



TAKEDA ONCOLOGY

WE ASPIRE TO CURE CANCER

June 8, 2020



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Financial information

Takeda’s financial statements are prepared in accordance with International Financial Reporting Standards (“IFRS”).

The revenue of Shire plc (“Shire”), which was historically presented by Shire in accordance with accounting principles generally accepted in the United States (“U.S. GAAP”), has been conformed to IFRS, without material difference.

The Shire acquisition closed on January 8, 2019, and our consolidated results for the fiscal year ended March 31, 2019 include Shire’s results from January 8, 2019 to March 31, 2019. References to “Legacy Takeda” businesses are to our businesses held prior to our acquisition of Shire. References to “Legacy Shire” businesses are to those businesses acquired through the Shire acquisition.

This presentation includes certain pro forma information giving effect to the Shire acquisition as if it had occurred on April 1, 2018. This pro forma information has not been prepared in accordance with Article 11 of Regulation S-X. This pro forma information is presented for illustrative purposes and is based on certain assumptions and judgments based on information available to us as of the date hereof, which may not necessarily have been applicable if the Shire acquisition had actually happened as of April 1, 2018. Moreover, this pro forma information gives effect to certain transactions and other events which are not directly attributable to the Shire acquisition and/or which happened subsequently to the Shire acquisition, such as divestitures and the effects of the purchase price allocation for the Shire acquisition, and therefore may not accurately reflect the effect on our financial condition and results of operations if the Shire acquisition had actually been completed on April 1, 2018. Therefore, undue reliance should not be placed on the pro forma information included herein.

Agenda

All times below in Eastern Daylight Time (EDT)

8:00 – 8:05 *Costa Saroukos, Chief Financial Officer*

8:05 – 8:20 *Teresa Bitetti, President, Global Oncology Business Unit*

- Takeda Overview
- Oncology Portfolio
- Commercial Updates

8:20 – 8:40 *Chris Arendt, Head of Oncology R&D*

- Oncology Congress Data
- Pipeline Updates

8:40 – 9:00 Question & Answer Session

Today's presenters





Takeda Oncology Overview



TERESA BITETTI

President, Global Oncology Business Unit



TAKEDA HAS BEEN PUTTING
PATIENTS FIRST

FOR OVER
TWO CENTURIES

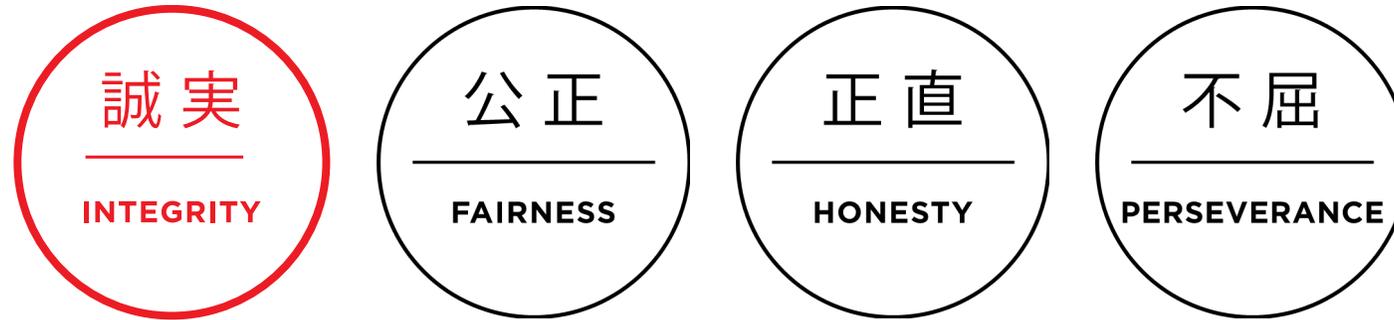
Since 1781, Takeda has been answering the question:
How can we do more for patients?

Takeda is a global, values-based, science-driven biopharmaceutical leader headquartered in Japan, committed to bringing **Better Health and a Brighter Future** to patients by translating science into highly innovative medicines.

Our values define who we are and how we operate



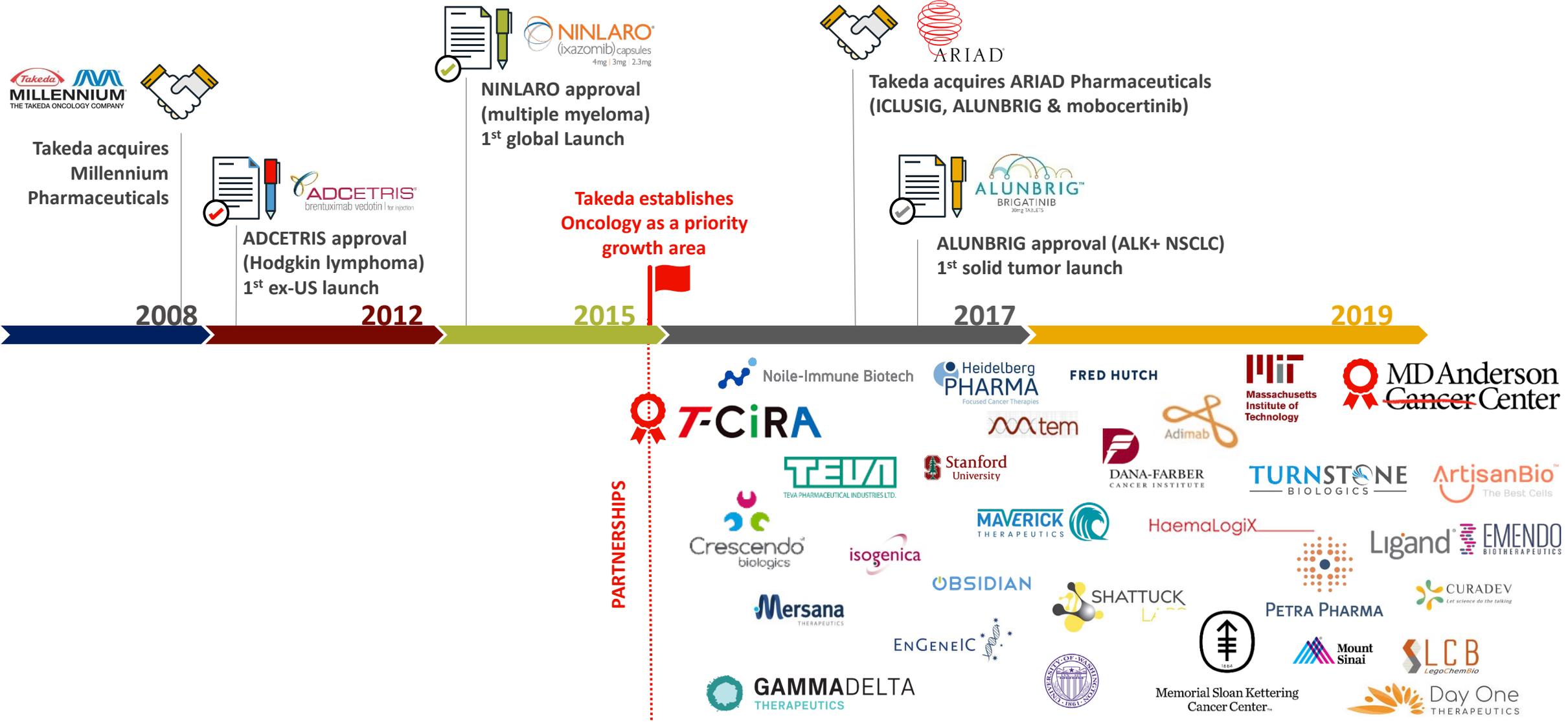
TAKEDA-ISM



We make decisions and take actions by focusing on the following priorities in this order:



Takeda has built a solid foundation in oncology



Takeda Oncology has built a portfolio of global and regional oncology therapies spanning both hematologic malignancies and solid tumors

WE ASPIRE TO CURE CANCER

Where we are

A leader in hematology
+ Strong growth based on
execution

What's next

Build on expertise through
expanded indications + new
product launches

Looking toward the future

Differentiated I/O platforms
and partnerships

Oncology Business Unit uniquely structured within Takeda to fit the needs of the cancer community



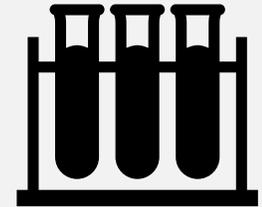
Leadership team and support to shepherd future growth



Structured for agility, on a legacy foundation



Proven growth and consistent performance



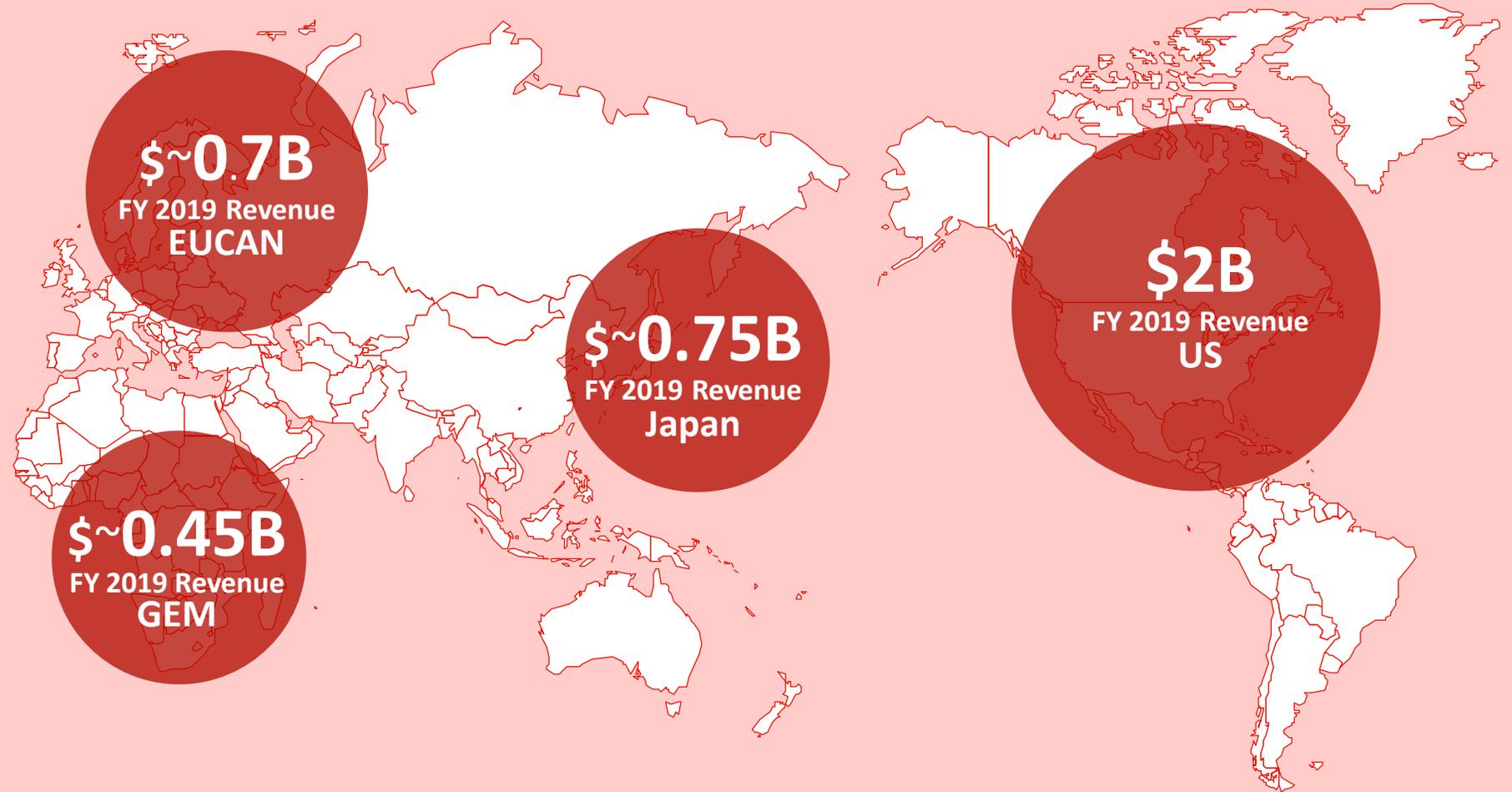
Diverse and robust pipeline

We have a strong presence across major regions



**Global Oncology
Revenue FY19:
\$~3.9B USD**

**More than 70 Countries
Supported by Oncology**



\$~0.7B
FY 2019 Revenue
EUCAN

\$~0.75B
FY 2019 Revenue
Japan

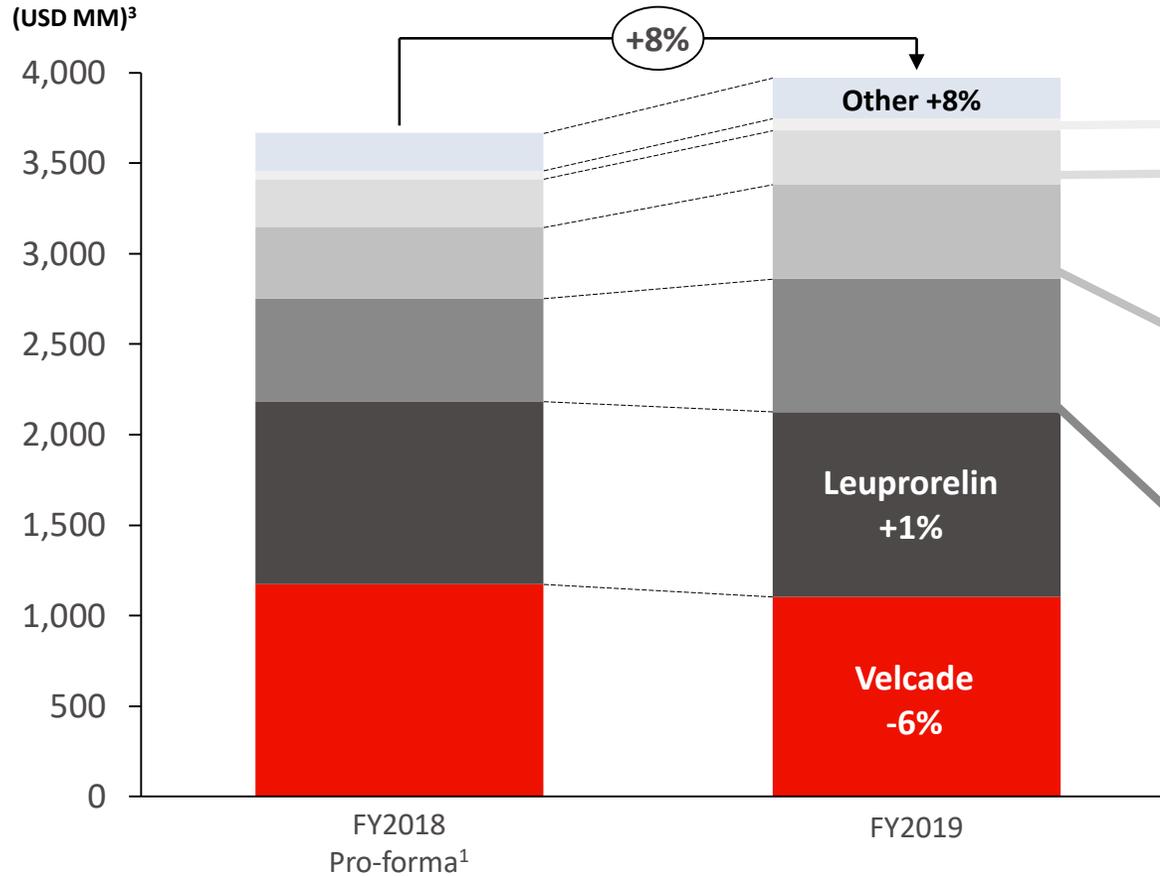
\$2B
FY 2019 Revenue
US

\$~0.45B
FY 2019 Revenue
GEM

Key global and regional therapies fuel growth



ONCOLOGY PORTFOLIO FY2019, UNDERLYING REVENUE GROWTH¹



 ALUNBRIG™ BRIGATINIB 30mg TABLETS	+43% \$66MM USD
 ICLUSIG™ (ponatinib) tablets	+13% \$291MM USD
 ADCETRIS® ² brentuximab vedotin for injection	+33% \$484MM USD
 NINLARO® (ixazomib) capsules 4mg 3mg 2.3mg	+29% \$712MM USD

1. Legacy Shire's oncology revenue excluded
 2. ADCETRIS is in-licensed from Seattle Genetics; Takeda has development and marketing rights outside of the U.S. and Canada
 3. Calculated to USD for reference at JPY/USD of 109 yen.
 Note: Absolute values are presented on an IFRS (reported) basis, calculated to USD for reference at JPY/USD of 109 yen



FIRST APPROVAL IN MAINTENANCE SETTING

- First approval in maintenance setting (post-SCT) granted in Japan in March 2020
- TOURMALINE-MM2 (frontline) did not meet primary endpoint; TOURMALINE-MM4 and US MM-6 data to be presented at EHA.



APPROVALS IN NEWLY DIAGNOSED CD30+ PTCL AND R/R sALCL + HL

- Approved in the EU for previously untreated sALCL and in Japan, Brazil and South Korea for frontline PTCL
- Approved in China for relapsed or refractory system sALCL or Hodgkin lymphoma



PRACTICE-CHANGING DATA READOUT

- OPTIC 2 data at ASCO show optimal benefit-risk profile in patients with difficult-to-treat CP-CML



FIRST APPROVAL FOR FIRST-LINE USE

- Approved by the FDA and EU Commission as a first-line treatment for ALK+ advanced NSCLC based on results of ALTA 1L trial
- Filed in Japan in February 2020 for patients who have progressed after treatment with another ALK inhibitor



NEW LAUNCH IN JAPAN

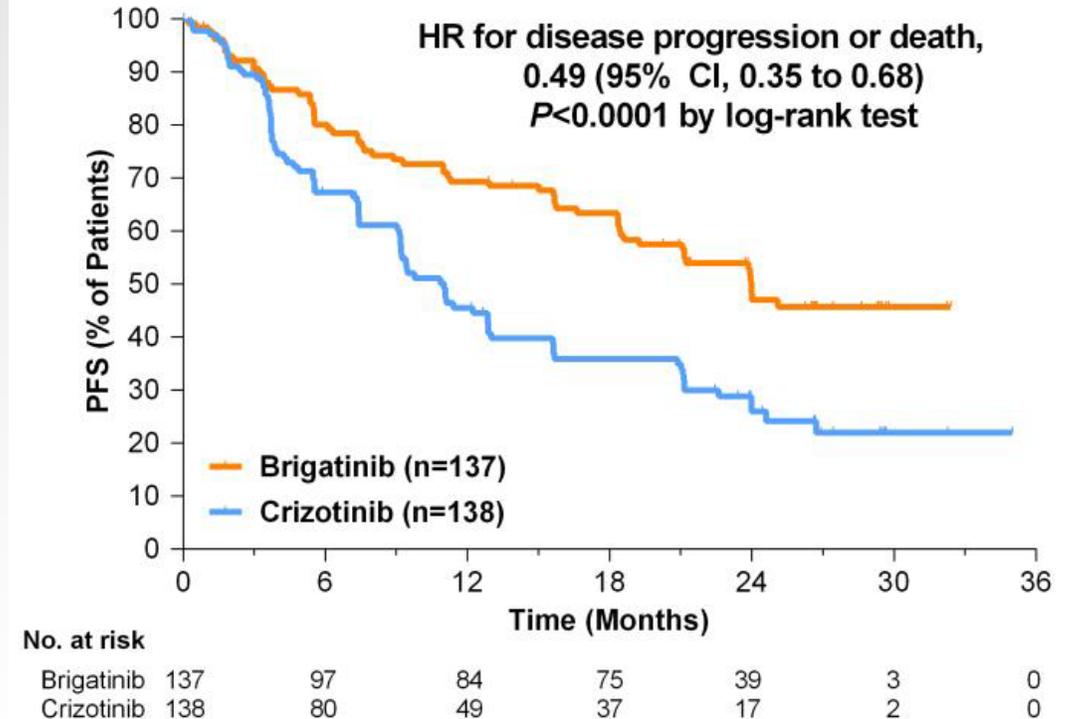
- Now available as a treatment for patients with curatively unresectable or metastatic renal cell carcinoma (RCC)

ALUNBRIG achieves two early approvals in Q1, offers benefit for patients with brain metastases



- Granted **early approval by European Commission (EC)** in April as a monotherapy for adults with ALK+ NSCLC
- Received **U.S. FDA approval** as a first-line treatment for adults with ALK+ metastatic NSCLC as detected by an FDA-approved test in May, one month before PDUFA
- In the Phase 3 ALTA 1L trial, ALUNBRIG demonstrated.*
 - **Superior long-term efficacy** compared to crizotinib
 - **Superior efficacy in patients with brain metastases** at baseline with a confirmed intracranial ORR of 78% (95% CI: 52–94) versus 26% (95% CI: 10–48) with crizotinib
 - A safety profile generally consistent with the existing U.S. prescribing information

PFS



Treatment	No. (%) of Patients With Events	Median PFS (95% CI)	2-Year PFS, % (95% CI)
Brigatinib (n=137)	63 (46)	24.0 mo (18.5–NR)	48 (39–57)
Crizotinib (n=138)	87 (63)	11.0 mo (9.2–12.9)	26 (18–35)

*As assessed by blinded independent review committee

10

Approved therapies
with opportunities for
label expansion

3

New Molecular
Entities expected
to launch by 2024

Because patients
are waiting for
new treatment
options ...



Oncology Congress Data



CHRIS ARENDT

Head of Oncology R&D

We have recently presented compelling new data for some of our key therapies and late-stage pipeline



ALUNBRIG™
BRIGATINIB
30mg TABLETS

NINLARO®
(ixazomib) capsules
4mg | 3mg | 2.3mg

**TOURMALINE
MM4**

ICLUSIG™
(ponatinib) tablets

OPTIC IA

ADCETRIS®
brentuximab vedotin | for injection

pevonedistat

P2001 POC

Potentially practice-changing study data drives momentum for continued ICLUSIG growth



- ICLUSIG is the only third-generation pan-BCR-ABL1 inhibitor for CML and Ph+ ALL
- Data from OPTIC study presented at ASCO and EHA 2020 provides impetus for continued growth

Historical Challenges

Impetus for Continued Growth

1

Lack of clear dosing recommendation



✓ Clarification on dosing regimen delivering optimal benefit

2

Fear of cumulative and high AOE rates



✓ Refined understanding of AOE rates

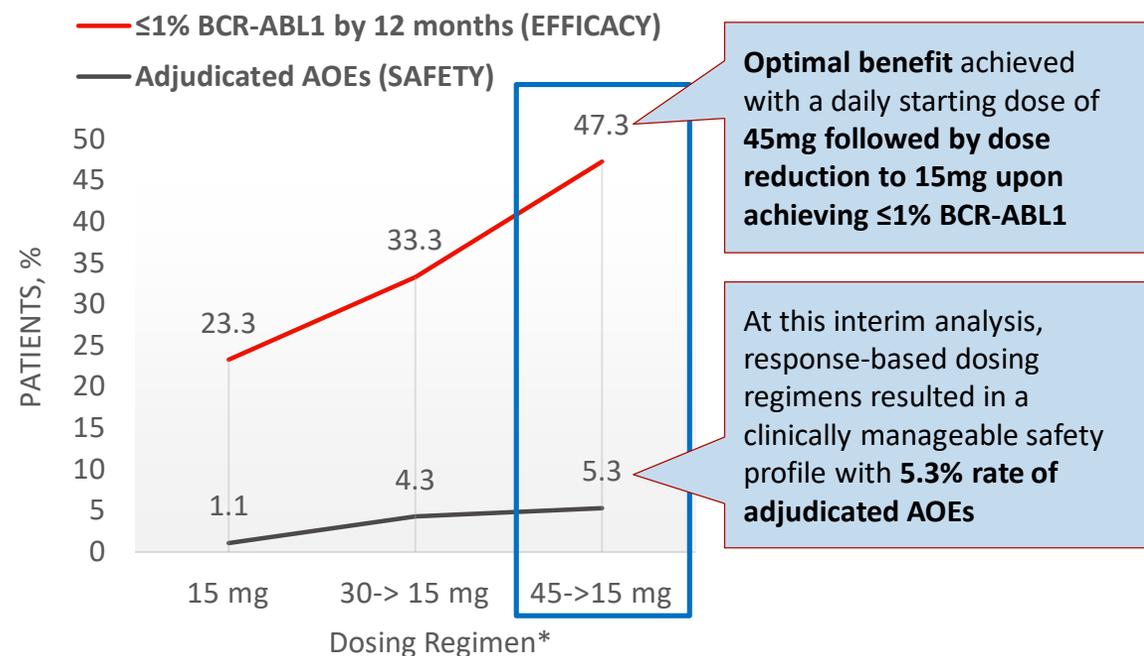
3

Niched perceptions and use of ICLUSIG



✓ Clarification of benefit-risk of ICLUSIG

OPTIC Study Data: Potentially Practice-Changing for the Treatment of CP-CML



Note: AOE=Arterial Occlusive Events

*Patients starting on 45mg or 30mg had mandatory dose reduction to 15mg upon achieving ≤1% BCR-ABL1

Maintenance treatment in MM patients not eligible for stem cell transplant supports NINLARO as a safe and effective drug



PHASE 3 TOURMALINE-MM4 DATA

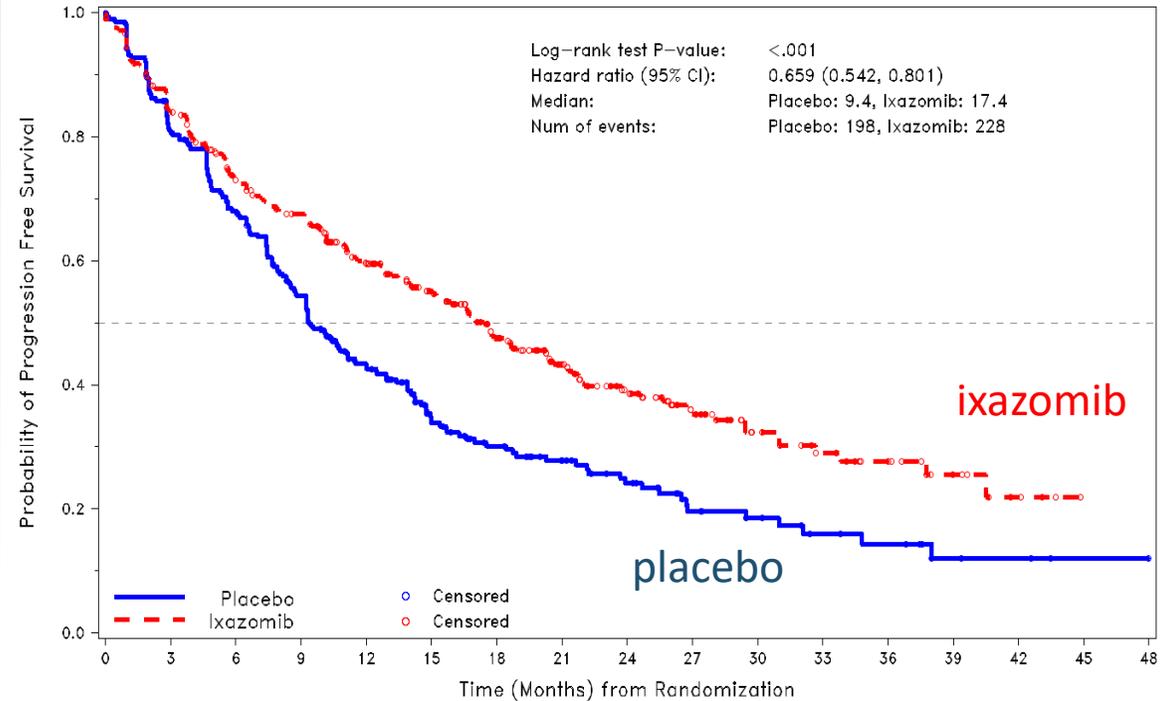


Significant overall improvement, including 17.4 month median PFS compared with 9.4 months on placebo, and an overall 34% reduction in risk of progression / death

Well-tolerated safety profile, consistent with previously reported single-agent use

First oral PI maintenance option for non-ASCT NDMM patients.

PFS



NINLARO addresses the need for an oral, tolerable proteasome inhibitor amenable to long-term administration

* Ixazomib starts at 3 mg, and may escalate to 4 mg after 4 cycles if eligible

Pevonedistat (TAK-924) results highly encouraging, particularly in HR-MDS, a patient group with no new treatments in over a decade



PHASE 2 P2001 PROOF OF CONCEPT DATA

Benefit across multiple clinically meaningful endpoints in HR-MDS subgroup; adding pevonedistat to azacitidine doubled CR, and demonstrated potential to improve outcomes (OS, EFS¹)

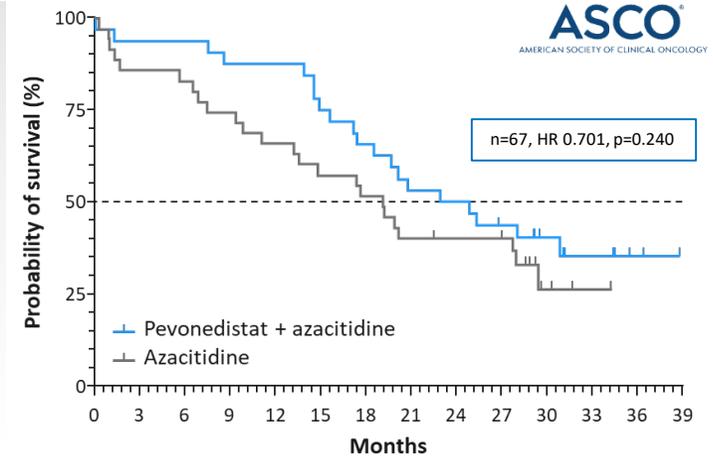
Safety profile similar to azacitidine alone

Phase 3 PANTHER trial fully enrolled; **potential to be the first novel agent for HR-MDS in over a decade**

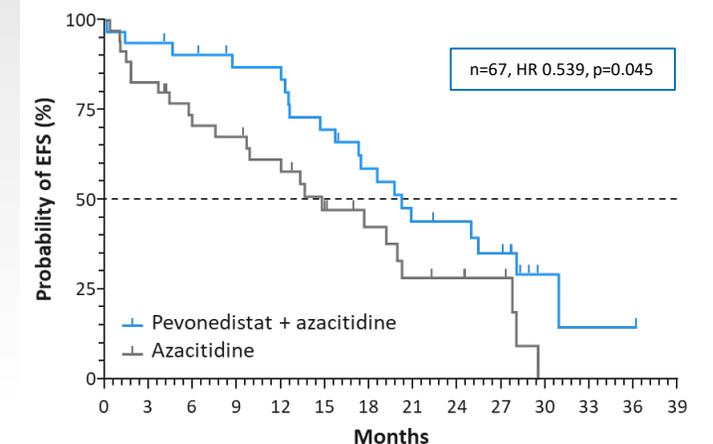
Addressable Patients ²	Next Inflection
7k US 15-20k WW	2H FY20: Ph 3 PANTHER pivotal readout

HR-MDS

OS



EFS¹



1. EFS: Event Free Survival, defined as death or transformation to AML

2. HR-MDS



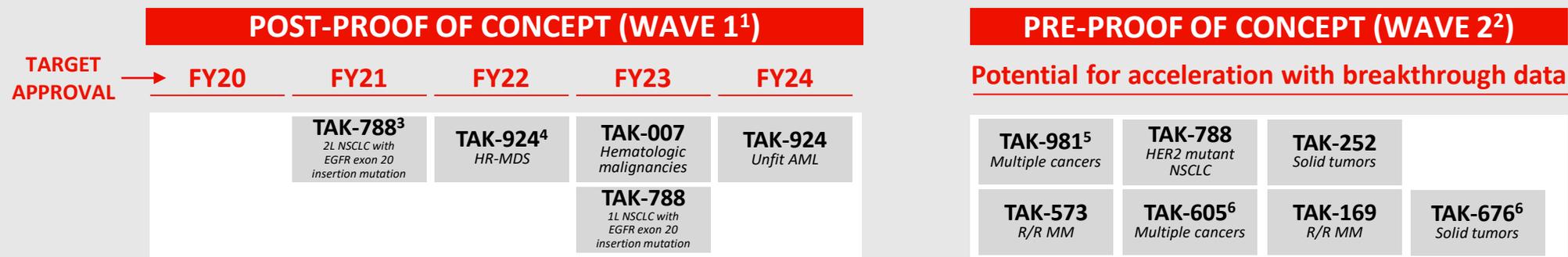
Oncology Pipeline Updates



We are rapidly advancing a modality-diverse pipeline of meaningful near-term NMEs and differentiated immuno-oncology platforms



ONCOLOGY CLINICAL NME PIPELINE



DIFFERENTIATED I/O PLATFORMS AND PARTNERSHIPS

Innate immuno-modulation

Novel-scaffold immune checkpoint platforms and oncolytic virus

Next-gen cell therapy & immune engager platforms

1. Projected approval dates depend on data read-outs; some Wave 1 target approval dates assume accelerated approval
2. Does not include TAK-079, currently in a Phase 1/2 study for R/R MM; TAK-079 will be developed in Rare Diseases indications myasthenia gravis and immune thrombocytopenic purpura
3. Projected approval date assumes filing on Phase 2 data

4. Projected approval date evolving based on emerging data and study progress
5. Wave 2 program with accelerated timeline
6. Expected new additions to the clinical pipeline with FPI projected in 1H FY20

All timelines are current best estimates and are subject to change due to COVID-19

New medicines delivering near-term hope to patients, including mobocertinib, which received US FDA Breakthrough Therapy Designation



mobocertinib¹ (TAK-788)

POTENTIAL NEW STANDARD OF CARE FOR A SUBSET OF NSCLC PATIENTS WITH EXON 20 INSERTIONS



pevonedistat (TAK-924)

PEVONEDISTAT IS POISED TO DELIVER MEANINGFUL PROGRESS IN HR-MDS AND AML

Current Development



Registration enabling Phase 2 in 2L+ NSCLC EGFR exon 20 (data readout 1H FY20)



(1-2% of NSCLC)
Patients: ~4k US | ~20-30k WW

Phase 3 global trial in 1L NSCLC EGFR exon 20

P2001



PANTHER

Patients: ~7k US | ~15-20k WW

PEVOLAM

(Unfit ~50% 1L AML)

Patients: ~12k US | ~20-25k WW

Oral presentation at ASCO² and EHA²
Phase 2 pevonedistat + aza³ vs. aza

Phase 3 in HR-MDS, CMML, LB AML.
pevonedistat + aza vs. aza
(data readout 2H FY20)

Phase 3 in 1L unfit AML.
pevonedistat + aza vs. aza
(data readout FY23⁴)

Expansion Opportunity

HER2 mutant solid tumors
(2-10% of breast, GI, bladder cancers)

Phase 2 TAK-788 + HER2-ADC in HER2 mutant solid tumors start FY20⁴

HER2 mutant NSCLC
(2-4% of NSCLC)
Patients: 2.6k US | ~8k WW

Dose expansion in NSCLC to inform go/no-go for Phase 3 development by FY22

Unfit AML
(Unfit ~50% 1L AML)

Phase 2 in 1L unfit AML
pevonedistat + venetoclax + aza vs. venetoclax + aza.

1. TAK-788 granted Breakthrough Therapy Designation for the treatment of patients with metastatic NSCLC with EGFR exon 20 insertion mutations who have progressed on or after chemotherapy.

2. ASCO: American Society of Clinical Oncology; EHA: European Hematology Association

3. AZA – Azacitidine

4. Impact of COVID-19 could delay timing

Great momentum with 7 INDs filed since the start of FY19 for our early pipeline that harnesses the immune system in multiple manners



	PLATFORM	PARTNER	PRE-CLINICAL	PHASE 1/2 ¹
INNATE IMMUNO-MODULATION	Attenukine™			<u>TAK-573</u> CD38-Attenukine R/R MM
	STING modulation		TAK-500 STING-ADC Solid Tumors	<u>TAK-676</u> STING Agonist Solid Tumors
	SUMOylation			<u>TAK-981</u> SUMO inhibitor Multiple cancers
NOVEL-SCAFFOLD IMMUNE CHECKPOINT PLATFORMS AND ONCOLYTIC VIRUS	Agonist-redirected checkpoints		TAK-254 CSF1R-Fc-CD40L SL-115154 Solid Tumors	TAK-252 PD-1-Fc-OX40L SL-279353 Solid Tumors
	Oncolytic virus		Undisclosed	<u>TAK-605</u> FLT3L/mbIL12/anti-CTLA4 Solid Tumors
	Humabody Vh		Undisclosed	
NEXT-GEN CELL THERAPY & IMMUNE ENGAGER PLATFORMS	CAR-NK		BCMA and two other targets	TAK-007 CD19 CAR-NK Heme malignancies
	Cytokine + chemokine armed CAR-T		NIB-103	<u>TAK-102</u> GPC3 CAR-T Solid Tumors
	Next-gen CAR-T signaling domain		Undisclosed	<u>TAK-940</u> CD19-1XX CAR-T Heme malignancies
	Gamma delta T cells		GDX012	
	Conditional T cell engagers		TAK-186 EGFR-COBRA™ Solid Tumors	
OTHER	Shiga-like toxin A		Undisclosed	<u>TAK-169</u> CD38-SLTA R/R MM
	CD38			<u>TAK-079</u> Anti-CD38 mAb R/R MM

3 clinical-stage cell therapies

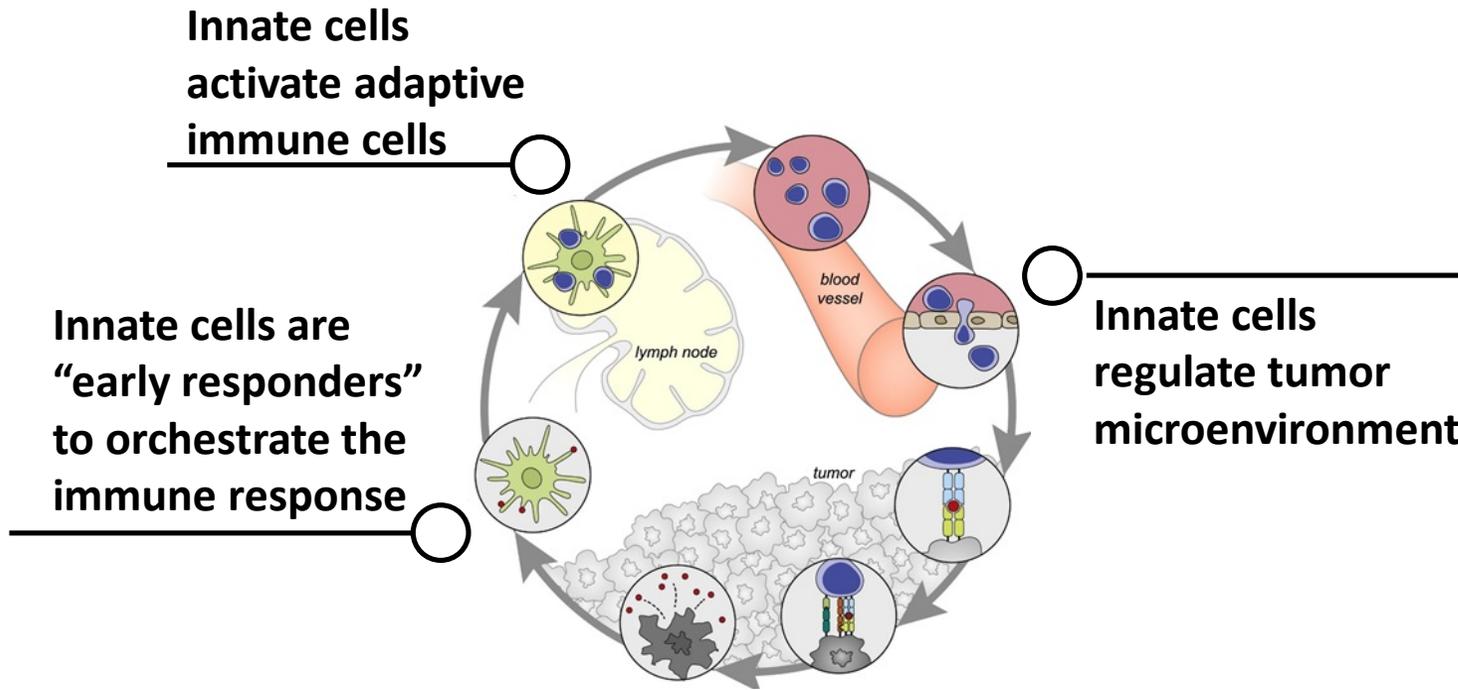
1. Includes Ph 1/2-ready programs with IND/CTN clearance

Underline = IND filed since start of FY19

Takeda is a leader in applying the power of innate immunity to overcome limitations of current immunotherapies



THE CANCER IMMUNITY CYCLE REQUIRES INNATE IMMUNITY



Adapted from Chen & Mellman, *Immunity* 2013

MECHANISMS OF ACTION LEVERAGING INNATE IMMUNITY MAY ENHANCE BREADTH, DEPTH, AND DURABILITY OF RESPONSE

NK cells

SUMOylation inhibition

STING modulation

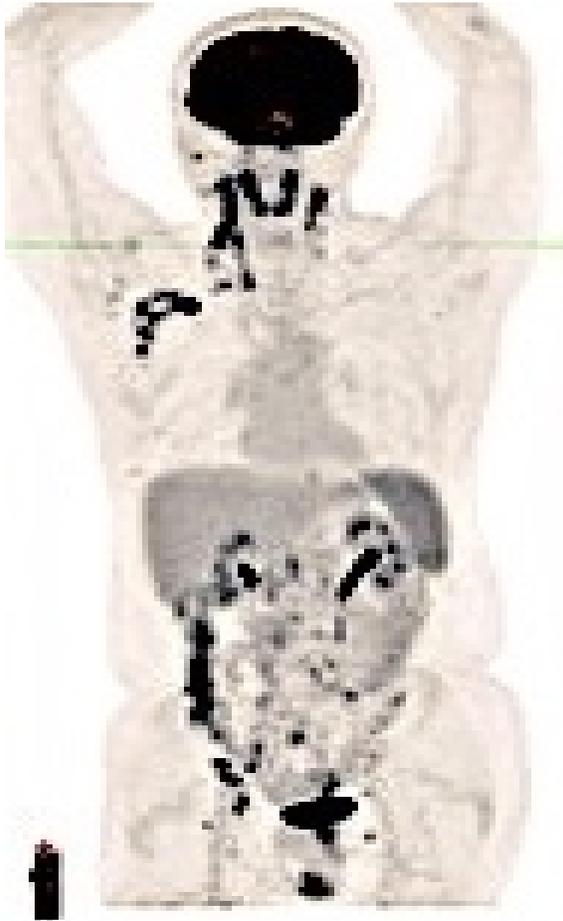
Attenukine™ platform

Oncolytic virus platform

TAK-007 exhibits best-in-class potential for an off-the-shelf and better tolerated CD19 cell therapy

47-year old male with relapsed transformed double-hit (c-myc / bcl-2) dlbcl

Baseline Scan



Day 30 Post CAR19-NK



Data from Dr. Katy Rezvani, MD Anderson Cancer Center

THE MOST ADVANCED CAR-NK THERAPY

- Phase 1/2: **complete responses in 8 of 11 patients** in heavily pretreated patients with B cell lymphomas*
- **No CRS, neurotoxicity or GVHD observed**
- Phase 1/2 expansion cohorts enrollment ongoing in CD19+ B cell malignancies

Addressable Patients	Next Inflection
~9k US ~15-25k WW	2H FY20: Treat first patient with off-the-shelf cryopreserved product



"I didn't have any other options ... But it was scary knowing I would be No. 8 and would be getting the biggest dose ... I still get emotional when I talk about it."

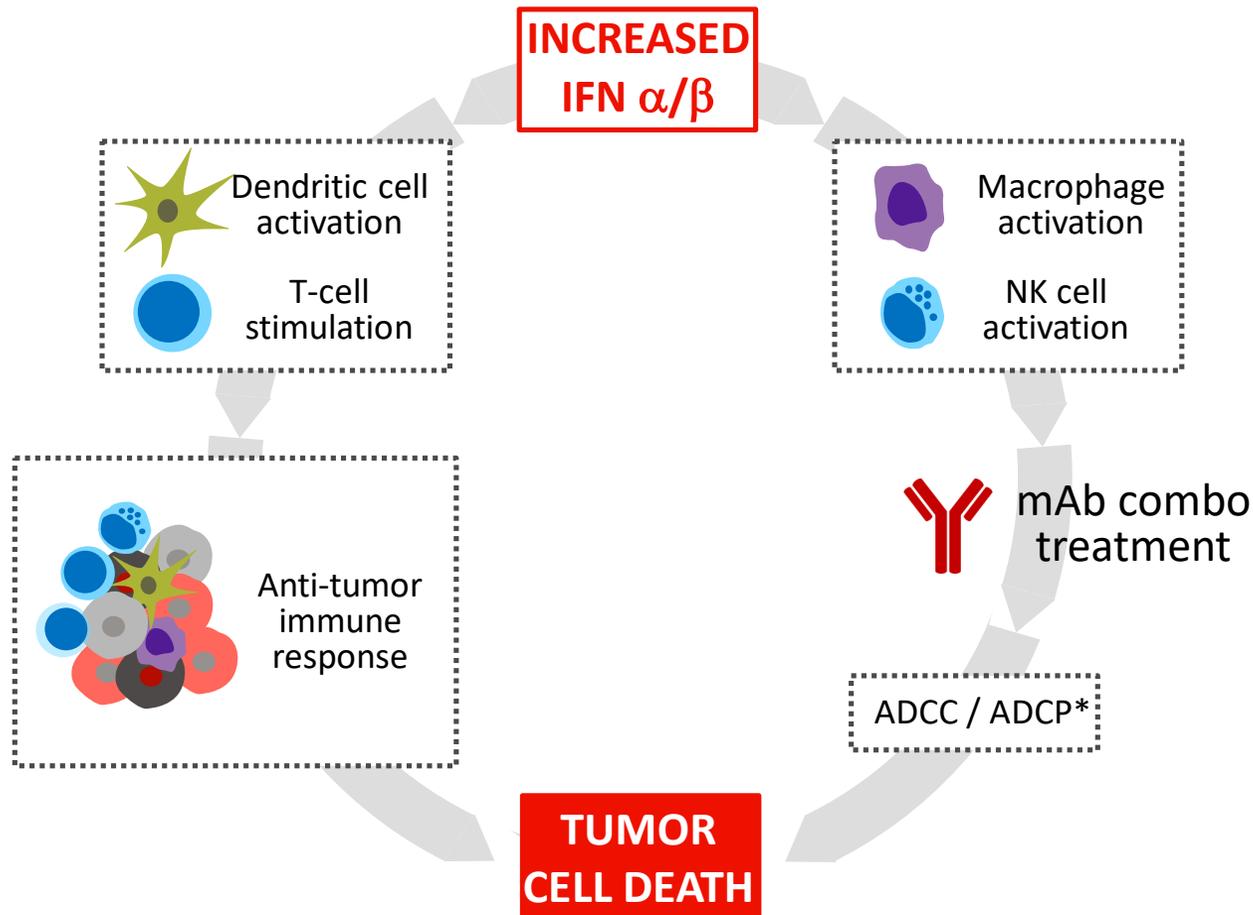
J.C. Cox Seagoville, TX

NBC News, Feb 5, 2020

TAK-981 is a unique, first-in-class inhibitor of SUMOylation, which enhances the immune response through the interferon pathway



REMOVES THE BRAKES ON IFN SIGNALING TO ENHANCE BOTH INNATE AND ADAPTIVE ANTI-TUMORAL IMMUNITY



- Responses seen in single-agent dose-escalation in solid tumors and in combination with rituximab in NHL
- Initial development in combination with anti-PD1 in solid tumors and R/R non-Hodgkin lymphoma

POTENTIAL ANTI-VIRAL EFFICACY IN COVID-19+ CANCER PATIENTS

FDA support to dose patients in ongoing oncology studies; concept to study amendment in ~1 month

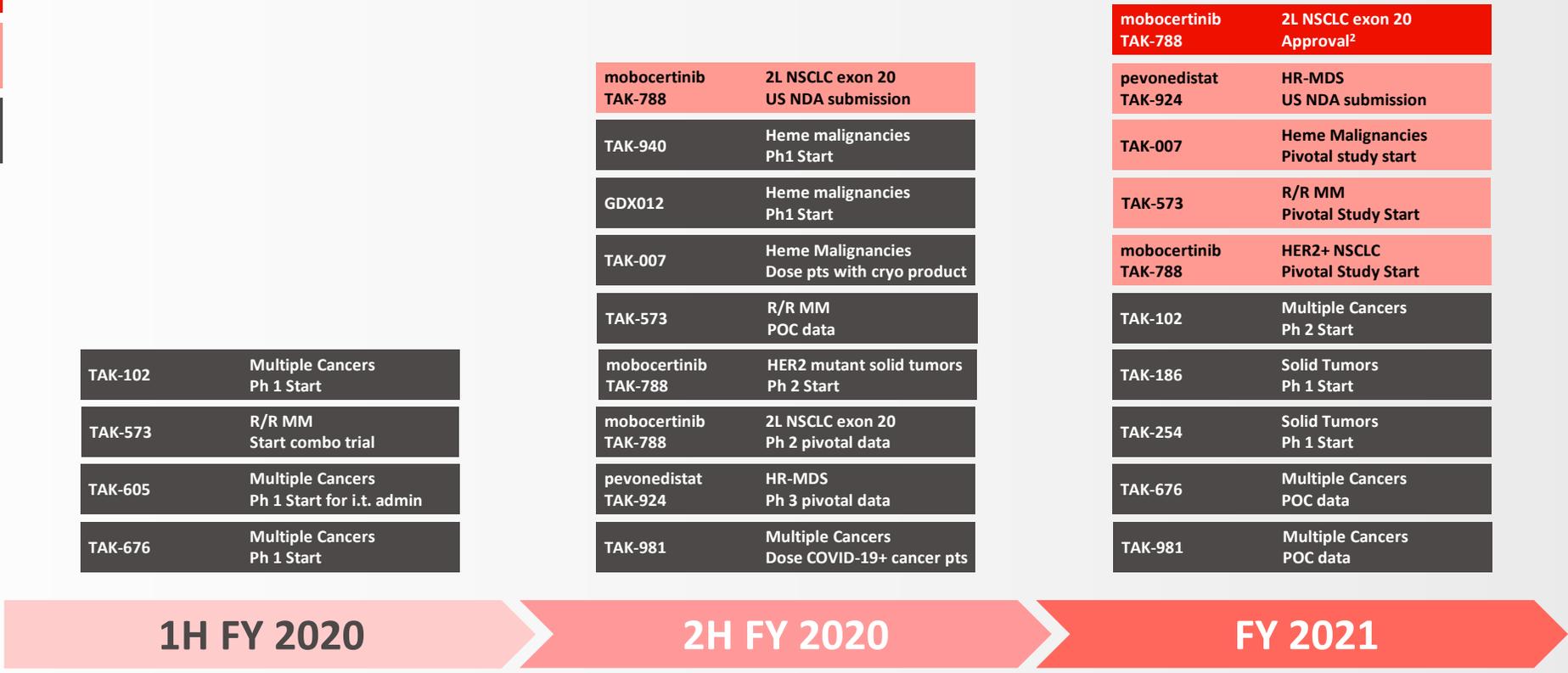
Next Inflection

1HFY20: Initiate COVID-19 treatment arm for patients with metastatic or relapsed / refractory hematologic malignancies

We are excited by the potential of our NME pipeline, looking ahead to other potential milestones¹ through FY21



- FIRST APPROVALS
- PIVOTAL STUDY STARTS AND FIRST SUBMISSIONS
- PH 1/2 STUDY STARTS AND DATA READOUTS

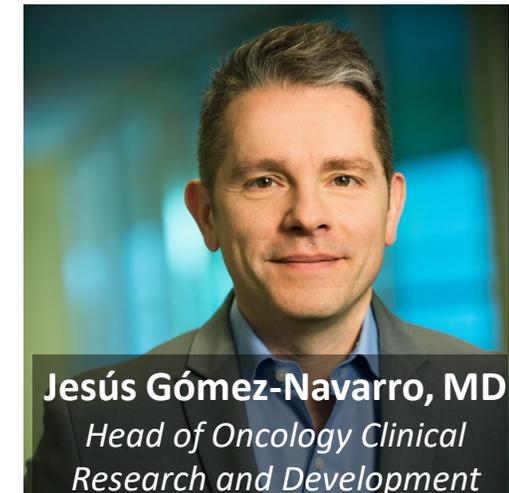
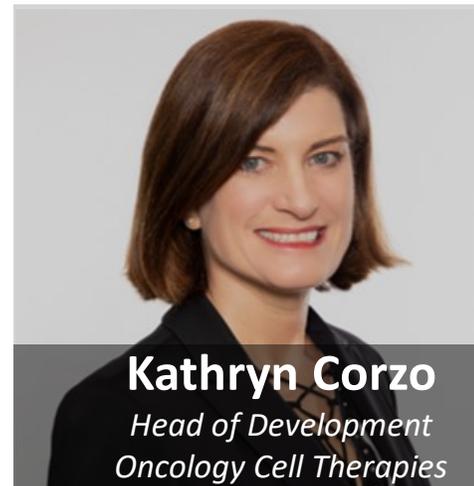
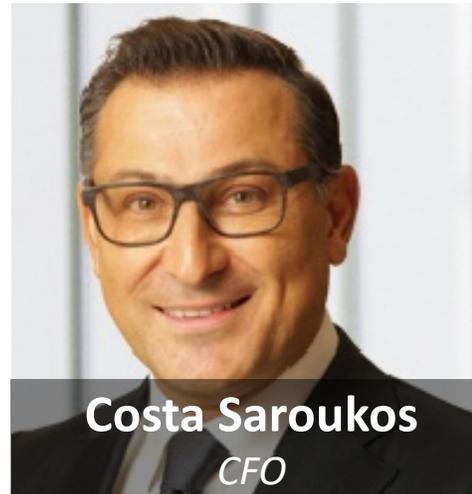


1. Potential key milestone dates as of May 13, 2020. The dates included herein are estimates based on current data and are subject to change

2. EU, China approval projected in 2022

Note: Takeda Fiscal Year begins on April 1 and ends on March 31 of each year

Questions & Answers



THANK YOU

