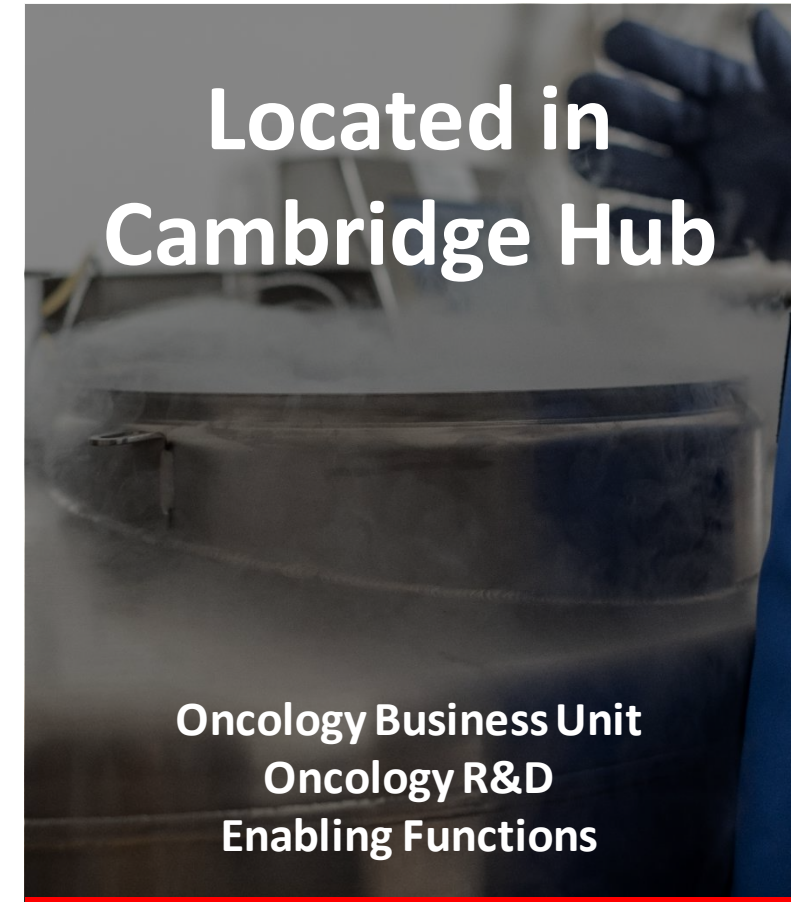
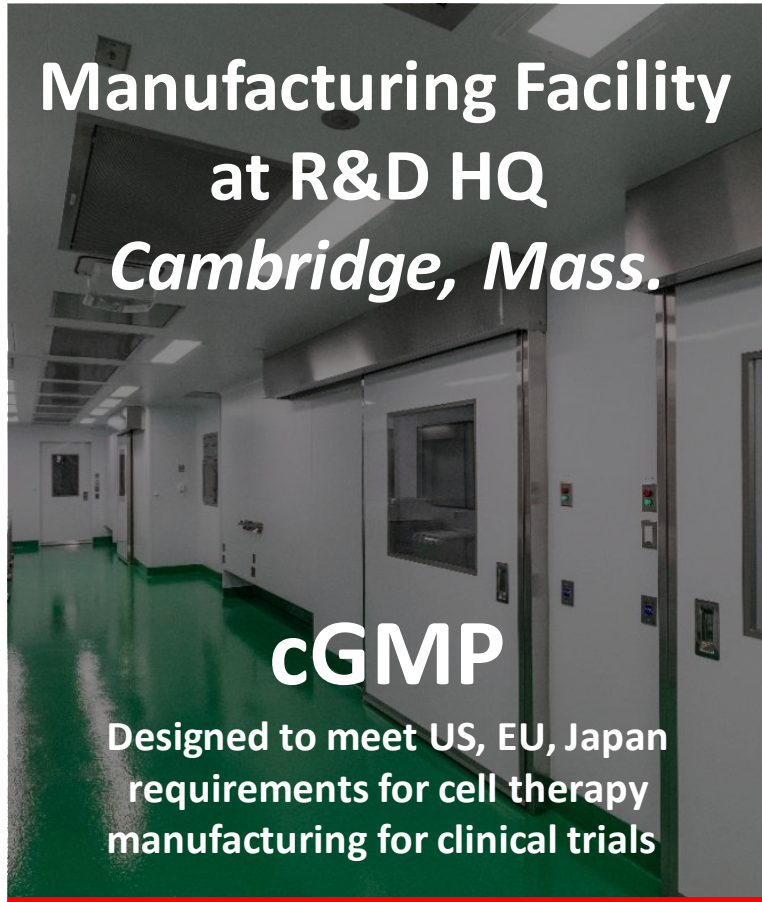
Can be made readily available for patients, reducing wait time for therapy and increasing convenience

ELIMINATE BRIDGING TREATMENTS

No wait period between patient cell harvest and administration



End-to-End Cell Therapy Development Capabilities with State-of-the-Art Manufacturing Facilities



TAK-007: Off-the-Shelf, Cryopreserved IL-15 Armored Cord Blood-Derived CD19-Targeted CAR NK Therapy

Ongoing TAK-007 Development

Building on work of MD Anderson Cancer Center team
Cryo-formulation development and process refinement

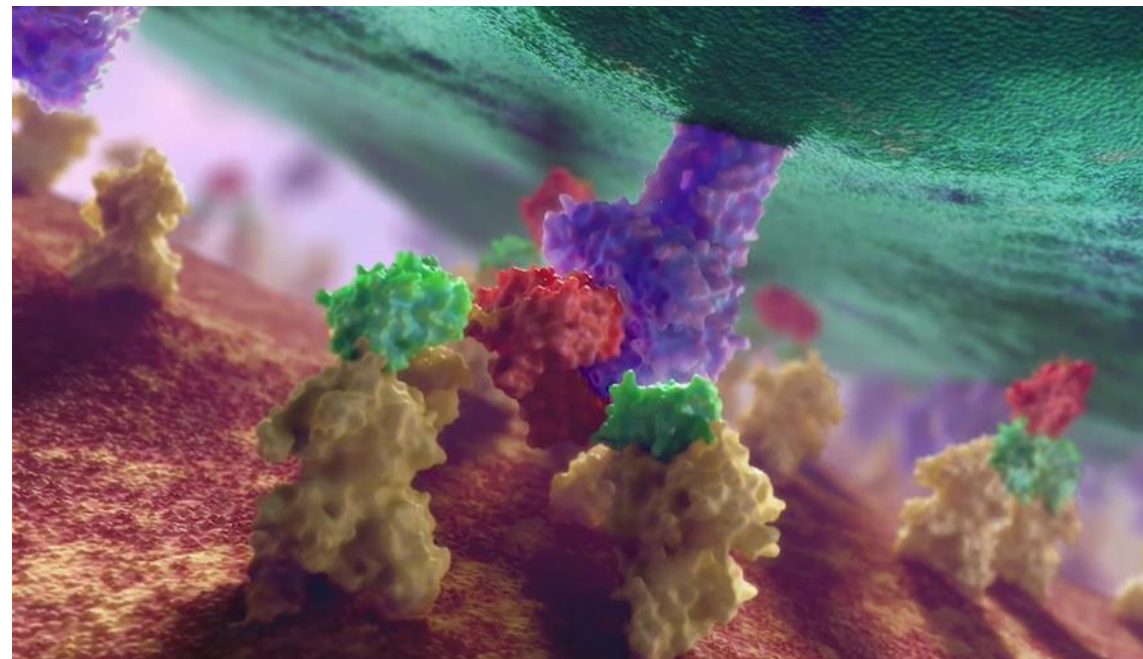
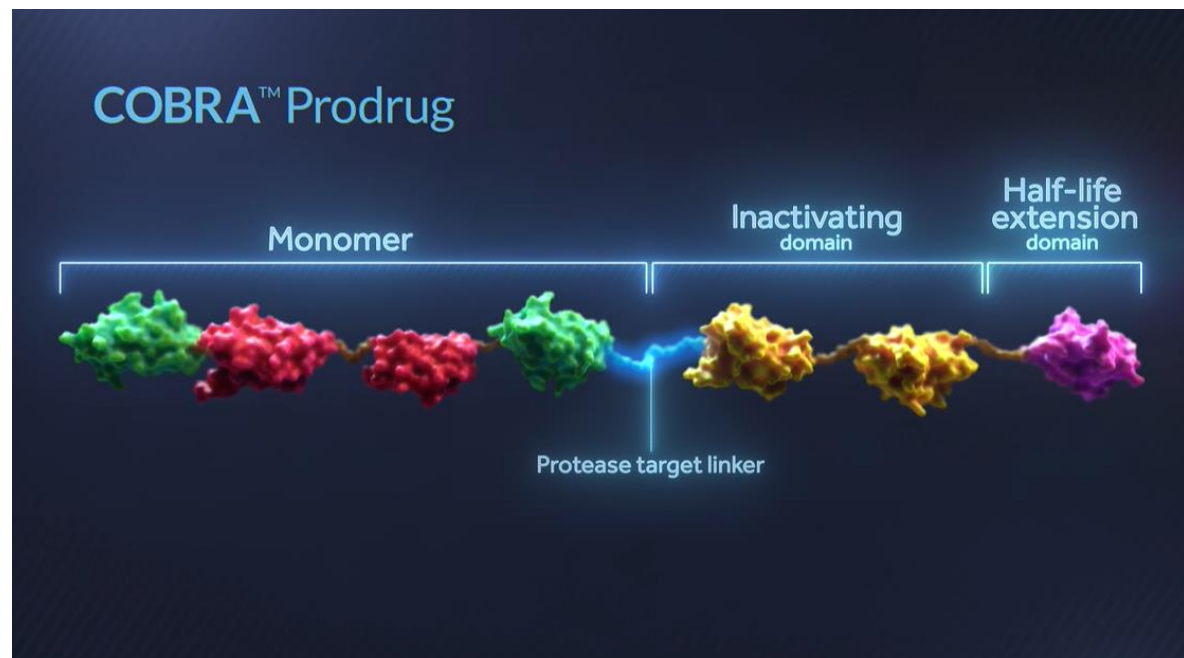
Submission of Takeda-sponsored IND on track: To facilitate start of Phase 2 study to evaluate Takeda formulation of TAK-007

Upcoming for TAK-007

Ph2 Part 1: Establishing safety/dosing of TAK-007 (Takeda formulation) – target start 1H FY21

Ph2 Part 2: Registration-enabling – target start FY22

COBRA Platform: Differentiated T Cell Engagers Specifically Designed To Allow Targeting of Solid Tumors



COBRA molecules are half-life extended T cell engagers designed to be conditionally activated in solid tumor microenvironments

COBRA: Development Programs

Ongoing TAK-186 Clinical Study Targeting EGFR

Ph1/2 (Dose-Escalation): TAK-186 in EGFR-expressing, unresectable, locally advanced or metastatic solid tumors

Additional COBRA Molecules in Development

TAK-280: Targets B7H3-expressing cancers (solid tumor); expected to enter clinic in 2H FY21

Additional programs are in preclinical development; moving rapidly on candidate selection

Strong Growth for In-Market Therapies

FY20 launch
successes drive rapid,
consistent growth

Near-Term Pipeline Milestones

Multiple clinical readouts,
regulatory decisions in the
next
12-18 months

Broad Potential with Early Pipeline

Harnessing the
innate immune system
through multiple
platforms



Inspiration from **Patients.**
Innovation from **Everywhere.**



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Questions & Answers



Teresa Bitetti

*President, Global Oncology
Business Unit*



Chris Arendt, PhD

*Head, Oncology
Therapeutic Area Unit*



**Andrew Plump,
MD, PhD**

*President, Research &
Development*



Dion Warren

*Vice President, Head of U.S.
Oncology Business Unit*



Erkut Bahceci, MD

*Vice President, Head of
Clinical Science*

Upcoming Investor Events

**ANNUAL GENERAL MEETING
OF SHAREHOLDERS**

JUNE 29, 2021 | TUESDAY

FINANCE STRATEGY DAY

JULY 12, 2021 ET | JULY 13, 2021 JST

FY2021 Q1 EARNINGS CALL

JULY 30, 2021 | FRIDAY

FY2021 Q2 EARNINGS CALL

OCTOBER 28, 2021 | THURSDAY



THANK YOU FOR ATTENDING!

If further questions (or if not answered), please email
takeda.ir.contact@takeda.com