



Takeda R&D Strategy

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**Nikko Hotel, San Francisco
January 8, 2013**

Takeda Pharmaceutical Company Limited

Takeda R&D Value



Takeda is a pharmaceutical company committed to the discovery and development of innovative solutions addressing unmet medical needs of patients through R&D investment

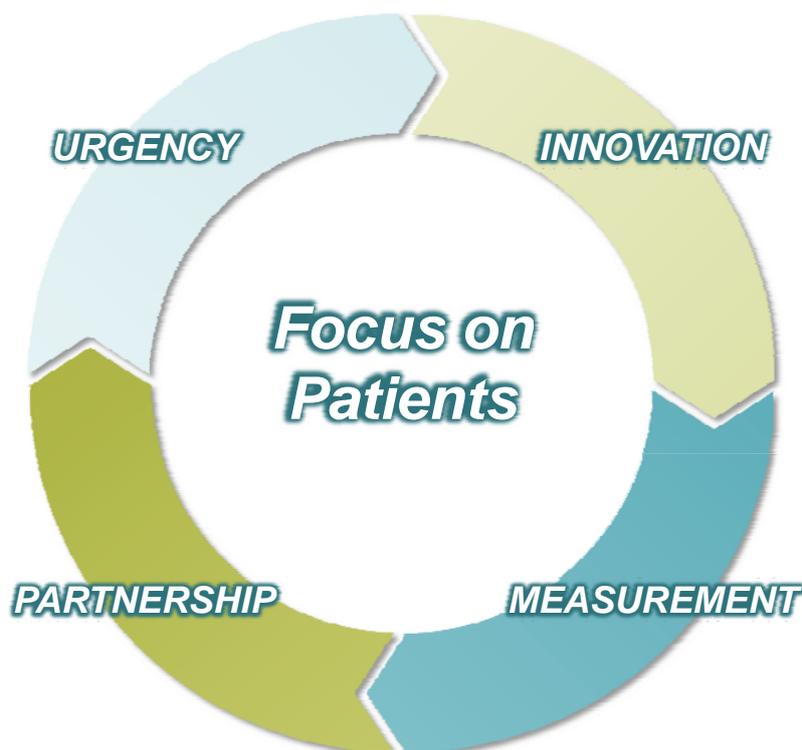
Takeda R&D Mission



Meet the future promise of Takeda as a leader in the pharmaceutical industry by providing solutions to patients with unmet medical needs

Transform the R&D organization to be an engine of growth that is an industry leader in R&D productivity

Takeda R&D Principles



URGENCY



INNOVATION

New Frontier Science

**Novel New
Molecular
Entity**

- TAK-875
- TAK-438
- MLN0002

- TAK-375SL
- AD-4833/TOMM40
- Lupron 6M Depot

**Novel
Life Cycle
Management**

**Drug Discovery Unit
CMC Center**

MEASUREMENT

POC&C
Concept

Value Creation

POC&C: Proof of Concept & Competitiveness

Why POC&C?

Valid surrogate of value - 50% success to market

More proximate measure of value creation

Focus measurement on peak year sales

Better tool to predict future corporate performance

Set targets for therapeutic area units

PARTNERSHIP

In-license

Discovery	Takeda California (formerly Syrrx)	Millennium	Nycomed	Affymax, Lundbeck, Orexigen, Novartis, Seattle Genetics, etc.
<ul style="list-style-type: none"> • Advinus • Envoy • LigoCyte • Intracellular Therapies 	<ul style="list-style-type: none"> • NESINA • SYR-472 	<ul style="list-style-type: none"> • MLN0002 • MLN9708 • MLN8237 • MLN0264 	<ul style="list-style-type: none"> • DAXAS • REVESTIVE • Veltuzumab • Namilumab • Alvesco • Omnaris 	<ul style="list-style-type: none"> • REVESTIVE • ADCETRIS • OMONTYS • RIENSO • CONTRAVE • LOTRIGA • BRINTELLIX* • Lurasidone • ATL-962 • AMG 386 • AMG 706 • TAK-816 • TAK-361S • ITI-214

*Proposed brand name of Lu AA21004

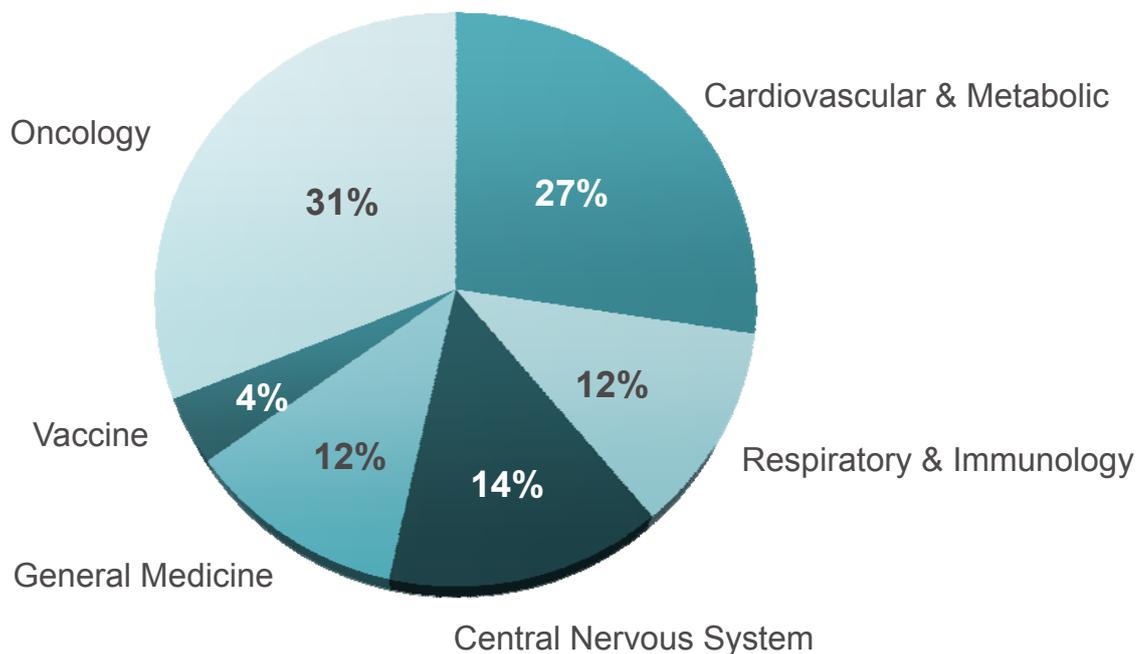
6 Therapeutic Areas

Pipeline Assets in Phase 2 or Beyond

<div style="background-color: #00838f; color: white; padding: 5px; margin-bottom: 5px;">Metabolic / CV</div> <ul style="list-style-type: none"> • BLOPRESS • EDARBI • AZILVA • NESINA • CONTRAVE • ATL-962 • TAK-875 • SYR-472 • TAK-428 	<div style="background-color: #00838f; color: white; padding: 5px; margin-bottom: 5px;">Oncology</div> <ul style="list-style-type: none"> • VELCADE • LUPRON • ADCETRIS • MLN9708 • MLN8237 • TAK-700 • AMG 706 • AMG 386 	<div style="background-color: #00838f; color: white; padding: 5px; margin-bottom: 5px;">CNS</div> <ul style="list-style-type: none"> • BRINTELLIX* • Lurasidone • TAK-375SL • SOVRIMA
<div style="background-color: #00838f; color: white; padding: 5px; margin-bottom: 5px;">Respiratory & Inflammatory</div> <ul style="list-style-type: none"> • DAXAS • Veltuzumab 	<div style="background-color: #00838f; color: white; padding: 5px; margin-bottom: 5px;">General Medicine</div> <ul style="list-style-type: none"> • TAKEPRON • DEXILANT • REVESTIVE • OMONTYS • RIENSO • AMITIZA • MLN0002 • TAK-438 • TAK-385 	<div style="background-color: #00838f; color: white; padding: 5px; margin-bottom: 5px;">Vaccine</div> <ul style="list-style-type: none"> • TAK-816 • TAK-361S • Norovirus vaccine

*Proposed brand name of Lu AA21004

R&D Budget in FY2012-2014 (average)



NESINA / SYR-322 (alogliptin)

First DPP-4 inhibitor with prospective CV outcome data



Cardiovascular & Metabolic

Respiratory & Inflammatory

Central Nervous System

General Medicine

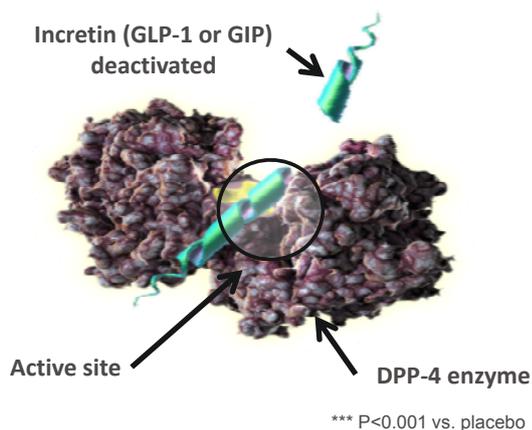
Vaccine

Oncology

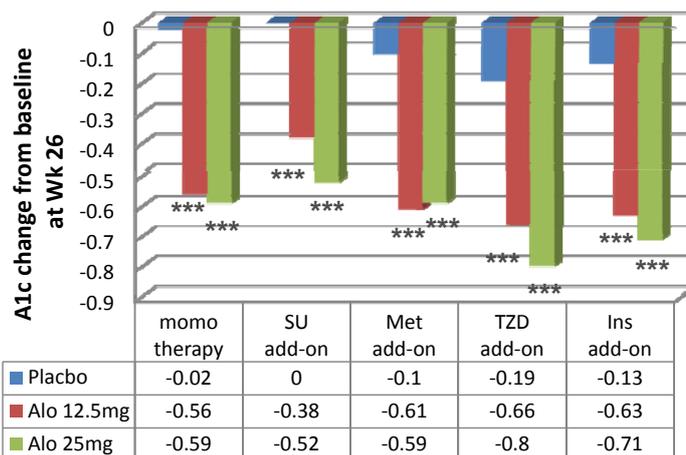
Program Status

- First DPP-4 inhibitor to have prospective CV outcome data in a high CV risk population (EXAMINE trial)
- Treatment as monotherapy and in fixed-dose combination with pioglitazone or metformin
- PDUFA dates of alogliptin and alogliptin/pioglitazone FDC in late January 2013

Mechanism of Action



Key Data – Phase 3



Contrave®

First obesity agent with prospective CV outcome data



Cardiovascular & Metabolic

Respiratory & Inflammatory

Central Nervous System

General Medicine

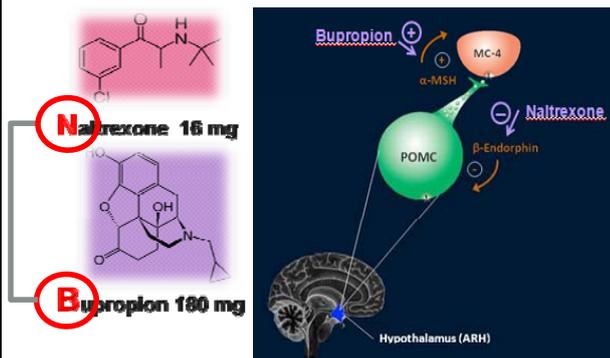
Vaccine

Oncology

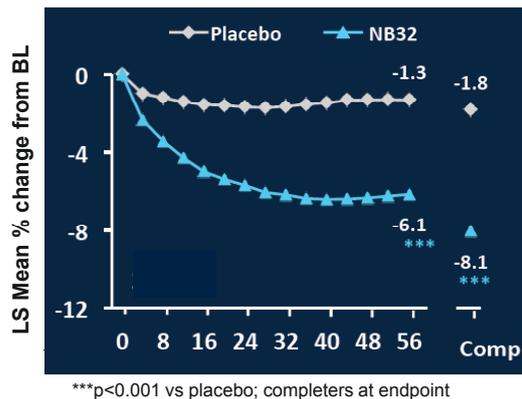
Program Status

- Fixed-dose, sustained-release combination of naltrexone-HCl and bupropion-HCl
- CV outcome "LIGHT STUDY" underway to meet FDA requirement. The first obesity agent to be supported by prospective cardiovascular outcome data
- Due to fast enrollment into LIGHT STUDY, accrual of events needed for interim analysis could occur as early as second quarter of calendar 2013.
- Partnership with Orexigen Therapeutics, Inc.

Mechanism of Action



Key Data – Phase 3



TAK-875

First-in-class GPR40 agonist for type 2 diabetes



Cardiovascular & Metabolic

Respiratory & Inflammatory

Central Nervous System

General Medicine

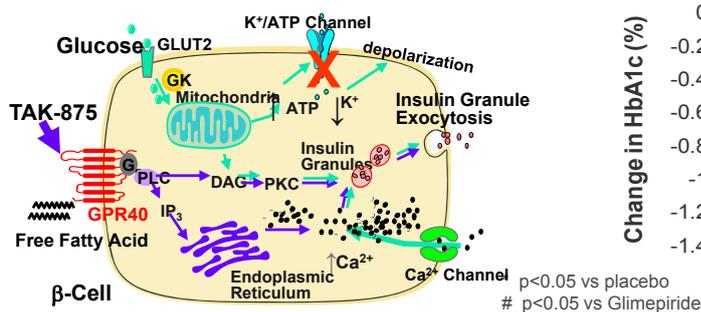
Vaccine

Oncology

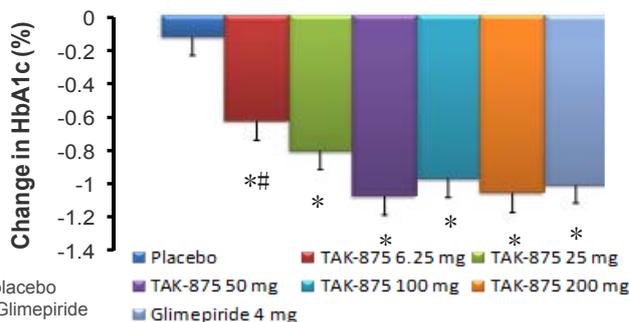
Program Status

- Once-daily insulin-secretagogue with clear differentiation from competitors:
- In Phase 2 trials, all doses had a markedly lower incidence of hypoglycemia compared to glimepiride (TAK-875 2.0%, glimepiride 16.1%)
- Phase 3 studies (including CV outcome study) ongoing in the US, EU & Japan
- Head to head and concomitant trials with DPP4 inhibitor ongoing
- Projected launch in FY2015

Mechanism of Action



Key Data – Phase 2



DAXAS[®] (roflumilast)

The first oral drug in new class of treatment for COPD



Cardiovascular & Metabolic

Respiratory & Inflammatory

Central Nervous System

General Medicine

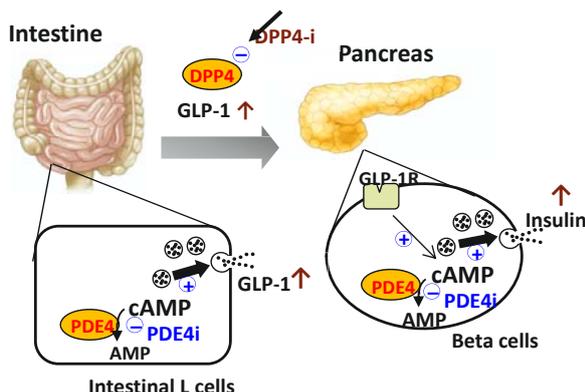
Vaccine

Oncology

Program Status

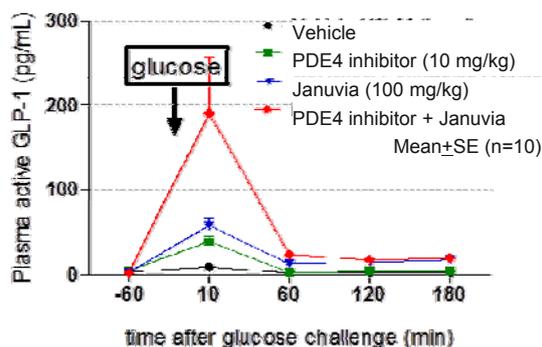
- Once daily oral selective phosphodiesterase 4 (PDE4) enzyme inhibitor for COPD
- Approved in the EU for maintenance treatment of severe COPD and currently filed or approved in several emerging markets. Out-licensed to Forest in the US.
- Clinical POM study ongoing for new combination with alogliptin for type 2 diabetes.

Mechanism of Action



Key Data - preclinical

Combination of PDE4 inhibitors and DPP4 inhibitors increases active plasma GLP-1 levels (db/db mice)



BRINTELLIX* / Lu AA21004 (vortioxetine)

Novel multimodal antidepressant for major depressive disorder



Cardiovascular & Metabolic

Respiratory & Inflammatory

Central Nervous System

General Medicine

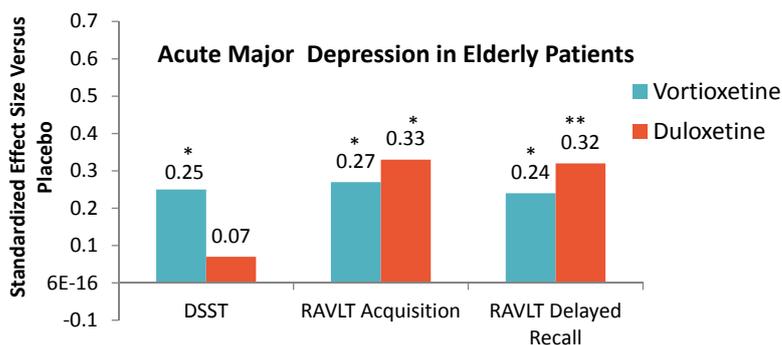
Vaccine

Oncology

Program Status

- The US NDA includes data from 6 global Phase 3 trials (including a study in elderly patients) that demonstrated significant efficacy in dose range of 5 to 20mg/day
- Potential for favorable short and long term safety and tolerability and improvement of cognitive dysfunction of depression
 - ✓ Lower incidence of treatment emergent sexual dysfunction
 - ✓ No impact on sleep and weight neutrality
 - ✓ Absence of discontinuation symptoms
- US NDA filed by Takeda in October 2012, & Japan NDA filing expected in mid-FY2013
- Partnership with H. Lundbeck A/S

Key Data – Phase 3



*p<0.05; **p<0.01 versus placebo.
DSST: Digit Symbol Substitution Test
RAVLT: Rey Auditory Verbal Learning Test

*Proposed brand name of Lu AA21004

Lurasidone

Atypical antipsychotic for schizophrenia & bipolar depression



Cardiovascular & Metabolic

Respiratory & Inflammatory

Central Nervous System

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Vaccine

Oncology

Program Status

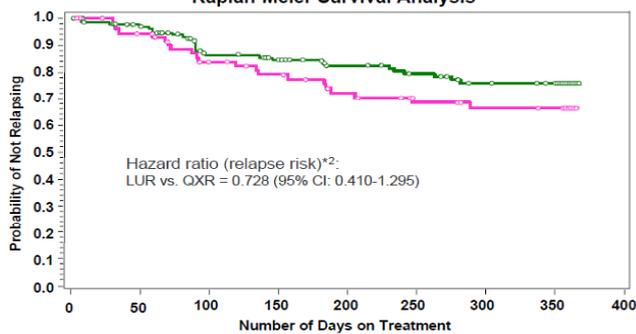
- Demonstrated robust schizophrenia maintenance efficacy in a 52 week study against Seroquel XR (QXR: atypical antipsychotic)
 - ✓ 27% improved reduction in relapse compared to Seroquel XR
 - ✓ 57% improved reduction in the risk of hospitalization compared to Seroquel XR
- Lack of significant effects on metabolic parameters including body weight
- Met primary and key secondary endpoints in two phase 3 trials in bipolar I depression
- EU MAA filed by Takeda in September 2012 for schizophrenia
- Partnership with Daiippon Sumitomo Pharma



Key Data - Phase 3

52 week double-blind extended study

Kaplan-Meier Survival Analysis¹



1 Treatment Group — LUR - LUR (n=139) — QXR - QXR (n=79)

¹ Kaplan-Meier Survival Curve up to 365 Days

² Derived from the Cox Proportional Hazards Model

MLN0002 (vedolizumab)

A precision-based strike on inflammatory bowel disease



Cardiovascular & Metabolic

Respiratory & Inflammatory

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Vaccine

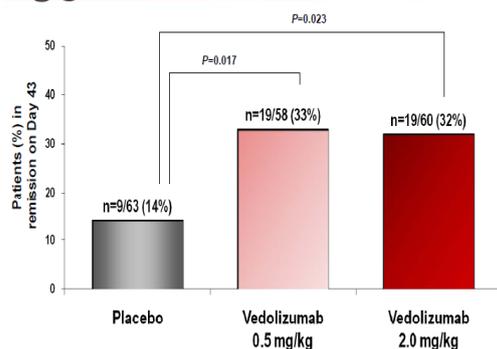
Oncology

Program Status

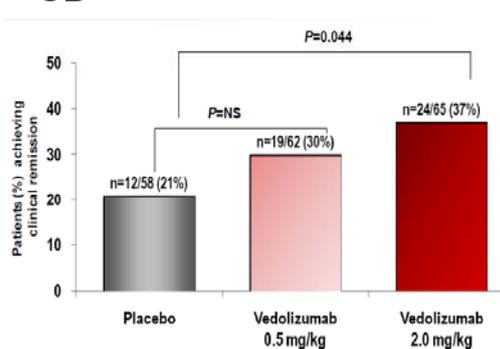
- A novel class of gut-selective monoclonal antibody targets $\alpha 4\beta 7$ integrin on leukocytes involved in ulcerative colitis (UC) and Crohn's disease (CD):
- Phase III UC study GEMINI I met primary endpoints of response (induction) and remission (maintenance)
- Phase III CD study GEMINI II met primary endpoints of remission (both induction and maintenance)
- MLN0002 has demonstrated efficacy in patients who are TNF naïve and those with prior anti-TNF failure in both UC and CD

Key Data – Phase 2

UC



CD



TAK-438 (vonoprazan)

Longer, faster, better acid suppression



Cardiovascular & Metabolic

Respiratory & Inflammatory

Central Nervous System

General Medicine

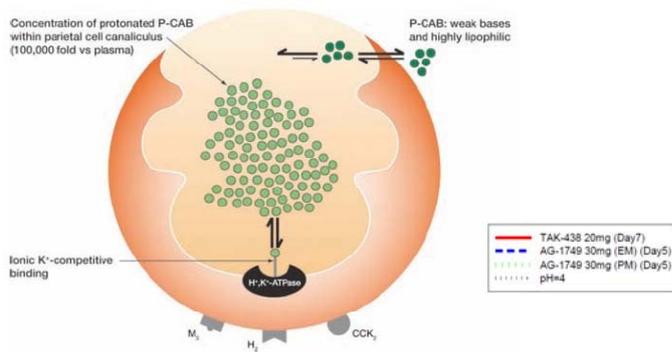
Vaccine

Oncology

Program Status

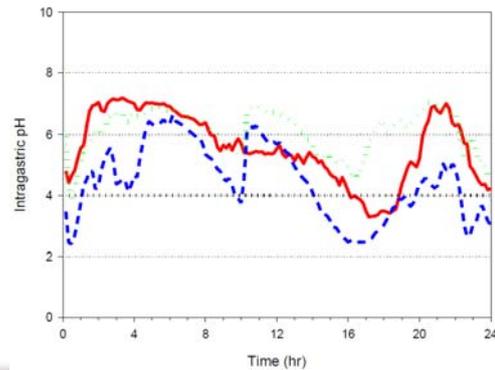
- First-in-class potassium competitive acid blocker (PCAB)
- More rapid onset of action as compared with a PPI (lansoprazole)
- High accumulation in parietal cells – potent/prolonged acid suppression
- No food effect, a limitation of PPIs
- No interaction with CYP2C19
- Phase III ongoing in Japan

Mechanism of Action



Key Data – Phase 1

Intragastric pH from MRD Study (comparison with lansoprazole)



Acquisition of LigoCyte

Gains First-in-Class Norovirus Vaccine Candidate & Virus-Like Particle Platform



Cardiovascular & Metabolic

Respiratory & Inflammatory

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Vaccine

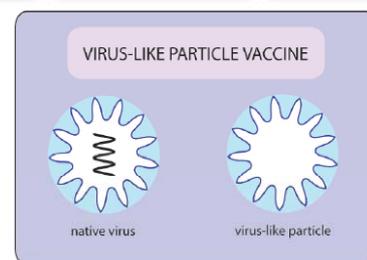
Oncology

LIGOCYTE[®]
PHARMACEUTICALS, INC.

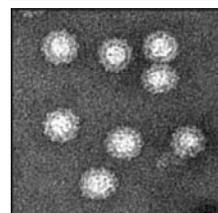
A major step forward in the expansion of Takeda's global Vaccine Business Unit

Enhances Takeda's R&D capacity with the acquisition of VLP* technology

Expands Takeda's development pipeline with first-in-class norovirus vaccine (P-I/II) and pre-clinical assets for RS virus, influenza and rotavirus



*Virus-Like Particles (VLPs) mimic the external protein structure of a virus without including the genetic material (DNA or RNA). The human immune system responds as if encountering a live virus, allowing it to build immune defenses



LigoCyte's norovirus VLP
Credit: LigoCyte Pharmaceuticals, Inc.

Oncology R&D Strategy



Cardiovascular & Metabolic

Respiratory & Inflammatory

Central Nervous System

General Medicine

Vaccine

Oncology

Continue building a sustainable pipeline to transform outcomes for patients

RESEARCH

Focus on discovering first-in-class molecules or best-in-class combinations

Small molecules approach

- Attack cellular infrastructure networks critical to cancer cell growth, survival irrespective of oncogenic driver / mutation patterns
- Areas of focus
 - Protein quality control
 - Cancer metabolism
 - Signal transduction

Biotherapeutics approach

- Induce cancer cell death through targeted delivery of potent toxin payloads to cancer cell selective surface proteins
- Areas of focus: antibody drug conjugates

DEVELOPMENT

Focus on optimizing patient benefit and product potential

Patient benefit

- Novel combination exploration
- Patient enrichment / selection
- Companion diagnostics

Product potential

- Biomarkers to aid decision making
- Quick to POC&C
- Differentiation strategies
- Global development

Translational medicine will help us optimize R&D investment



Cardiovascular & Metabolic

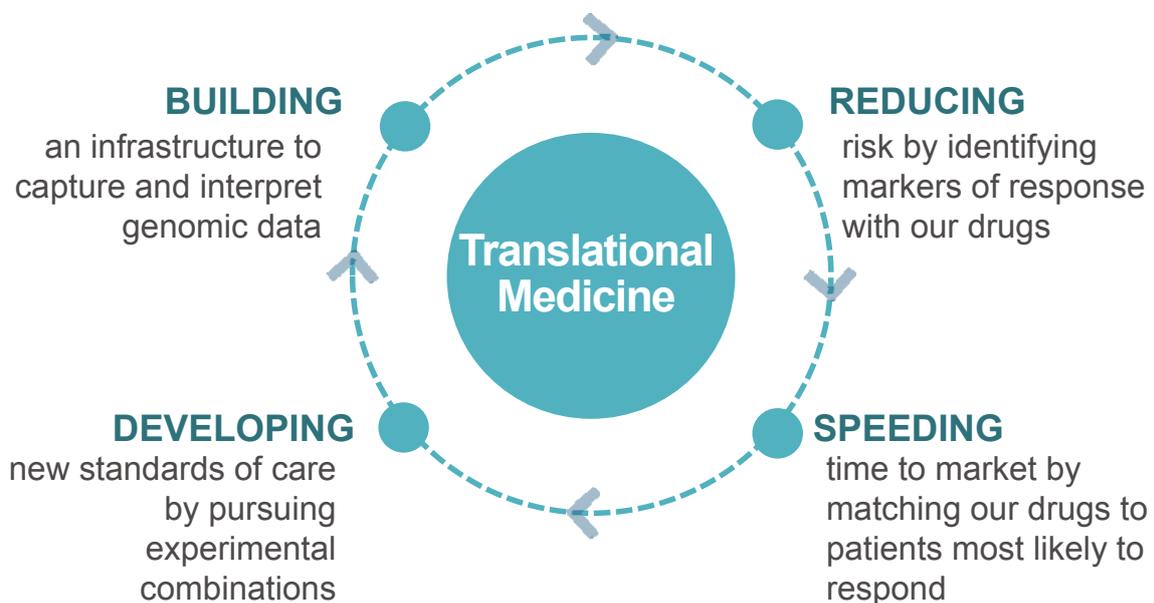
Respiratory & Inflammatory

Central Nervous System

General Medicine

Vaccine

Oncology



Innovation Drives Approach



Cardiovascular & Metabolic

Respiratory & Inflammatory

Central Nervous System

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To achieve our aspirations we must evolve our processes

- Implementation of companion diagnostics (ex. ADCETRIS/ Ventana)
- Push regulatory agencies for novel endpoints (ex. MLN9708 in AL)
- Patient selection based on understood biomarkers (ex. VELCADE DLBCL)

The Leader in Proteasome Inhibition



May 2003:

VELCADE approved for patients with MM who have received at least 2 prior therapies and have demonstrated progression on the last therapy (SUMMIT trial)

December 2006:

VELCADE approved for patients with MCL who have received at least 1 prior therapy

June 2008:

VELCADE approved in front line MM in combination with MP (VISTA trial)

January 2010:

VISTA 3-year overall survival (OS) advantage added to label

November 2011:

VISTA 5-year OS advantage added to label

June 2012:

Phase 3 study for MLN9708 in R/R MM begins

PROTEASOME INHIBITION

March 2005:

VELCADE approved for patients with MM who have received at least 1 prior therapy (APEX trial)

Sept 2007:

Trial for patients in front line MM (VISTA trial) stopped early; patients allowed to cross over to VELCADE

November 2009:

MLN9708, first oral proteasome inhibitor enters clinical trials

January 2012:

Approval for subcutaneous administration of VELCADE

October 2012:

Phase 3 study for MLN9708 in R/R amyloidosis begins

2015:

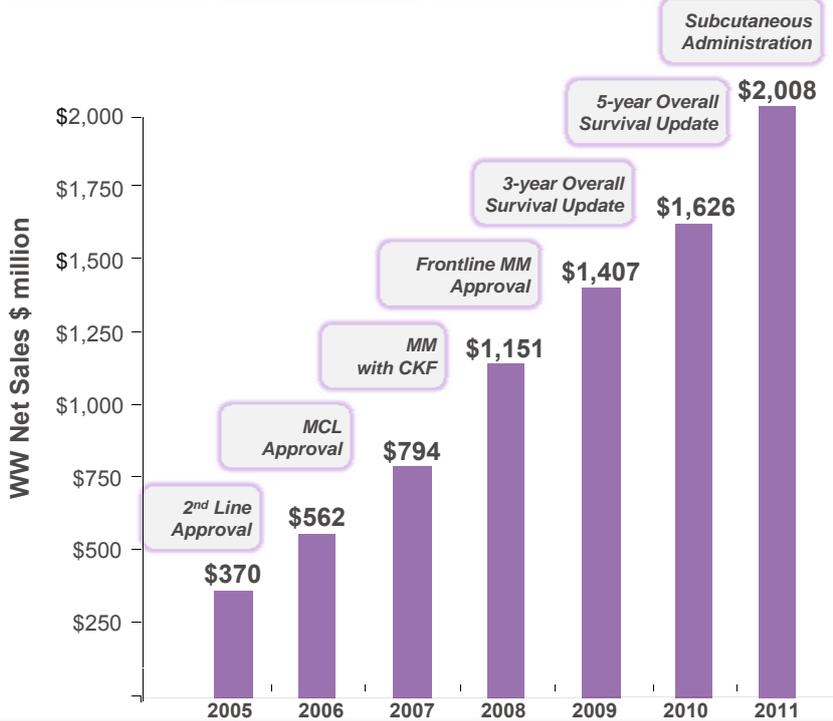
Launch of MLN9708

VELCADE

Robust clinical development program delivers LCM



- Cardiovascular & Metabolic
- Respiratory & Inflammatory
- Central Nervous System
- General Medicine
- Vaccine
- Oncology



- Five-year overall survival benefit and subcutaneous administration added to label in FY2011
- Phase III trial in front-line mantle cell lymphoma ongoing

VELCADE

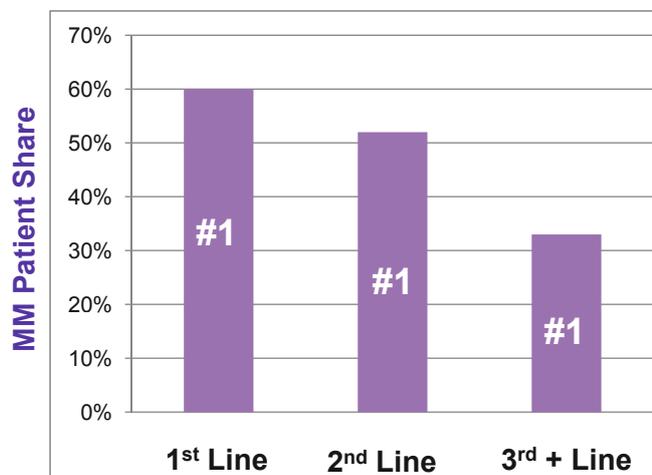
Leading Therapy Across All Lines of MM Treatment



- Cardiovascular & Metabolic
- Respiratory & Inflammatory
- Central Nervous System
- General Medicine
- Vaccine
- Oncology

Key Data

- **+27%** U.S. Growth (FY12 YoY)
- VELCADE leadership built on practice-changing clinical experience:
 - 6 pivotal clinical studies*
 - 9+ years of clinical experience
 - Nearly 400,000 patients treated
- VELCADE is the only agent to deliver a sustained overall survival advantage in MM
- VELCADE is the only therapy approved in relapsed mantle cell lymphoma (MCL after 1 prior therapy)



Source: MPI market Research
 *SUMMIT, APEX, VISTA, MMY3021, PINNACLE, VELCADE+DOXIL

VELCADE

Subcutaneous administration in all indications



Cardiovascular & Metabolic

Respiratory & Inflammatory

Central Nervous System

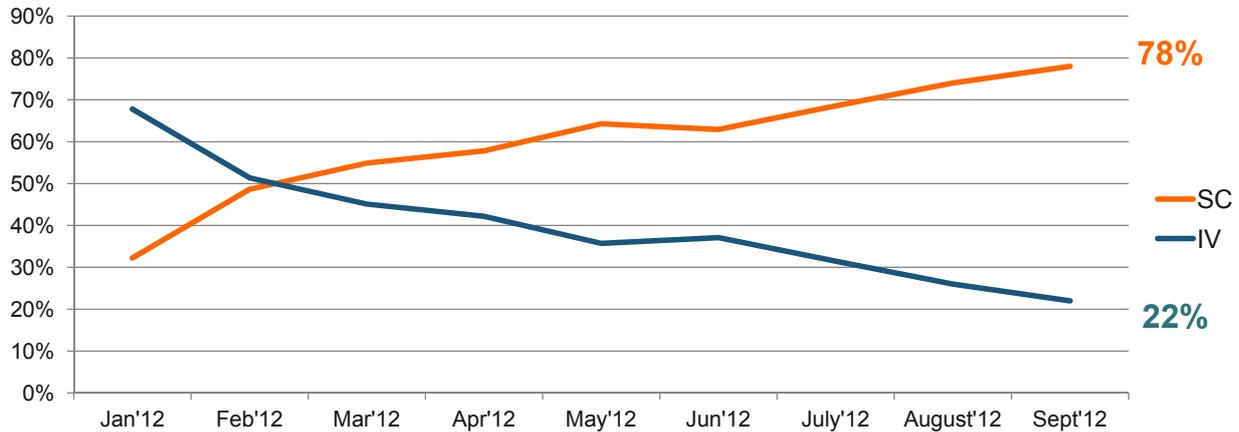
General Medicine

Vaccine

Oncology

Key Data

- **SC VELCADE** demonstrated efficacy consistent with IV for the primary endpoint, with a difference in incidence of PN (Grade 3/4: **6%** with **SC** vs. **16%** with **IV**)
- **66%** of physicians using **SC VELCADE** in all **VELCADE** patients
- **78%** of VELCADE patients are receiving **SC VELCADE**



Source: MPI market Research

MLN9708 (ixazomib citrate)

Innovation Drives our Continued Leadership in Proteasome Inhibition



Cardiovascular & Metabolic

Respiratory & Inflammatory

Central Nervous System

General Medicine

Vaccine

Oncology

Program Status

- Designing the Optimal Proteasome Inhibitor
 - ✓ Efficacious
 - ✓ Tolerable
 - ✓ Combinable
 - ✓ **Convenient**
- MLN9708: aspiration to develop the optimal proteasome inhibitor
 - ✓ First oral proteasome inhibitor in randomized phase 3 trials
 - ✓ Developing the all-oral regimen in both R/R MM and front line MM
 - ✓ Single oral weekly dose
 - ✓ 10 on-going clinical trials including two Phase III trials (RR MM and RR AL) and registration supportive trials
 - ✓ 5 more trials in start-up including Ph 3 ND MM (+Rd)
- Potential to be a market-transforming best-in-class product
- Global rights
- Front-line MM data at ASH show



MLN9708 (ixazomib citrate)

Innovation Drives our Continued Leadership in Proteasome Inhibition



Cardiovascular & Metabolic

Respiratory & Inflammatory

Central Nervous System

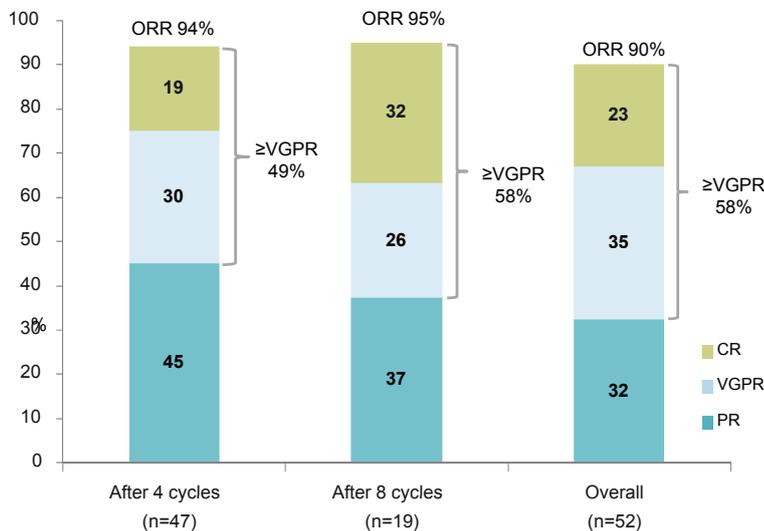
General Medicine

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Oncology

Key Data – Phase 2

Phase 2 data presented at ASH 2012:
Preliminary responses with MLN9708, lenalidomide and dexamethasone



- Of 3 response-evaluable patients who have completed 12 cycles, 2 achieved CR and 1 VGPR
- Minimal Residual Disease samples collected from patients achieving CR (N=9)
MRD-evaluable samples 8/9 (89%)
MRD-negative samples 7/8 (88%)
(κ:λ light chain ratio 0.3–3)

ADCETRIS (brentuximab vedotin)

Building the foundation of care for CD30+ malignancies



Cardiovascular & Metabolic

Respiratory & Inflammatory

Central Nervous System

General Medicine

Vaccine

Oncology

Mechanism of Action

- First-in-class CD30-directed antibody-drug conjugate for relapsed/refractory HL and sALCL
- Unique, highly effective targeted therapy with clear patient selection opportunities.
- Commercially, ADCETRIS is a “game-changer.” Physicians have been deeply unsatisfied with existing therapy options.
- ADCETRIS binds to CD30 and is internalized, resulting in MMAE release.
- MMAE disrupts the microtubulin network, inducing cell cycle arrest and apoptosis.

Program Status

- Partnered with Seattle Genetics
- EMA approved MAA submission in October 2012, activities underway for ROW submissions
 - ✓ FDA approved BLA submission from Seattle Genetics in August 2011
- Lifecycle Activities
 - ✓ AETHERA Phase 3 study fully enrolled
 - ✓ 3 Phase 3's underway: FL CD30+ MTCL; CD30+ CTCL; FL HL
 - ✓ Enrollment completed ahead of schedule in the Ph1/2 r/r HL and sALCL study in Japan
- Diagnostic development underway for CD30+ MTCL and CD30+ CTCL



ADCETRIS (brentuximab vedotin)

First-in-class CD30 antibody-drug conjugate



Cardiovascular & Metabolic

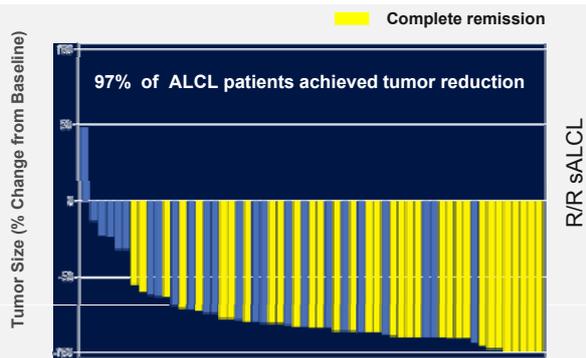
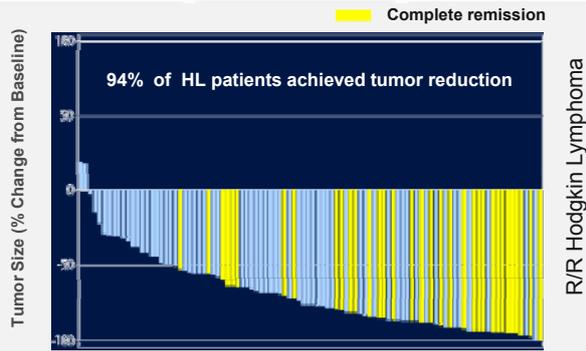
Respiratory & Inflammatory

Central Nervous System

General Medicine

Vaccine

Oncology



Key Data – Phase 2

- Data from pivotal Phase 2 studies in relapsed/refractory Hodgkin lymphoma (HL) and relapsed/refractory systemic anaplastic large cell lymphoma (sALCL) show high overall response rates and complete response rates.

	ORR	CR
R/R HL*	76%	35%
R/R sALCL†	86%	57%

* Relapsed/Refractory Hodgkin Lymphoma

† Systemic anaplastic large cell lymphoma

ADCETRIS (brentuximab vedotin)

First-in-class CD30 antibody-drug conjugate



Cardiovascular & Metabolic

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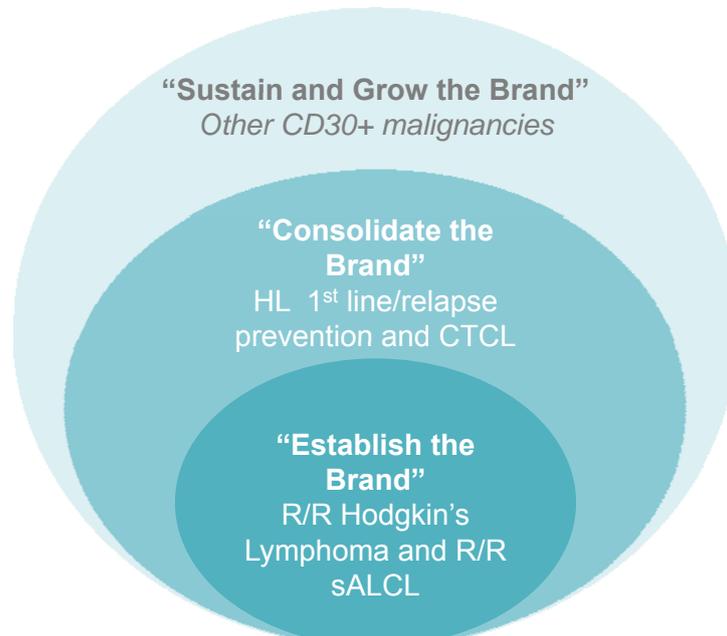
Vaccine

Oncology

Long Term Vision: The Foundation of Care For Patients With CD30+ Disease

Investigation of other lymphomas

- Front-line Hodgkin lymphoma
- Post-ASCT relapse prevention in high-risk HL (AETHERA)
- Front-line Mature T-cell lymphoma



Market Potential

TAK-700 (orteronel)

Continuing to build our prostate cancer leadership



Cardiovascular & Metabolic

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Vaccine

Oncology

Mechanism of Action

- Selective, non-steroidal, small-molecule inhibitor of 17,20-lyase¹, a key enzyme in the androgen synthesis pathway²
- Orteronel inhibits 17,20-lyase activity and steroid production in the human NCI-H295R adrenocortical carcinoma cell line³



Program Status

- Updated Phase 2 data reported at ASCO 2012
- Two Phase 3 trials in metastatic castration-resistant prostate cancer (mCRPC) began in 2010⁴
 - ✓ C21004: global Phase 3 in chemotherapy naïve mCRPC patients, co-primary endpoints of PFS and OS. Enrollment completed in June 2012
 - ✓ C21005: global Phase 3 in docetaxel relapsed mCRPC patients, primary endpoint of OS. Enrollment completed in November 2012
- Following PMDA discussions, bridging study to enable Japan participation in global Phase 3 trials initiated in September 2012
- Initiated RTOG steroid-free dosing study (July 2012)
- Successful FDA and EMA interactions regarding non-metastatic CRPC plan
- ROW submission strategy in development

1. Yamaoka M, et al. AACR 2010 (oral presentation)
2. Mostaghel EA, et al. Best Pract Res Clin Endocrinol Metab 2008;22:243-58
3. Yamaoka M, et al. EORTC-NCI-AACR 2010 (Abstract #163)
4. ClinicalTrials.gov. Available at: www.clinicaltrials.gov

TAK-700 (orteronel)

Selective, non-steroid dependent 17,20 lyase inhibitor



Cardiovascular & Metabolic

Respiratory & Inflammatory

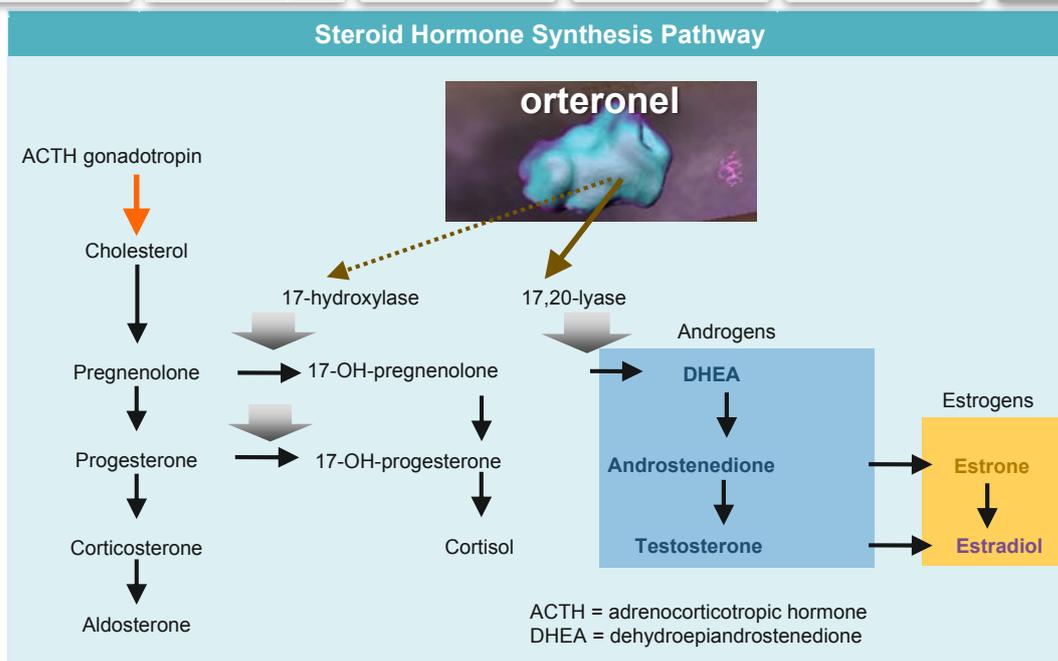
Central Nervous System

General Medicine

Vaccine

Oncology

Steroid Hormone Synthesis Pathway



1. Kaku T, et al. Bioorg Med Chem 2011;19:6383-6399
2. Yamaoka M, et al. J Steroid Biochem Mol Biol. 2012 Jan 12;129(3-5):115-128
3. Dreicer R, et al. ASCO-GU 2010, San Francisco, CA, USA (Abstract 1030)

1. Yamaoka M, et al. AACR 2010 (oral presentation)
2. Mostaghel EA, et al. Best Pract Res Clin Endocrinol Metab 2008;22:243-58
3. Yamaoka M, et al. EORTC-NCI-AACR 2010 (Abstract #163)
4. Agus DB, et al. ASCO 2011 (Abstract #4531)

MLN8237 (alisertib)

First-in-class oral Aurora A inhibitor with potential in solid tumor and hematological malignancies



Cardiovascular & Metabolic

Respiratory & Inflammatory

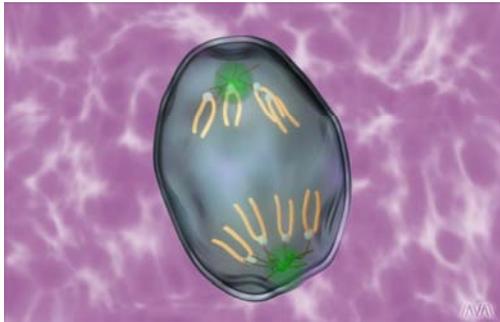
Central Nervous System

General Medicine

Vaccine

Oncology

Mechanism of Action



- Aurora A inhibition results in mitotic defects and/or delay in mitotic progression
 - ✓ High incidence of abnormal mitotic spindles often with unseparated centrosomes
 - ✓ Chromosome alignment defects in metaphase, lagging chromosomes in anaphase and chromatin bridges in telophase

Program Status

- Global Phase 3 program initiated in relapsed/refractory PTCL
- Single-agent clinical activity observed in aggressive lymphomas (ORR=32%)
 - ✓ Phase 1/2 combination with rituximab + vincristine ongoing in relapsed/refractory DLBCL and TFL (Transformed Follicular Lymphoma)
- Early single-agent clinical activity observed in solid tumor malignancies (n=5)
 - ✓ Randomized Phase 2 combination w/weekly paclitaxel in ovarian cancer ongoing: 38% ORR (RECIST and/or Ca¹²⁵) in Phase I escalation

AMG706 (motesanib) for Japan

Oral, small molecule inhibitor with potential in Asian non-small cell lung cancer patients



Cardiovascular & Metabolic

Respiratory & Inflammatory

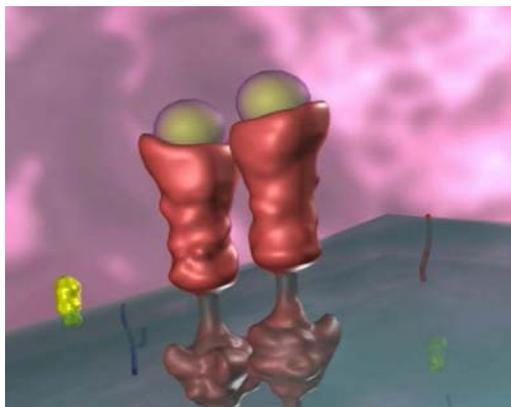
Central Nervous System

General Medicine

Vaccine

Oncology

Mechanism of Action



- Oral, small molecule inhibitor of VEG-F, PDGFR and C-Kit

Program Status

- >2700 patients have been enrolled in ~20 clinical trials since 1993
- MONET-1 Phase 3 trial in NSCLC failed to meet primary endpoint of improving overall survival leaving no path forward in U.S. and E.U.
- Sub-group analysis identified possible path forward in Japan and Asia
 - ✓ Received feedback from PMDA that overall survival endpoint is "recommended" to support filing in NSCLC setting
- Efficacy and safety in other indications (e.g. BC, CRC) was not confirmed.
- MONET-A (Asia) Phase 3 trial to confirm Asian sub-population efficacy in 1st line non-squamous NSCLC
 - ✓ FPI July 12, 2012
- AMG706 In-Licensing
 - ✓ Revised agreement with Amgen executed on June 29, 2012

Top 10 Companies by Pipeline Size 2012



Position 2012 (2011)	Company	No. of R&D products 2012 (2011)	No. of originated products
1 (2)	GlaxoSmithKline	257 (269)	147
2 (1)	Pfizer	225 (284)	152
3 (3)	Merck & Co	223 (236)	150
4 (4)	Novartis	218 (200)	151
5 (5)	Hoffmann-La Roche	198 (183)	147
6 (6)	Sanofi	178 (182)	91
7 (12)	Takeda	149 (103)	80
8 (9)	Bristol-Myers Squibb	146 (149)	113
9 (8)	AstraZeneca	144 (167)	85
10 (7)	Johnson & Johnson	142 (171)	85

Citeline: Pharma R&D Annual Review 2012

Top 10 Companies by Ph-3 Ratio in total Clinical Pipeline (Nov 2012)



	Company	% of Ph-3
1	Takeda	31%
2	Merck & Co	28%
3	Bayer	28%
4	Boehringer Ingelheim	22%
5	Novartis	20%
6	Sanofi	20%
7	Eli Lilly	19%
8	Glaxo SmithKline	19%
9	Johnson & Johnson	15%
10	Bristol-Meyers Squibb	15%
Industrial average		19.9%

EvaluatePharma® (as of November 2012)

Ensuring Steady Pipeline Approval



	FY12	FY13	FY14	FY15-FY16
JP	<p>Lotriga (TAK-085)</p>	<p>ATL-962</p>	<p>SYR-472</p> <p>TAK-536/CCB²</p> <p>SGN-35</p> <p>Lu AA21004</p> <p>TAK-438</p>	<p>TAK-875</p> <p>MLN0002</p> <p>MLN9708</p> <p>TAK-385</p> <p>TAK-700</p> <p>TAK-816</p>
US	<p>SYR-322</p> <p>SYR-322/MET³</p> <p>SYR-322/PIO⁴</p>	<p>Lu AA21004</p>	<p>TAK-700</p> <p>MLN0002</p>	<p>TAK-875</p> <p>MLN9708</p> <p>MLN8237</p>
EU	<p>ADCETRIS (SGN-35)</p> <p>Revestive (teduglutide)</p> <p>Rienso (ferumoxytol)</p>	<p>SYR-322</p> <p>SYR-322/MET³</p> <p>SYR-322/PIO⁴</p> <p>Lurasidone</p> <p>Peginesatide</p> <p>TAK-390MR</p>	<p>TAK-491/CLD⁵</p> <p>MLN0002</p>	<p>TAK-875</p> <p>MLN9708</p> <p>TAK-700</p>
EM¹	<p>In emerging markets, compounds including SYR-322, TAK-491, SGN-35, MEPACT, TAK-375, TAK-390MR, DAXAS will be launched consecutively.</p>			<p>In-house</p> <p>In-license</p>
	<p>Already-approved drugs in red</p> <p>¹ Emerging Market, ² Calcium Channel Blocker, ³ Metformin, ⁴ Pioglitazone (ACTOS), ⁵ Chlorthalidone</p> <p>Note: Some in-licensed pipelines (including Amgen products) are not publicly disclosed based upon the disclosure policies of the originator companies.</p>			

Takeda R&D Value



Takeda is a pharmaceutical company committed to the discovery and development of innovative solutions addressing unmet medical needs of patients through R&D investment



Forward-Looking Statements

This presentation contains forward-looking statements regarding the Company's plans, outlook, strategies, and results for the future.

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