

Our Pipeline: Delivering Waves of Innovation for Patients

For more than 200 years, Takeda has focused on bringing better health and a brighter future to people around the world by translating science into life-changing medicines that make a critical difference to patients.



Takeda supports R&D efforts across three areas: Innovative Biopharma, Plasma-Derived Therapies (PDT) and Vaccines. The R&D engine for Innovative Biopharma, our largest R&D investment, has produced a diverse and dynamic pipeline in areas of high unmet medical need across our core therapeutic areas where we have deep expertise in Oncology, Rare Genetics & Hematology, Neuroscience and Gastroenterology.

Successive Waves of Innovation Contribute to Sustained Growth

Our pipeline is positioned to deliver both near-term and sustained growth to Takeda in two waves:



Wave 1: Near-Term Growth

Global brand expansions and 11 new molecular entities (NMEs) with potential for 15 launches through FY24.



Wave 2: Sustained Growth

~30 NMEs and next-generation platforms with transformative or curative potential that will support sustainable growth from FY25 and beyond.

Wave 1 of our pipeline includes 11 best-in-class / first-in-class NMEs with potential for 15 approvals through FY24.

FY21 is expected to be a growth year for our pipeline as we anticipate all of our Wave 1 programs will have a major milestone submission, approval or pivotal study. Our teams are working to bring seven programs into pivotal studies across 10 indications including TAK-994, a novel oral orexin agonist and lead candidate in our pioneering Orexin franchise.

In addition Takeda is supporting global access to three different COVID-19 vaccines. We are partnering with Novavax to develop, manufacture and commercialize 250 million doses of their COVID-19 vaccine in Japan. We also plan to import and distribute 50 million doses of Moderna's mRNA COVID-19 vaccine working with Moderna and Japan's Ministry of Health Labour and Welfare (MHLW). Takeda has released capacity at our contract manufacturer IDT Biologika to manufacture the Johnson & Johnson COVID-19 vaccine for three months.

Wave 2 of our pipeline supports our sustainable growth from FY25 and includes approximately 30 programs with transformative or curative potential. TAK-999 for alpha-1 antitrypsin (AAT) deficiency liver disease and TAK-981 for multiple cancers are on the cusp of Wave 1, with the potential to accelerate.¹

PIPELINE QUICK FACTS

4

areas of therapeutic focus and **2** targeted investments

15

potential approvals through FY24 40+ new molecular entities (NMEs) in the pipeline

5,000

R&D experts powering breakthroughs

BENEFITS OF OUR STRATEGIC APPROACH

- Targets with great therapeutic value and nimble, less costly development programs
- Faster tracks to registration
- Enhanced patent protection and marketing rights
- Partner programs to de-risk investments by Takeda
- Approximately 1/2 of pipeline with orphan drug designation



(-1) Wave 1: Delivering Near-Term Growth Through FY24

global brands delivering for patients today 20 pivotal studies underway or in development 20

additional launches for the global brands through FY24 15+ transformative medicines potentially delivered to patients in China by FY25²

Global Growth Brand Expansions

Our 14 global growth brands continue to generate significant opportunities through new indications and geographic expansion. For our 14 global brands, we are targeting the following extensions through FY24:

FY20	FY21	FY22	FY23	FY24	
ALUNBRIG 1L NSCLC; US, EU, JP 2L NSCLC; JP	ALUNBRIG 1L NSCLC; CN 2L NSCLC; CN	TAKHZYRO HAE; JP HAE Peds: EU, US	NINLARO NDMM nSCT; US, EU, CN NDMM SCT; US, EU	TAKHZYRO BMA; US	
ALUNBRIG c UC/CD; EU H2H alectinib; EU c UC; JP Post-2Gen; US, EU		ENTYVIO sc UC; US sc CD; US, JP	ENTYVIO GvHD; EU	NINLARO NDMM nSCT; CN NDMM SCT; CN	
TAKHZYRO NINLARO HAE; CN NDMM nSCT; JP		ALUNBRIG H2H alectinib; US ALK+ NSCLC; CN	ALOFISEL CPF; US	ENTYVIO sc UC/CD; CN	
VPRIV Gaucher disease; CN	ALOFISEL CPF; JP	ADYNOVATE HemA; CN	HYQVIA CIDP; EU, US	ALOFISEL CPF; CN	
HYQVIA SID; EU	GATTEX SBS; JP	GATTEX SBS Peds; JP	NATPARA HTP; JP		

First-in-Class & Best-in-Class NMEs with Near-Term Milestones

The main driver for new product launches in the near term are our 11 NMEs, which represent several potential best-inclass / first-in-class therapies, and two regional COVID-19 vaccines.





Wave 2: Driving Innovation and Supporting Sustained Growth (FY25 & Beyond)

Our Wave 2 Pipeline contains approximately 30 NMEs, each with the potential to become curative, life-saving treatments in the next decade. Momentum of our Wave 2 pipeline is the result of our investment in foundational capabilities in cell and gene therapies and data sciences. These investments, combined with our unparalleled expertise, enable Takeda to leverage best practices from one modality to build robust capabilities in new areas.

TARGET APPROVAL¹ →	·	FY25/26		F	Y27 & BEYOND	
ONCOLOGY	TAK-981 Multiple cancers			TAK-252 Solid tumors	TAK-102 Multiple cancers	TAK-186 EGFR Solid Tumo
	TAK-573 R/R MM	TAK-605 Multiple cancers		TAK-676 Solid tumors	TAK-940 CD19+ hematologic malignancies	
RARE GENETICS & HEMATOLOGY	TAK-755 iTTP, SCD	mezagitamab (TAK-079) MG, ITP		TAK-607 Complications of prematurity		
	Orexin2R-ag Sleep Disorders			TAK-341 Parkinson's Disease	TAK-071 Parkinson's Disease	_
				TAK-041 Anhedonia in MDD	TAK-653 TRD	TAK-831 CIAS NS
SASTRO-	TAK-062 Celiac Disease	TAK-101 Celiac Disease		sibofimloc (TAK-018) Crohn's Disease (post-op and ileitis)	TAK-671 Acute Pancreatitis	TAK-039 Hepatic encephalopathy
ENTEROLOGY	TAK-999 AAT Deficiency Liver Disease	TAK-951 Nausea & vomiting	TAK-906 Gastroparesis	TAK-954 POGD		
VACCINES	TAK-426 Zika Vaccine			TAK-214 Norovirus Vaccine		

1. Certain Wave 2 programs may be accelerated into Wave 1 depending on future data read outs.

2. Of the >15 new medicines, 6 represent our global brands: Entyvio*, Alunbrig*, Ninlaro*, Vpriv*, Takhzyro*, Adynovate*.

3. Projected approval dates depend on data read-outs; some Wave 1 target approval dates assume accelerated approval.

4. Approval date assumes filing on Phase 2 data.

5. In active discussions with the FDA. Projected approval subject to outcome of discussions.

Takeda's Fiscal Year ends March 31 of the following year; e.g. "FY20" refers to the twelve month period ended March 31, 2021. All timelines are approximate estimates as of April 6, 2021 and are subject to change. For glossary of disease abbreviations, please refer to the following page.



Our rich history guides us, and the future energizes us. We are proud of our more than **200 years of the scientific innovation and R&D** that has helped us advance our goal to bring better health for people and a brighter future for the world.



Glossary of Abbreviations

1L	first line	H2H	head to head	nSCT	non stem cell transplant
2L	second line	HAE	hereditary angioedema	NS	negative symptoms
AAT	alpha-1 antitrypsin	HemA	hemophilia A	Orexin2R-ag	orexin 2 receptor agonist
AML	acute myeloid leukemia	НРТ	hypothyroidism	PDT	Plasma-Derived Therapies
ВМА	bradykinin mediated	HR-MDS	higher-risk myelodysplastic		(business unit)
	angioedema		syndromes	Peds	pediatric
CD	Crohn's disease	нѕст	hematopoietic stem cell	POC	proof of concept
CIAS	cognitive impairment associated		transplants	Post-2 gen	after 2nd generation
	with schizophrenia	IT	intrathecal		ALK inhibitor
CIDP	chronic inflammatory	ITP	idiopathic thrombocytopenic	Post-op	post-operative
	demyelinating		purpura	POGD	post-operative
	polyradiculoneuropathy	ITTP	immune thrombotic		gastrointestinal dysfunction
COVID-19	coronavirus disease 2019		thrombocytopenic purpura	R&D	research and development
СМУ	cytomegalovirus	JP	Japan	RNA	ribonucleic acid
CN	China	LGS	Lennox-Gastaut syndrome	R/R	relapse/refractory
CNS	central nervous system	MDD	major depressive disorder	SBS	short bowel syndrome
CPF	complex perianal fistula	MG	myasthenia gravis	sc	subcutaneous formulation
cTTP	congenital thrombotic	MLD	metachromatic leukodystrophy	SCD	sickle cell disease
	thrombocytopenic purpura	мм	multiple myeloma	sст	stem cell transplant
DS	Dravet syndrome	NDMM	newly diagnosed multiple	SID	secondary immunodeficiency
EGFR	epidermal growth factor		myeloma	т1	type 1
	receptor	NIAID	National Institute of Allergy	TRD	treatment resistant depression
EoE	eosinophilic esophagitis		and Infectious Diseases	UC	ulcerative colitis
EU	European Union	NIH	National Institute of Health	US	United States
FY	fiscal year	NME	new molecular entity	1 00	omica states
GvHD	graft-versus-host disease	NSCLC	non-small cell lung cancer		

Forward-Looking Statements

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