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ANTENGENE 2022 R&D DAY

TREATING PATIENTS BEYOND BORDERS

NOVEMBER 2022

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**A GLOBAL, MULTI-PRODUCT BIOPHARMA MAKING
TRANSFORMATIVE IMPACT IN HEMATOLOGY/ONCOLOGY**

Leading Commercial-stage R&D-driven Global Biopharmaceutical Company Focused on the Discovery, Development, Manufacturing and Commercialization of Innovative First-in-class / Best-in-class Therapeutics for the Treatment of Hematologic Malignancies and Solid Tumors



Our Vision

Developing innovative cancer medicines to treat patients beyond borders worldwide.



Our Mission

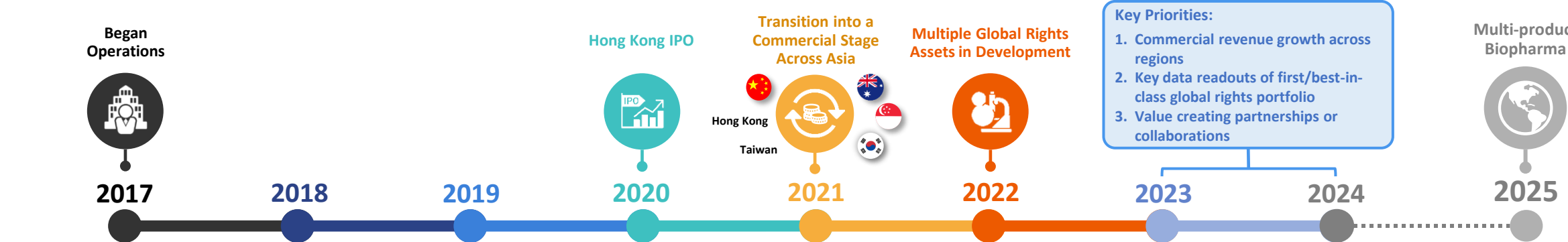
Building fully-integrated capabilities in discovery, clinical development, manufacturing and commercialization to foster the rapid clinical adoption of innovative medicines from around the world for the benefit of broad patient populations.

- **15** Innovative Drug Candidates
- **10** Assets with Global Rights
- **3** In-house R&D Centers
- **2** Manufacturing Sites
- **1** Product – XPOVIO® Approved in 5 Markets

Antengene is Executing on Our Strategy to Bring Transformative Medicines to Patients Around the World



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APAC Rights Portfolio – Enablers for Antengene with Key Milestones Achieved

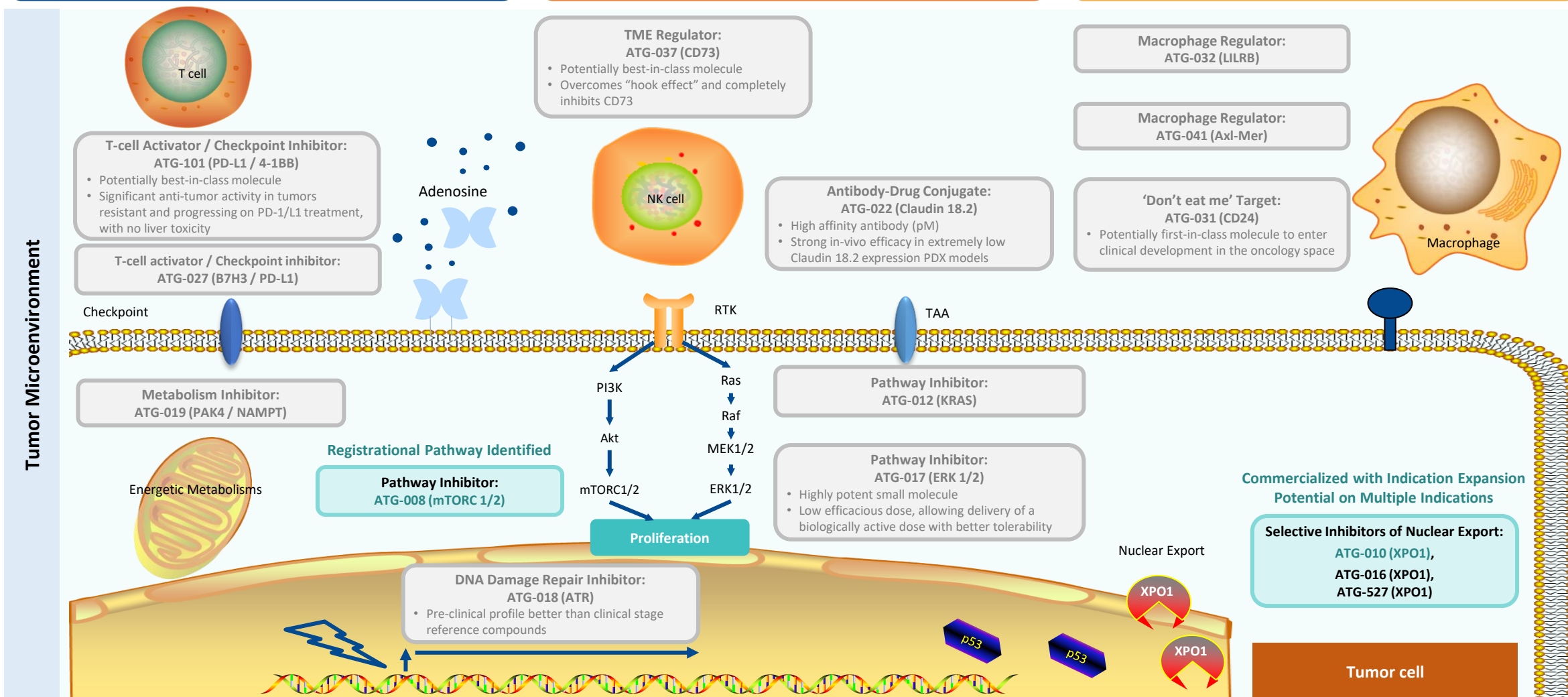


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Multiple Targets

Synergistic Mechanism of Actions

Multiple Modalities



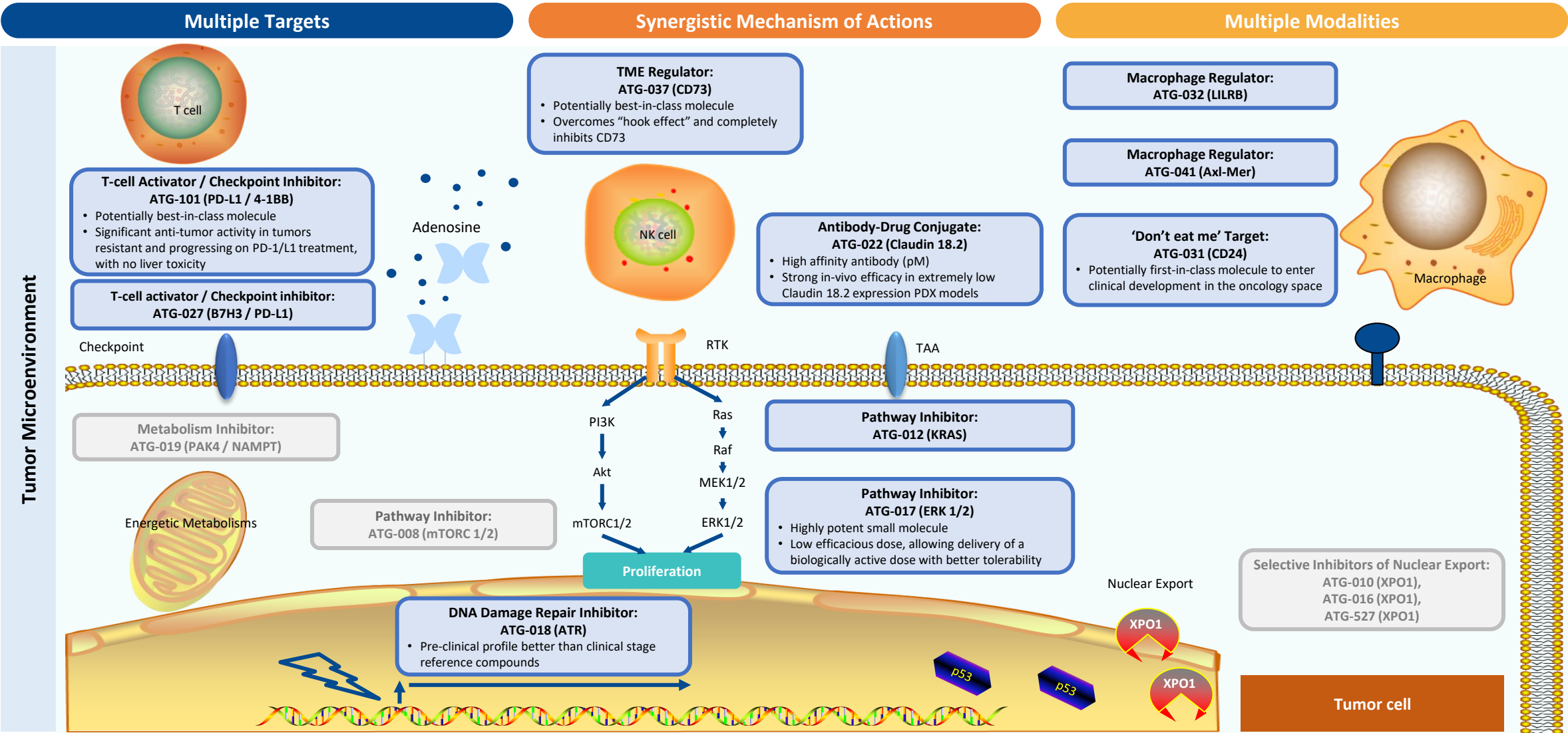
Assets with Global rights

Assets with APAC rights

Global Rights Portfolio with Globally First/Best-in-class Potential



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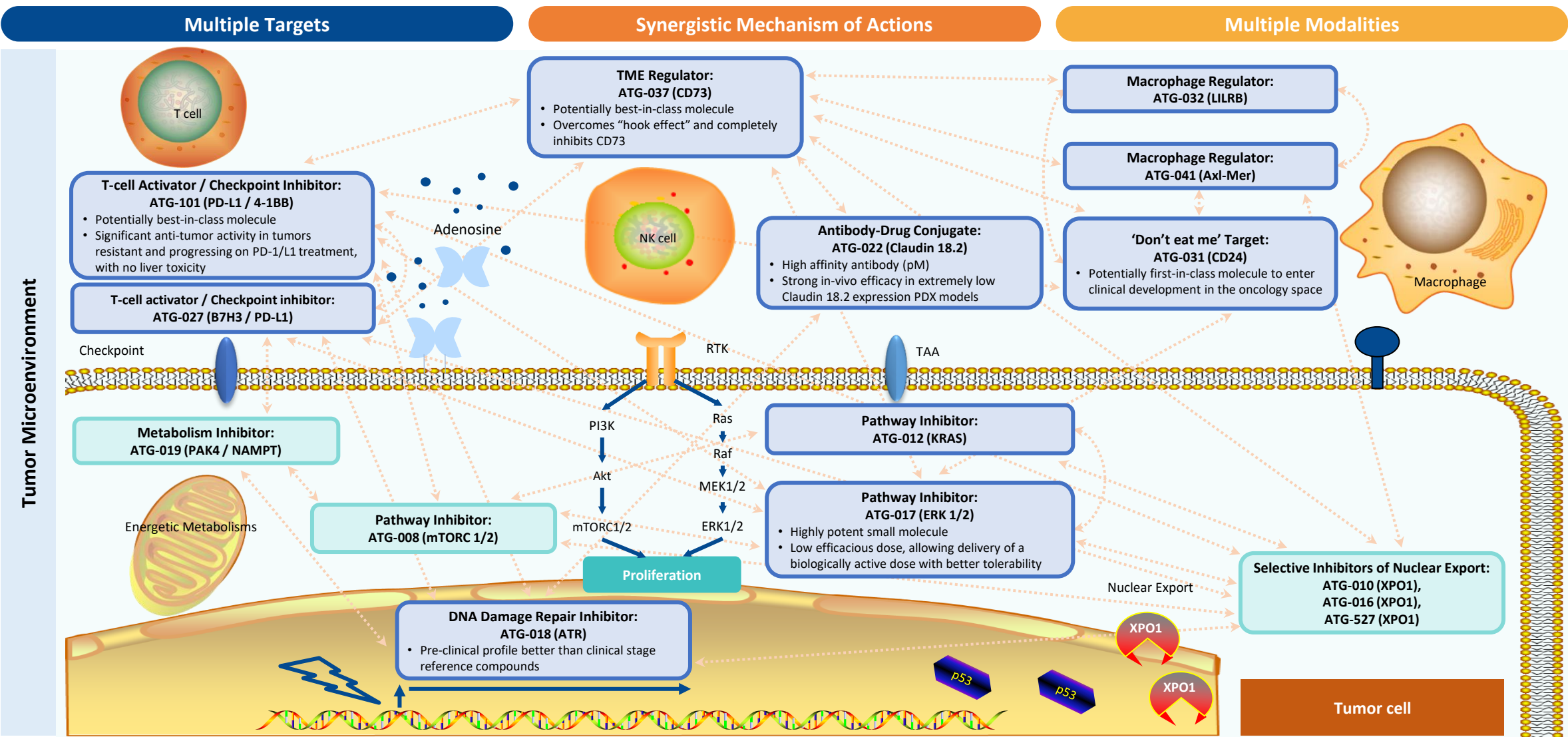
Assets with Global rights

Assets with APAC rights

Combined Portfolio – Unique Portfolio with Synergistic Mechanisms of Action



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Key Highlights for Today – Portfolio with APAC Rights

Data Readouts

ATG-008 (Onatasertib)

- Phase I/II “TORCH-2” Study – In Combination with Toripalimab in Advanced Solid Tumors
 - Encouraging efficacy observed in relapsed/metastatic cervical cancer patients, demonstrating an **ORR of 52.4% (11/21)** regardless of PD-L1 status
 - ORR for PD-L1 positive patients was **77.8% (7/9)**
 - Identified potential **registrational path** for ATG-008
- Phase II “TORCH” Study – Monotherapy in 2L+ HBV+ Hepatocellular Carcinoma (HCC)
 - Demonstrated **single agent activity** in HCC patients, including in patients with prior checkpoint inhibitor treatment (ORR of 16.7%)

Clinical Trial Updates

ATG-010 (Selinexor)

- Phase I/II “TOUCH” Study – Data to be presented at ASH 2022
- Pivotal Phase III “BENCH” Study
- Pivotal Phase II “SEARCH” Study
- Global Pivotal Phase II/III “XPORT-DLBCL-030” Study
- Phase Ib “MATCH” Study
- Phase I/II “SWATCH” Study
- Global Pivotal Phase II “XPORT-MF-035” Study

Commercialization Updates

ATG-010 (Selinexor)

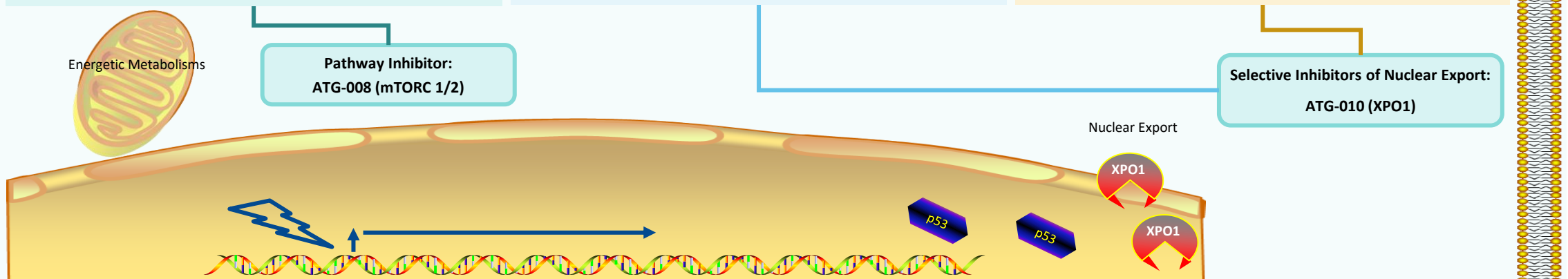
- Continued execution of XPOVIO®’s defined strategy in China and APAC region
- Launch updates with regulatory approvals across 5 core markets
- Future untapped opportunities
- Initial observations from China/APAC launch
- 2023 core priorities

Energetic Metabolisms

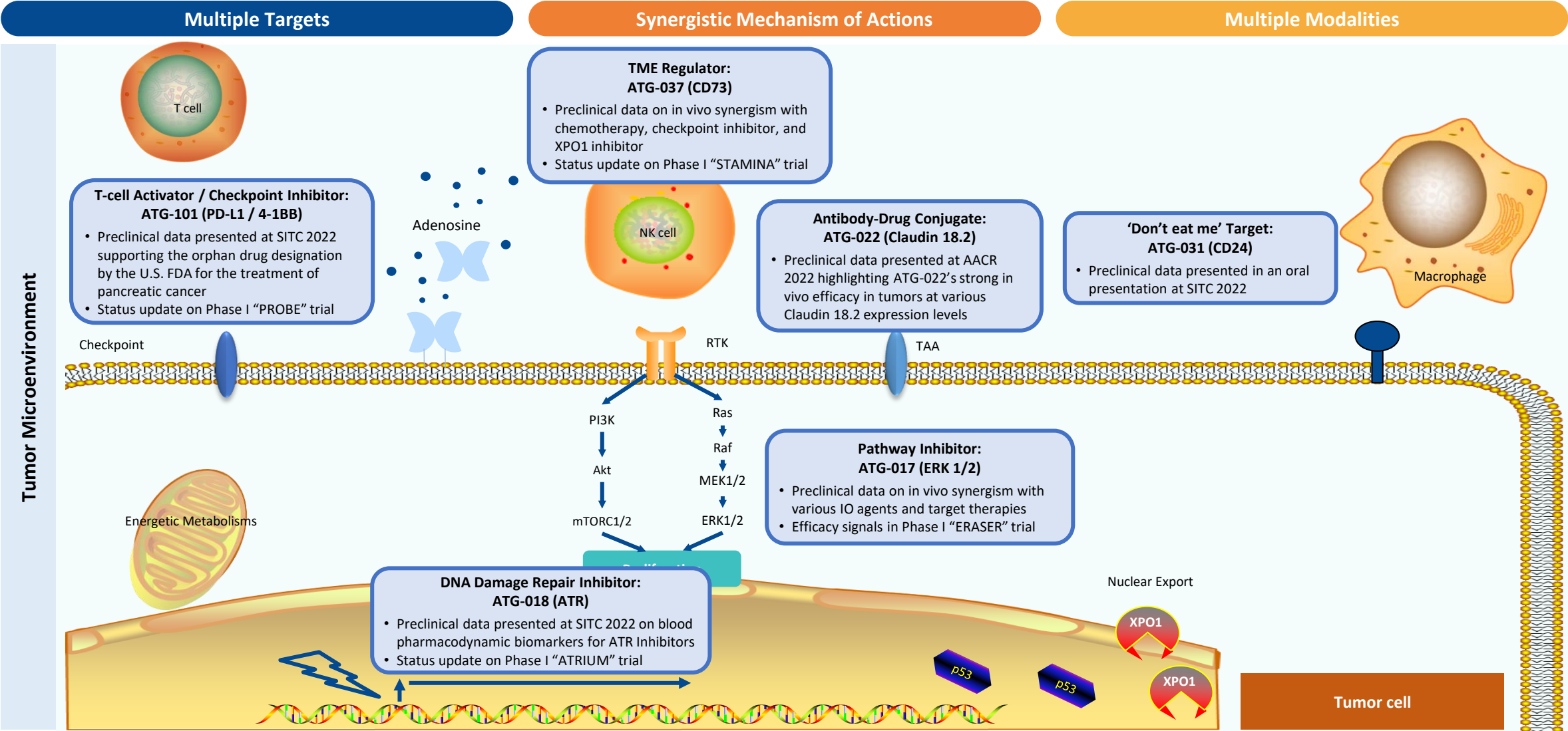
Pathway Inhibitor:
ATG-008 (mTORC 1/2)

Selective Inhibitors of Nuclear Export:
ATG-010 (XPO1)

Nuclear Export



Key Highlights for Today – Portfolio with Global Rights





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R&D PHILOSOPHY, DIRECTION AND PROGRAM HIGHLIGHTS

Cancer Remains a Huge Challenge Globally



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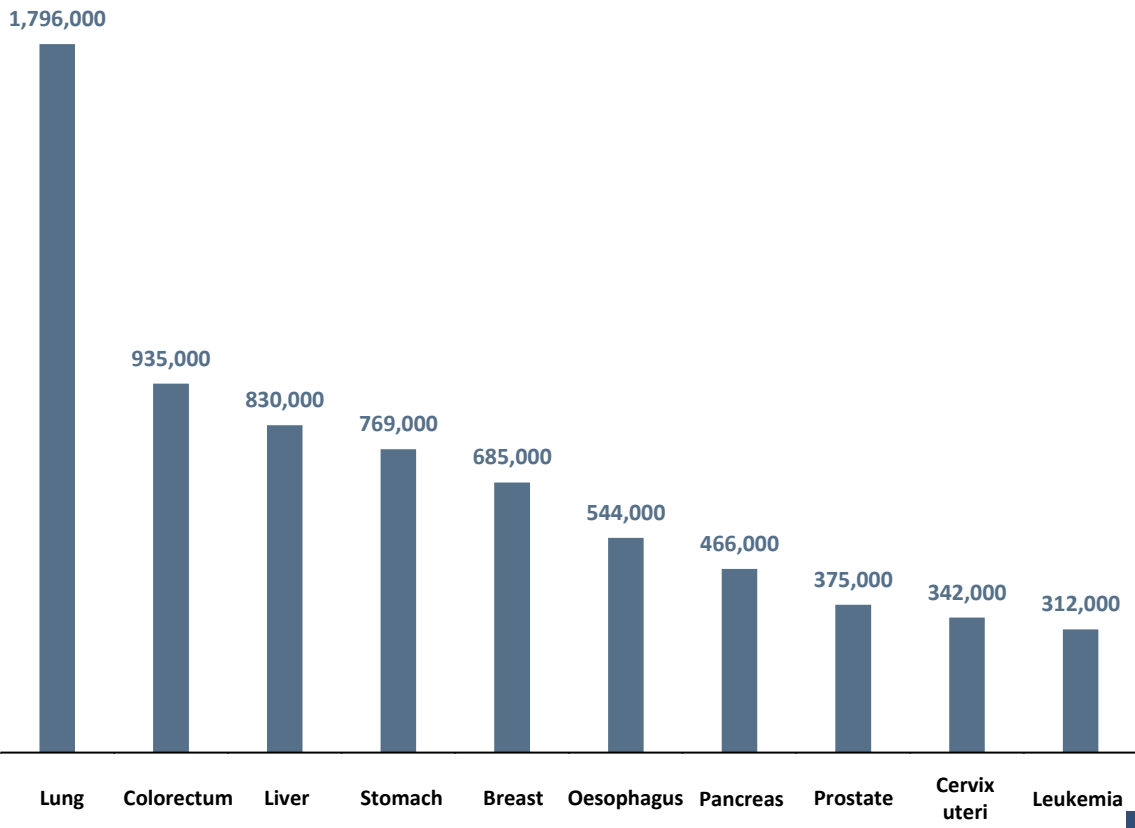
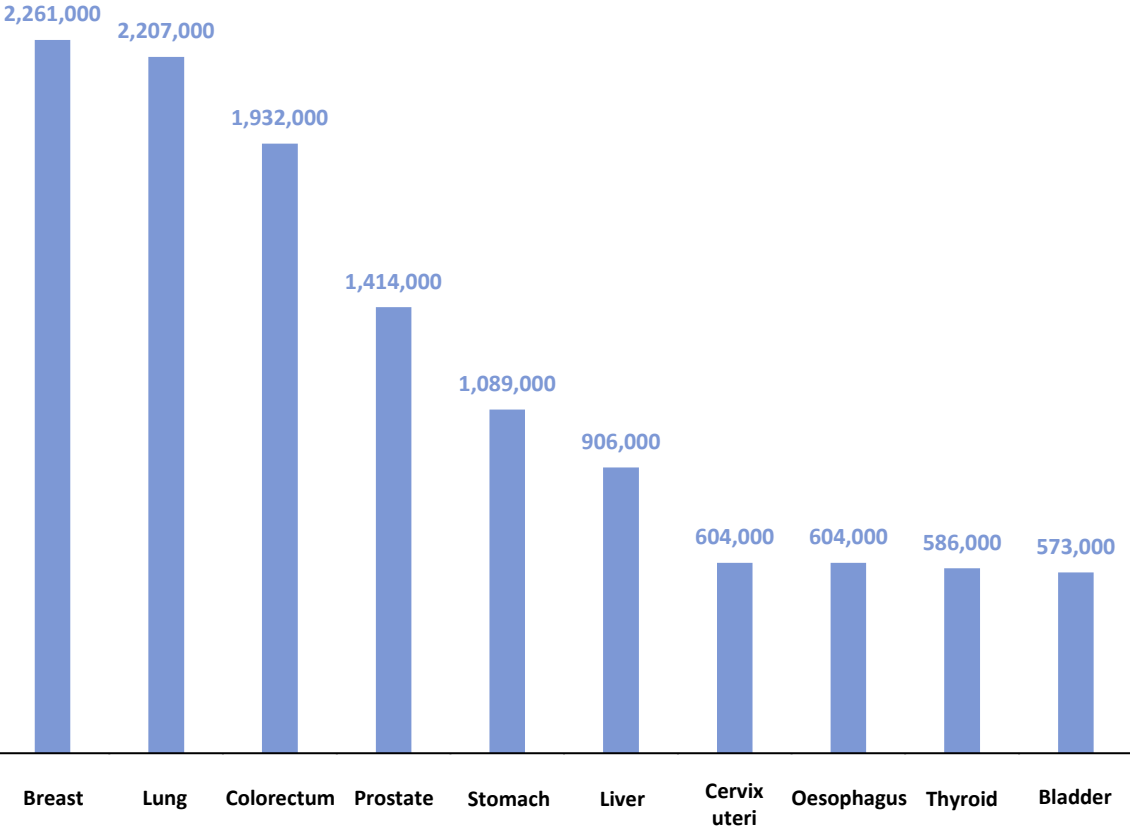
19+ Million
New Cancer Cases Each Year

50+ Million
People Living with Cancer Worldwide

10+ Million
Cancer-related Deaths

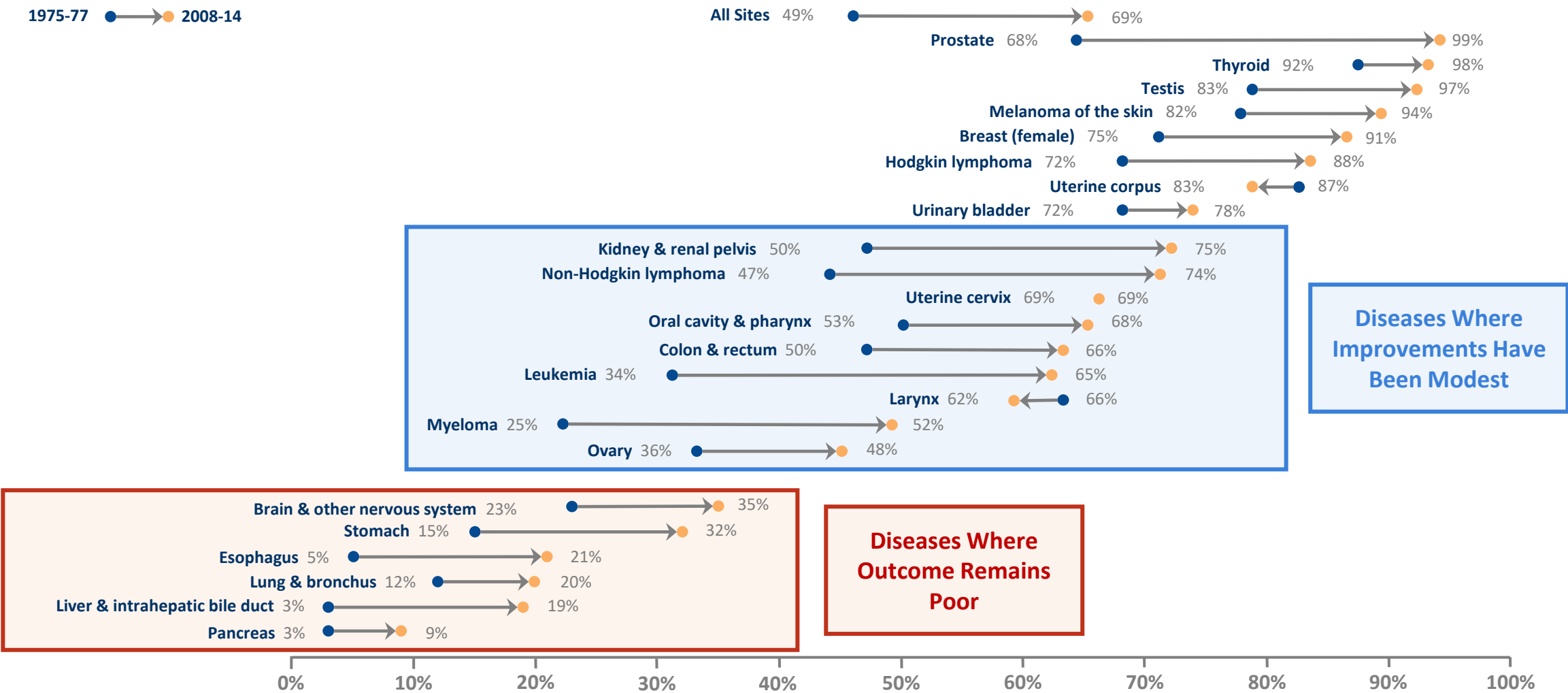
Global Top 10 Cancer Types by Incidence in 2020

Global Top 10 Cancer Types by Mortality in 2020



Source: Globalcan

Improvements in Five-year Survival Rates (USA): Major Unmet Needs Remain, Giving Opportunity for Novel Treatments



Rates are adjusted for normal life expectancy and are based on cases diagnosed in the 9 oldest SEER registry areas from 1975 to 1977 and 2008 to 2014, respectively.
SEER: Surveillance, Epidemiology, and End Results (SEER)

Source: Literature Review, Frost & Sullivan analysis

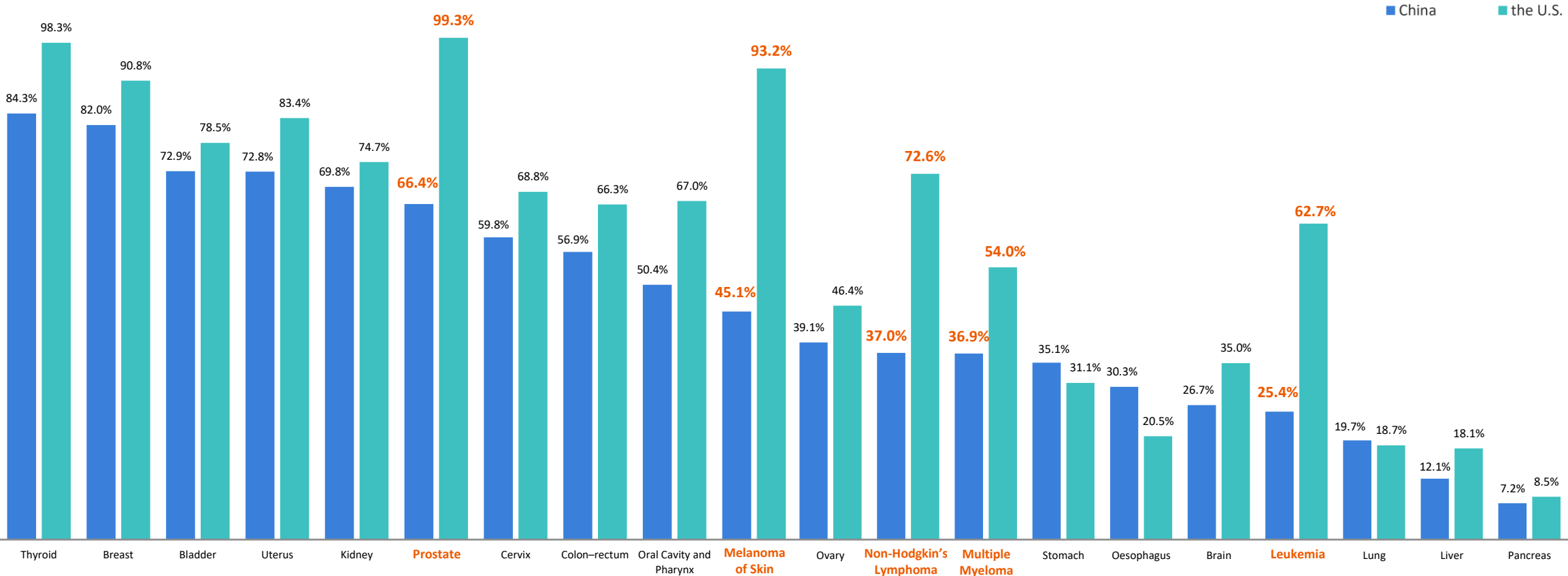
Cancer Outcomes are Geographically Inconsistent



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China’s 5-year survival rate lags substantially behind the U.S. in prostate cancer, melanoma, non-Hodgkin’s lymphoma, and leukemia

5-year Survival Rate of Cancers in China and the U.S.



Source: Globalcan, ACS, NCCR, Frost & Sullivan analysis

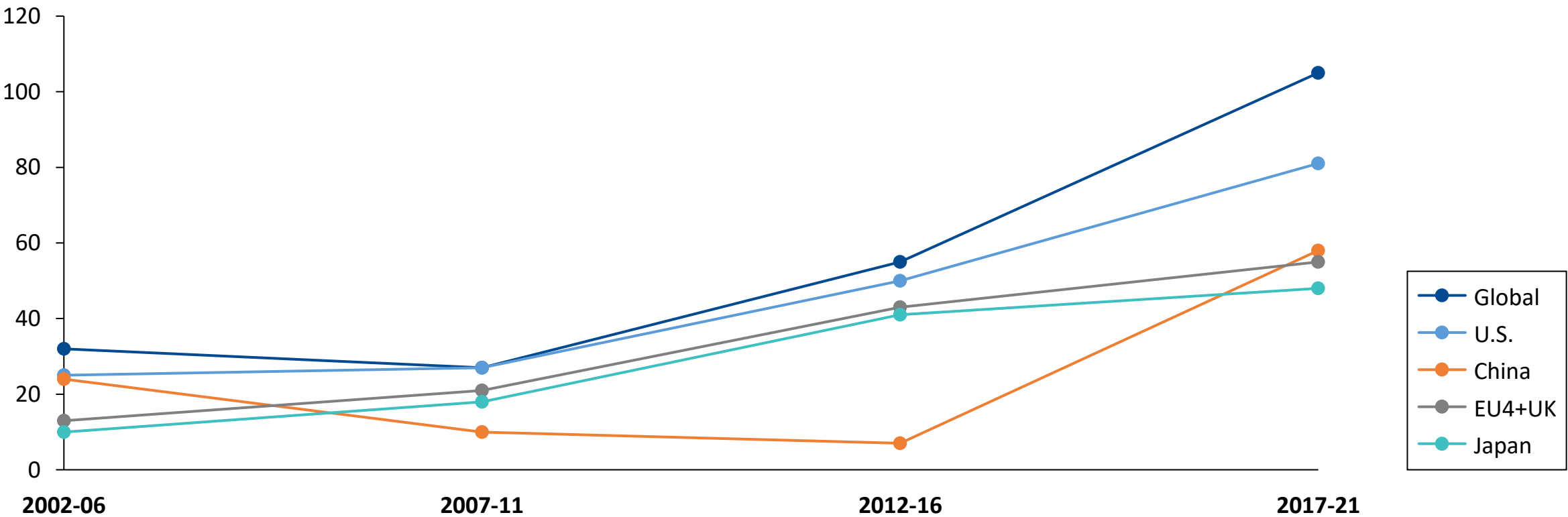
China Has Become a Major Contributor to Oncology Drug Development and Approval



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The number of novel oncology drugs from China that were launched in the last 5 years is second only to the United States

Number of Oncology Novel Drugs Launched Globally and in Selected Countries

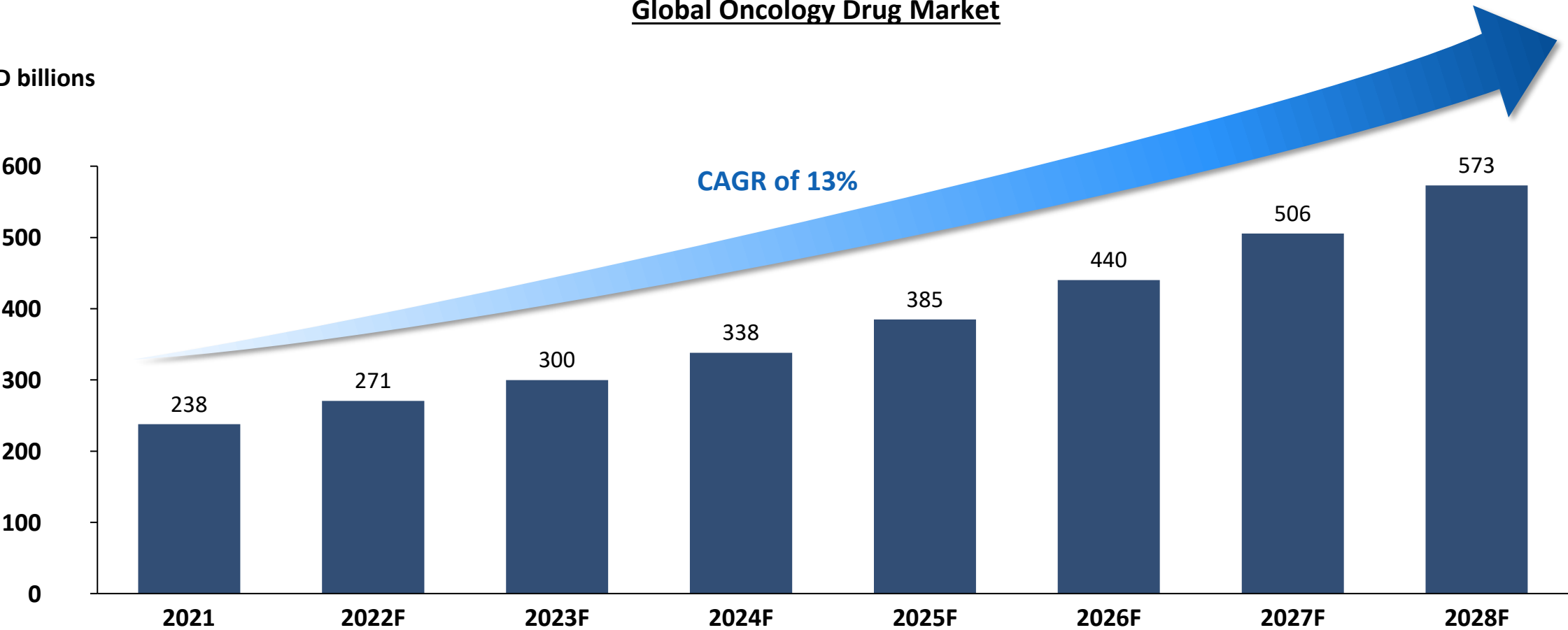


Global Oncology Drug Market is Outgrowing Other Therapeutic Areas

- Global oncology market size is over **\$200 billion** and is expected to grow with a **CAGR of 13%**
 - The growth will be supported by continuous efforts in oncology drug R&D, increasing healthcare related spending, and drug accessibility
- Global oncology market is shifted more towards immunotherapy drugs, followed by targeted drugs in terms of size in the future

Global Oncology Drug Market

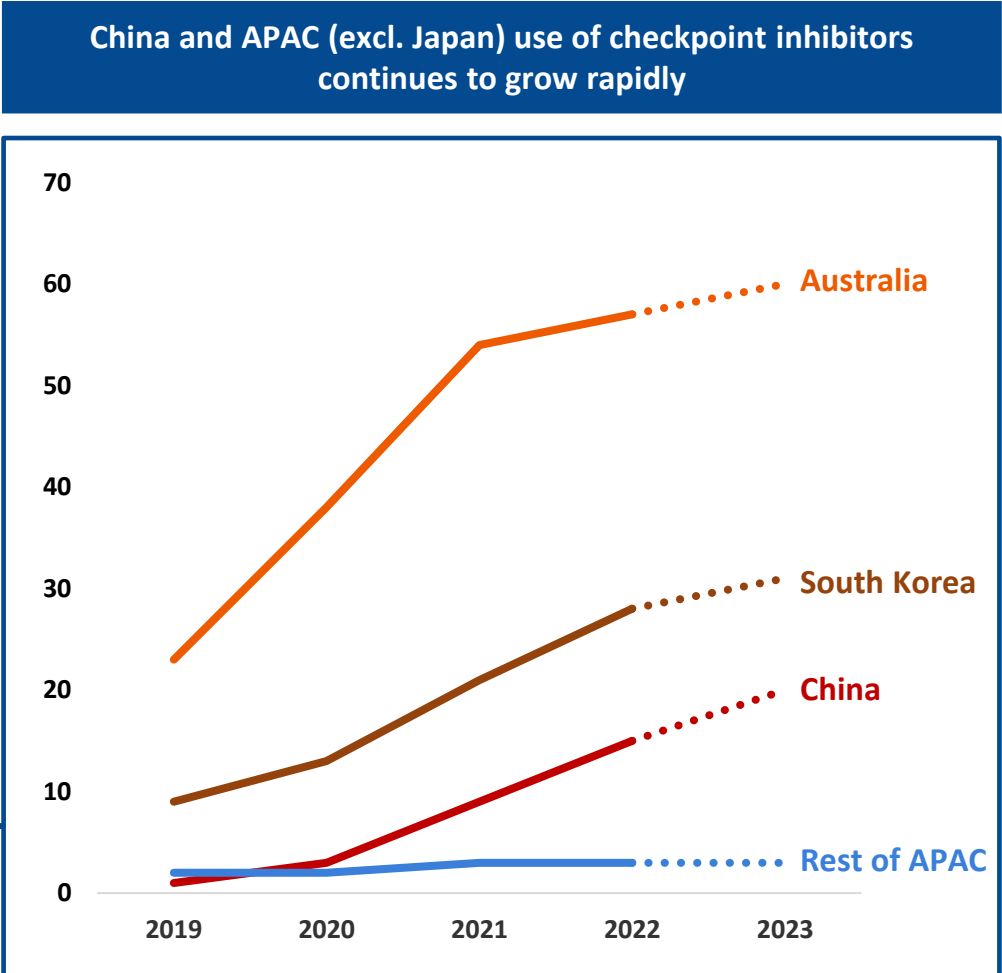
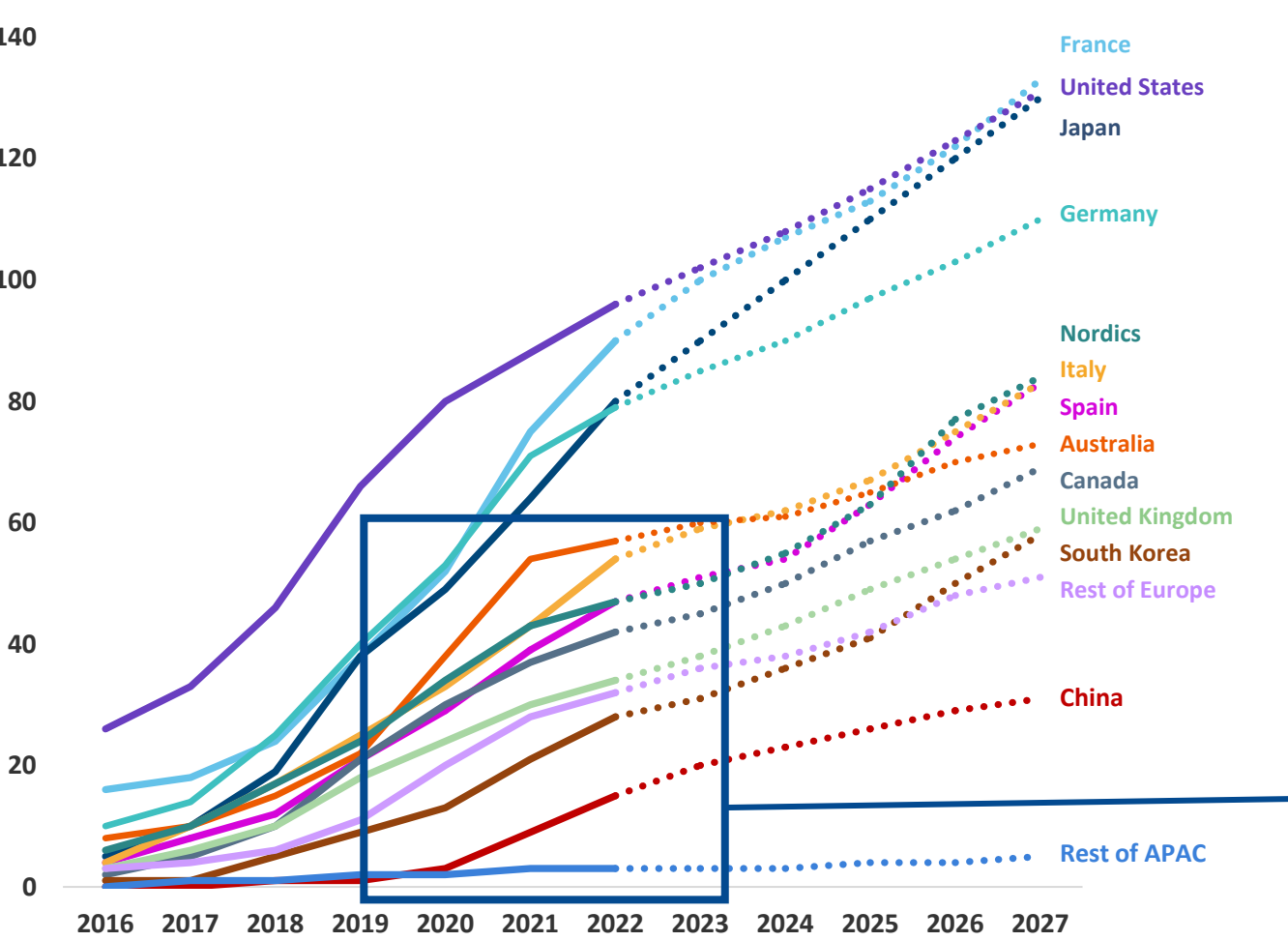
USD billions



Source: GlobalData

Use of Immune Checkpoint Inhibitors Continues to Grow Dramatically in Most Geographies and Has Become a Standard of Care in Many Indications

The global immuno-oncology checkpoint inhibitor markets has been growing rapidly



Dotted lines are forecasts
Source: IQVIA, World Bank Population Estimates

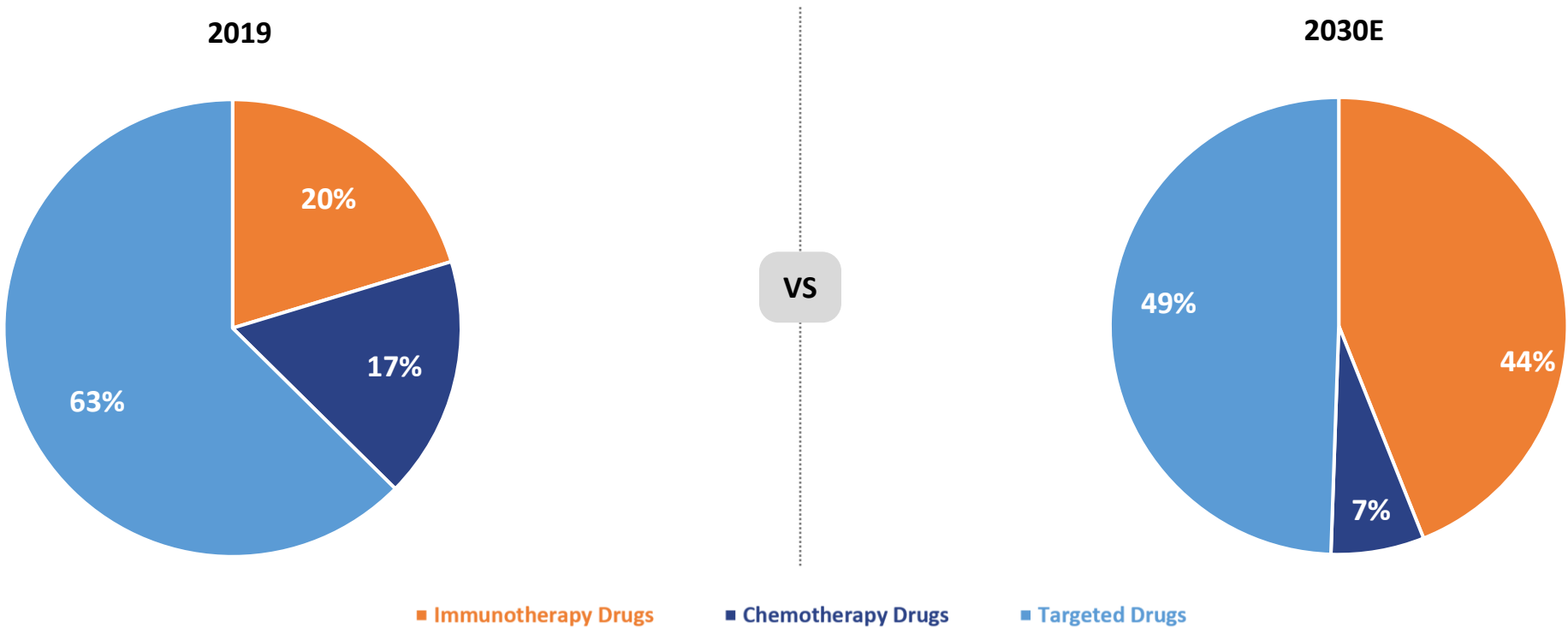
Global Oncology Drug Market will be Dominated by I/O and Targeted Therapies



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- Oncology is at the vanguard of precision medicine: more than 160 oncology biomarkers were approved in 2019, and more than 90% of pivotal trials are against molecular targets*
- Companies transforming oncology treatment will be those with a portfolio embracing novel targeted and immuno-oncology therapies

Breakdown of Global Oncology Drug Market**



* Table of pharmacogenomic biomarkers in drug labelling, Food and Drug Administration, updated December 2019, fda.gov

** Based on sales revenue

Source: Frost & Sullivan analysis

The Antengene Pipeline Includes Multiple Novel Immuno-oncology and Targeted Products – Allowing Broad Proprietary Combinations

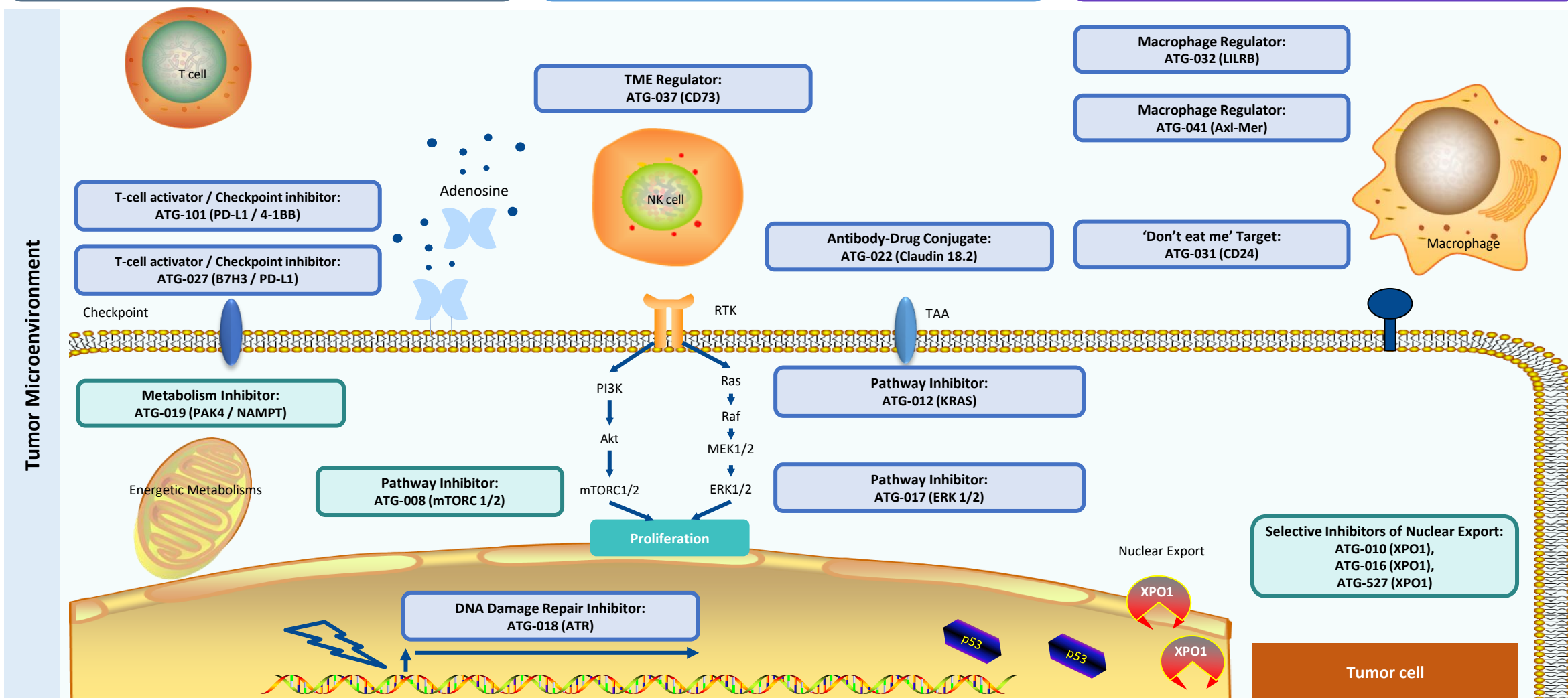


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High Unmet Medical Needs

Rational Combinations

Targeted Agents and Immunotherapies



Assets with Global rights

Assets with APAC rights

Which Malignant Diseases Remain a Focus for Antengene?



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High Unmet Medical Needs



Non-small Cell Lung Cancer

ATG-008 (mTORC1/2)	ATG-017 (ERK1/2)
ATG-101 (PD-L1/4-1BB)	ATG-037 (CD73)
ATG-018 (ATR)	ATG-031 (CD24)

Pancreatic Cancer

ATG-017 (ERK1/2)	ATG-101 (PD-L1/4-1BB)
ATG-018 (ATR)	ATG-022 (Claudin 18.2)

Gastroesophageal Cancer

ATG-101 (PD-L1/4-1BB)	ATG-037 (CD73)
ATG-022 (Claudin 18.2)	

Gynecologic Cancers

ATG-008 (mTORC1/2)	ATG-101 (PD-L1/4-1BB)
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Non-Hodgkin Lymphoma

ATG-010 (XPO1)	ATG-101 (PD-L1/4-1BB)
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Myelodysplastic Syndromes

ATG-016 (XPO1)

Opportunity in China/APAC



Hepatocellular Carcinoma

ATG-008 (mTORC1/2)

Nasopharyngeal Carcinoma

ATG-008 (mTORC1/2)	ATG-101 (PD-L1/4-1BB)
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Head and Neck Squamous Cell Carcinoma

ATG-101 (PD-L1/4-1BB)	ATG-037 (CD73)
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Upper Gastrointestinal Cancers

ATG-101 (PD-L1/4-1BB)	ATG-037 (CD73)
ATG-022 (Claudin 18.2)	

Melanoma

ATG-017 (ERK1/2)	ATG-101 (PD-L1/4-1BB)
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Extranodal NK/T cell Lymphoma

ATG-010 (XPO1)

Strong Biological Rationale



Targeting Specific Mutations

ATG-008 (mTORC1/2)	ATG-016 (XPO1)
ATG-017 (ERK1/2)	ATG-018 (ATR)
ATG-022 (Claudin 18.2)	

Multiple Myeloma

ATG-010 (XPO1)	ATG-037 (CD73)
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Myelofibrosis

ATG-010 (XPO1)

"Don't Eat Me" Signaling

ATG-031 (CD24)

Huge potential for portfolio synergies and efficiencies via rational in-house drug combinations

- How can we regulate the tertiary structure of the immune microenvironment?
- What genetic changes drive resistance?
- What signaling pathways are activated and targetable?



- How do cancer cells hide from the immune system?
- Are there additional immune regulators that can be modulated?
- What cell surface targets drive cancer invasion and metastasis?
- Are there critical metabolic changes that contribute to immunosuppression?

- These are questions that **we cannot answer alone**
- It is a critical part of our development philosophy that we **build and extend existing relationships with key institutions and investigators worldwide**
- We are establishing **multi-disciplinary partnerships** with these institutions, including collaborations across **preclinical, clinical and translational research** disciplines

Drug Resistance

Metabolic Changes

- Immunosuppressive metabolic environment
- Suppression of glycolytic capacity
- Metabolic switch to pro-survival

Genetic Alterations

- Signaling pathway activation
- Additional mutations
- Epigenetic silencing

Tumor Microenvironment

- 'Cold' or 'Hot'
- Tertiary structure changes

Immune Down-regulation

- T-cell exhaustion
- Immune cell changes (e.g. TAMs, "don't eat me")
- Alternate immune CP activation
- Inhibitory cytokines

Antengene Drugs Targeting Each Factor Driving Resistance

Drug Resistance

Metabolic Changes

- Immunosuppressive metabolic environment
- Suppression of glycolytic capacity
- Metabolic switch to pro-survival

ATG-037 (CD73)
ATG-019 (PAK4/NAMPT)
ATG-008 (mTOR1/2)

Genetic Alterations

- Signaling pathway activation
- Additional mutations
- Epigenetic silencing

ATG-017 (ERK1/2) **ATG-012 (KRAS)**
ATG-008 (mTORC1/2) **ATG-018 (ATR)**
ATG-022 (CLDN18.2) **ATG-010 (XPO1)**
ATG-016 (XPO1)

Tumor Microenvironment

- 'Cold' or 'Hot'
- Tertiary structure changes

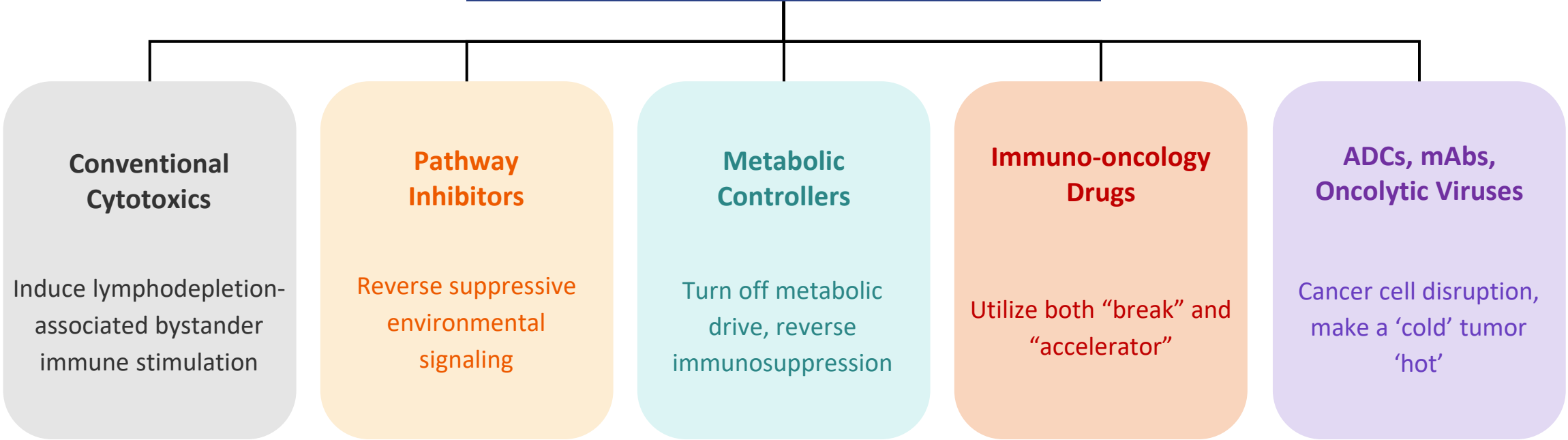
Immune Down-regulation

- T-cell exhaustion
- Immune cell changes (e.g. TAMs, "don't eat me")
- Alternate immune CP activation
- Inhibitory cytokines

ATG-101 (PD-L1/4-1BB)
ATG-027 (B7H3/PD-L1)
ATG-031 (CD24)
ATG-032 (LILRB)
ATG-041 (Alx-Mer)

Combinations may offer the greatest chance of success in the next advances in cancer treatments

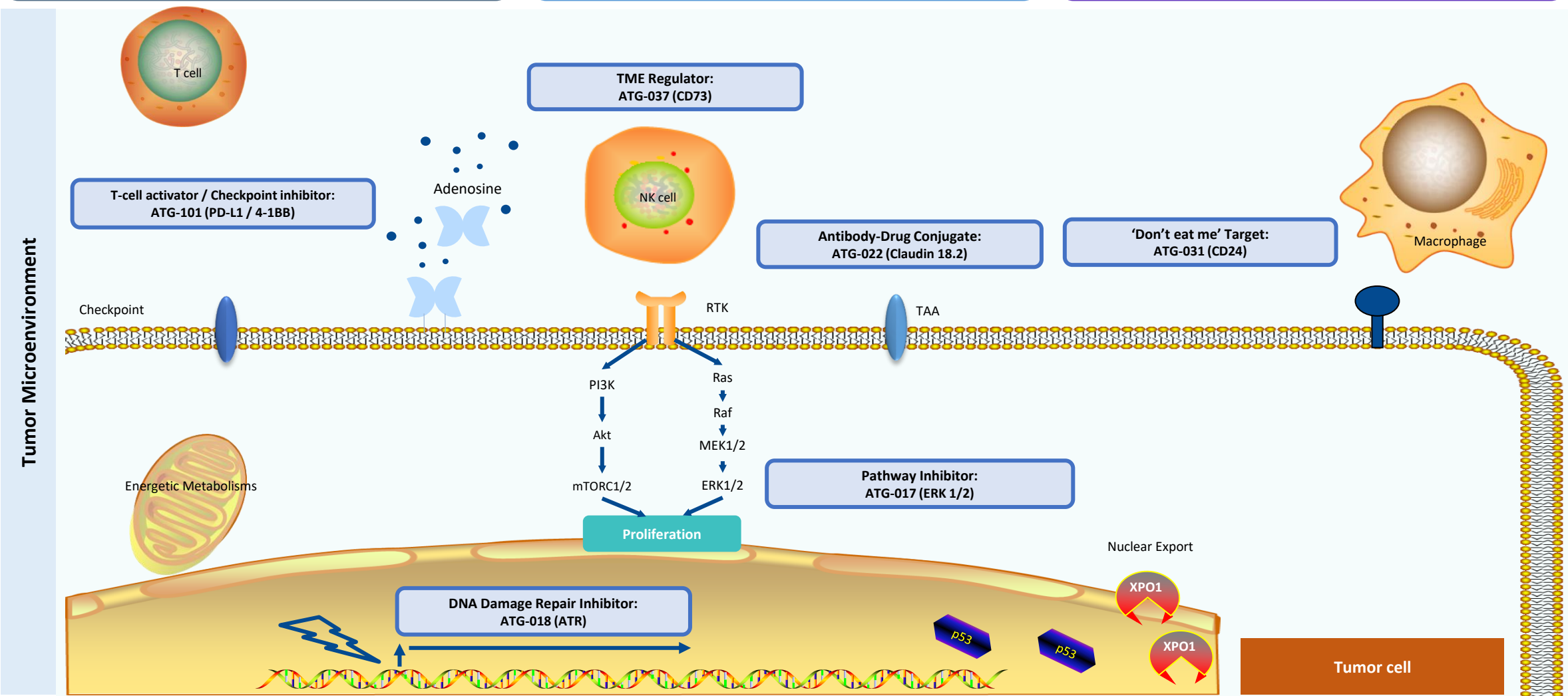
Cancer treatment regimens with direct or indirect immune-mediated effects



ATG-017 (ERK1/2 Small Molecule Inhibitor)	ATG-101 (PD-L1/4-1BB Bispecific Antibody)
ATG-037 (CD73 Small Molecule Inhibitor)	ATG-018 (ATR Small Molecule Inhibitor)
ATG-022 (Claudin 18.2 Antibody-drug Conjugate)	ATG-031 (CD24 Monoclonal Antibody)

Highlighting Our First-in-Human Portfolio

- High Unmet Medical Needs
- Rational Combinations
- Targeted Agents and Immunotherapies



Pipeline Comprised of Clinical Stage and IND-Ready Assets with First and/or Best-in-Class Potential



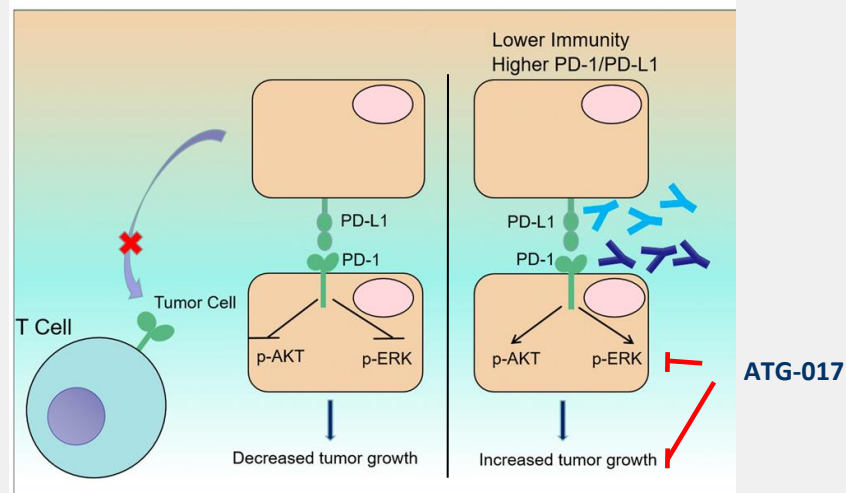
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	ATG-017 (Tizaterkib)	ATG-101	ATG-037	ATG-018	ATG-022	ATG-031
Target	ERK1/2	PD-L1/4-1BB	CD73	ATR	Claudin 18.2	CD24
Modality	Small Molecule	Bispecific Antibody	Small Molecule	Small Molecule	ADC	Monoclonal Antibody
Indication	<ul style="list-style-type: none"> RASm NSCLC, Pancreatic cancer, CRC, and Melanoma I/O combinations 	<ul style="list-style-type: none"> Re-sensitize prior CPI responders (NSCLC, SCLC, GI, H/N SCC, melanoma) Disease with previously limited CPI activity Multiple combination opportunities 	<ul style="list-style-type: none"> Monotherapy where immune suppressed TME is critical Broad opportunities both as monotherapy and combination with existing / future I/O 	Hematological Malignancies / Solid Tumors	Solid Tumors	Hematological Malignancies / Solid Tumors
Differentiation	<ul style="list-style-type: none"> ✓ Higher potency and dual IoC and PoA activity with slow off-rate kinetics ✓ Lower efficacious dose with a higher max absorbable dose/dose ratio ✓ Broad therapeutic potential (targeting RAS/MAPK pathway) ✓ Multiple combination opportunities 	<ul style="list-style-type: none"> ✓ PD-L1 cross-linking dependent activation of 4-1BB to avoid unwanted 4-1BB signaling in normal tissue and minimize risk of hepatotoxicity ✓ Demonstrated significant anti-tumor activity in animal models of resistant tumors as well as those that progressed on anti-PD-1/L1 treatment ✓ Displayed an excellent safety profile in GLP toxicology studies 	<ul style="list-style-type: none"> ✓ Orally bioavailable small molecule that completely overcomes 'hook effect' common in other anti-CD73 antibodies ✓ Tissue penetrance not achievable with mAbs ✓ Promising preclinical efficacy as a monotherapy and strong combination potential 	<ul style="list-style-type: none"> ✓ Better in vivo efficacy compared with benchmark in pre-clinical CDX tumor models ✓ Orally available 	<ul style="list-style-type: none"> ✓ High affinity antibody (pM); Strong in vivo efficacy pre-clinically in Claudin 18.2 low expression PDX models ✓ Demonstrated an excellent safety profile in GLP toxicology studies 	<ul style="list-style-type: none"> ✓ First in class target ✓ No clinical competitor ✓ Showed mono-therapy in vivo efficacy and synergy with chemotherapy, rituximab and CPI
Status	Currently in the 6 th cohort in solid tumors of "ERASER" trial, dosing in BID; combo with nivolumab planned for late 2022	Phase 1 clinical trial "PROBE" ongoing in Australia (4 th cohort), first patient to be dosed in the US; "PROBE-CN" ongoing in China (3 rd cohort)	Phase 1 clinical trial "STAMINA" ongoing in Australia, currently in 2 nd cohort	Phase 1 clinical trial "ATRIUM" ongoing in Australia, currently enrolling for the 3 rd cohort	EC submitted in October 2022	IND planned for H1 2023

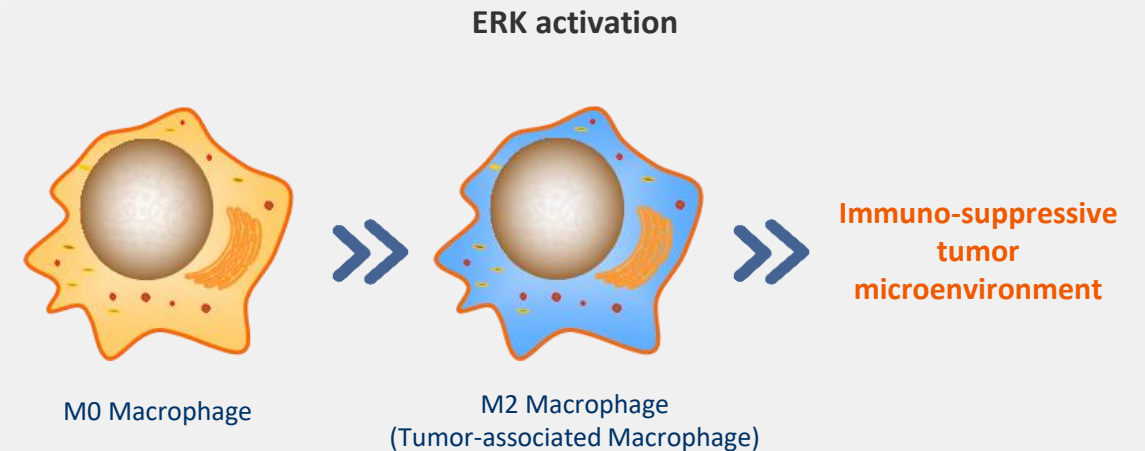
ATG-017 May Enhance the Activity of Checkpoint Inhibitors or Reverse Resistance Mechanisms

Through inhibiting ERK1/2 activity, ATG-017 may enhance the activity of checkpoint inhibitors or reverse resistance mechanisms

ERK activation contributes to hyper-progressive disease induced by anti-PD-1 therapy



ERK activation contributes to M2 macrophage polarization and immuno-suppressive tumor microenvironment



- PD-1/PD-L1 expression on tumor cells inhibit tumor cell growth through deregulation of canonical signaling pathways, including the AKT and ERK1/2 pathways, and prevent the interaction with PD-1-expressing T cells
- Clinically available antibodies targeting PD-1 (blue) or PD-L1 (cyan) enhance tumor cell growth via activation of AKT and ERK1/2 in the absence of adaptive immunity, which may be associated with hyper-progressive and pseudo-progressive disease in the clinic.

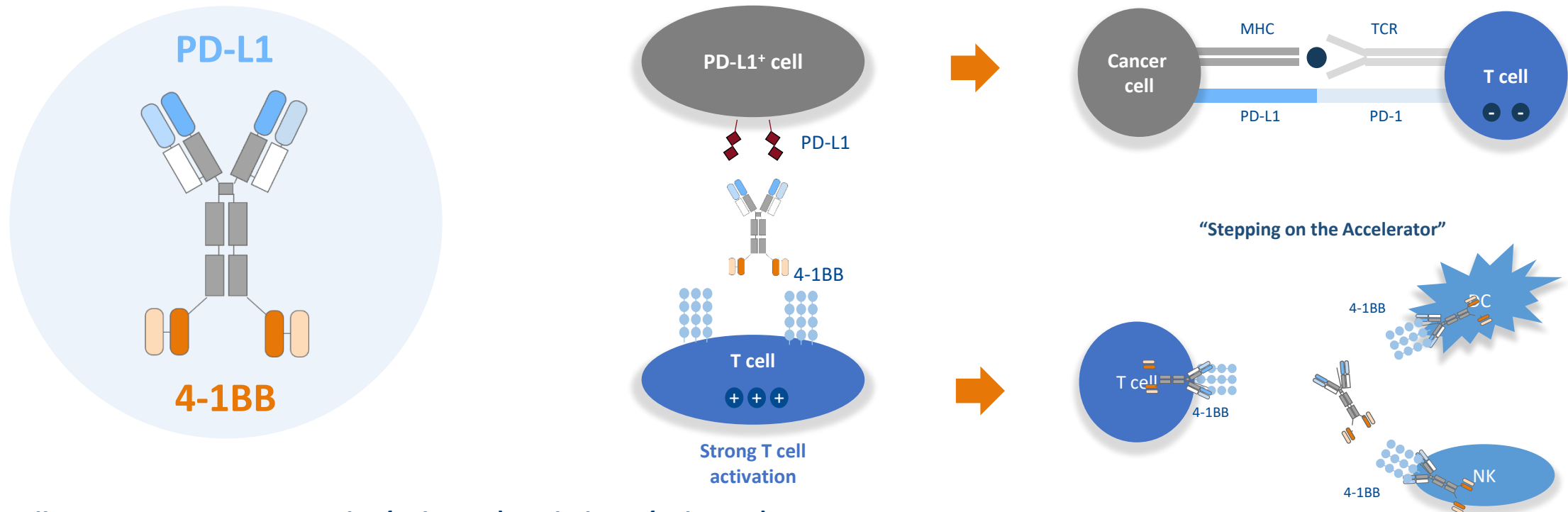
- Multiple lines of research suggests that **ERK1/2 activation** contributes to:
 - **Tumor-associated macrophage infiltration and M2 macrophage polarization**, causing an immunosuppressive microenvironment and reduced efficacy of anti-PD-1 therapy

Enrollment ongoing in Australia (cohort 6)

ATG-101 Has the Potential to Optimize PD-L1 Antagonism and Tumor-specific 4-1BB Agonism

- Efficacy of PD-1/PD-L1 targeting is **well-demonstrated over the past decade**
- 4-1BB is a T cell co-stimulatory receptor, **the benefits of which have yet to be realized in the clinic**
- The concept of PD-L1×4-1BB bispecific antibody like ATG-101 has demonstrated **promising activity in early clinical trials** with an **acceptable safety profile** (GEN1046, NCT03917381)
- Novel design of ATG-101: high affinity of PD-L1 and conditional activation of 4-1BB, results in **4-1BB agonist activity only when crosslinked by PD-L1-positive tumor cells**
- Biodistribution murine model confirms **PD-L1 drug localization**¹

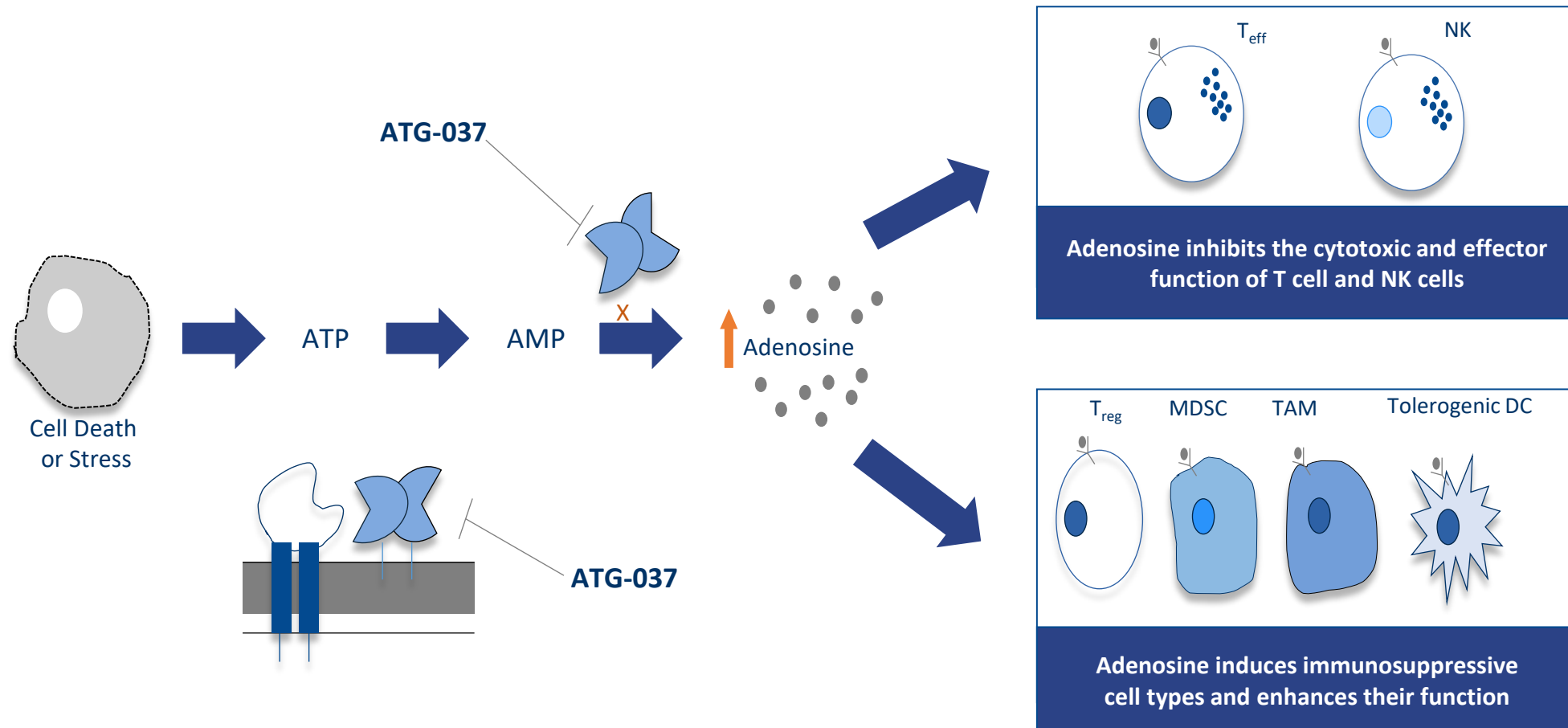
Complementary Mechanism of PD-L1/4-1BB



Enrollment ongoing in Australia (cohort 4) and China (cohort 3)

ATG-037 Can Reverse Adenosine-Mediated Immunosuppression

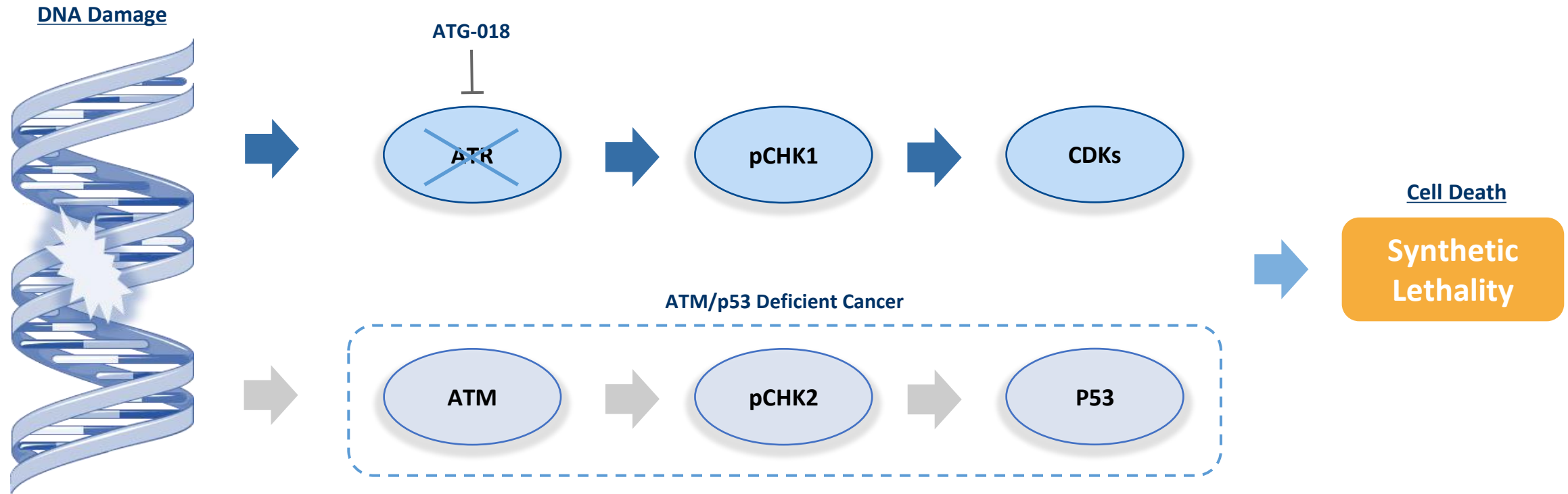
The adenosine axis plays a well-established and critical role in suppression of the immune response and ATG-037 can reverse adenosine-mediated immunosuppression



First patient enrollment in Australia – June 2022

ATG-018 is an Oral and Highly Selective Small Molecule Inhibitor of ATR that may Improve on Benchmark ATR Inhibitors

- Many patients with malignant tumors carry **genetic alternations** which correlate with **functional loss or deregulation of key DDR proteins**, most notably **p53** and **ATM**
- These tumors **extensively rely on ATR** for DNA repair
- ATG-018 can **inhibit DNA damage repair**, release tumor cells from cell cycle arrest and **induce synthetic lethality** in ATM/p53-deficient tumor cells

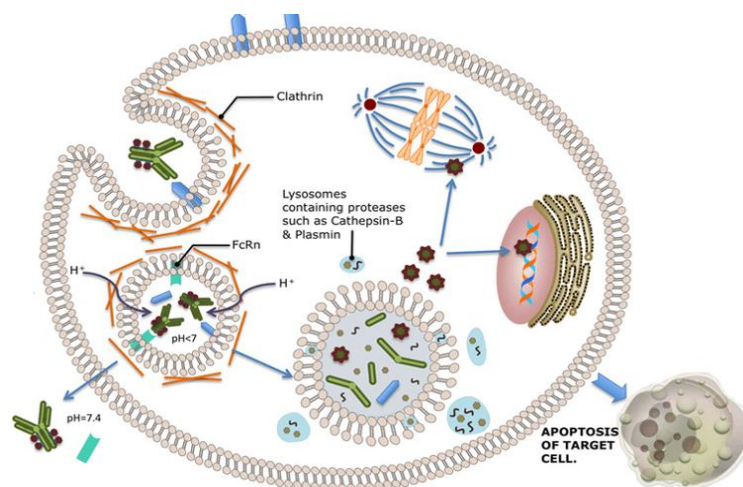
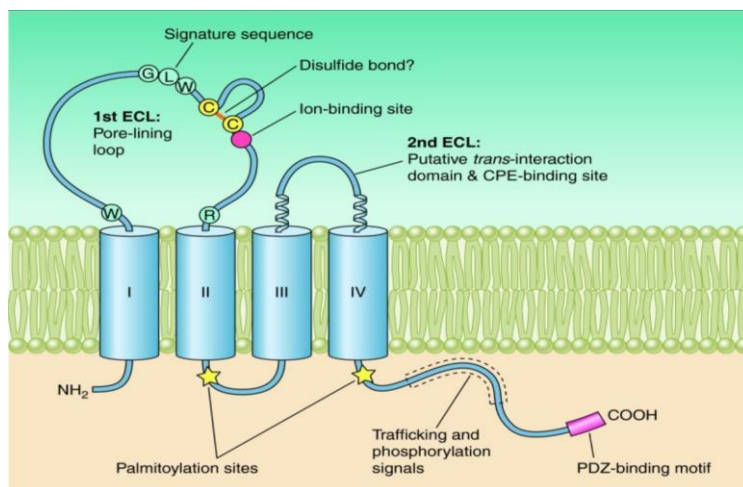


Enrollment to cohort 2 complete and starting cohort 3

ATG-022 is a High Affinity Anti-Claudin 18.2 ADC with Potential Activity Even in Tumors with Very Low Level Expression of the Target



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Claudin 18.2 over-expressed in multiple tumor types



Esophagus Cancer

- Positive in **18.2%** primary adenocarcinoma
- Positive in **17.9%** regional lymph node metastasis

Gastric Cancer

- Positive in **87%** primary tumors
- Positive in **80%** lymph node metastasis
- Anti-Claudin 18.2 antibody, IMAB362 (zolbetuximab), demonstrated **promising efficacy** in human clinical trials

Pancreatic Cancer

- Positive in **45%-90%** ductal adenocarcinoma
- Expressed in **34%** of metastatic lesions

Other Tumors

- Claudin 18.2 mRNA expression was detected in multiple tumor types including NSCLC, ovarian cancer, and colorectal cancer

Australian HREC submission completed in October 2022

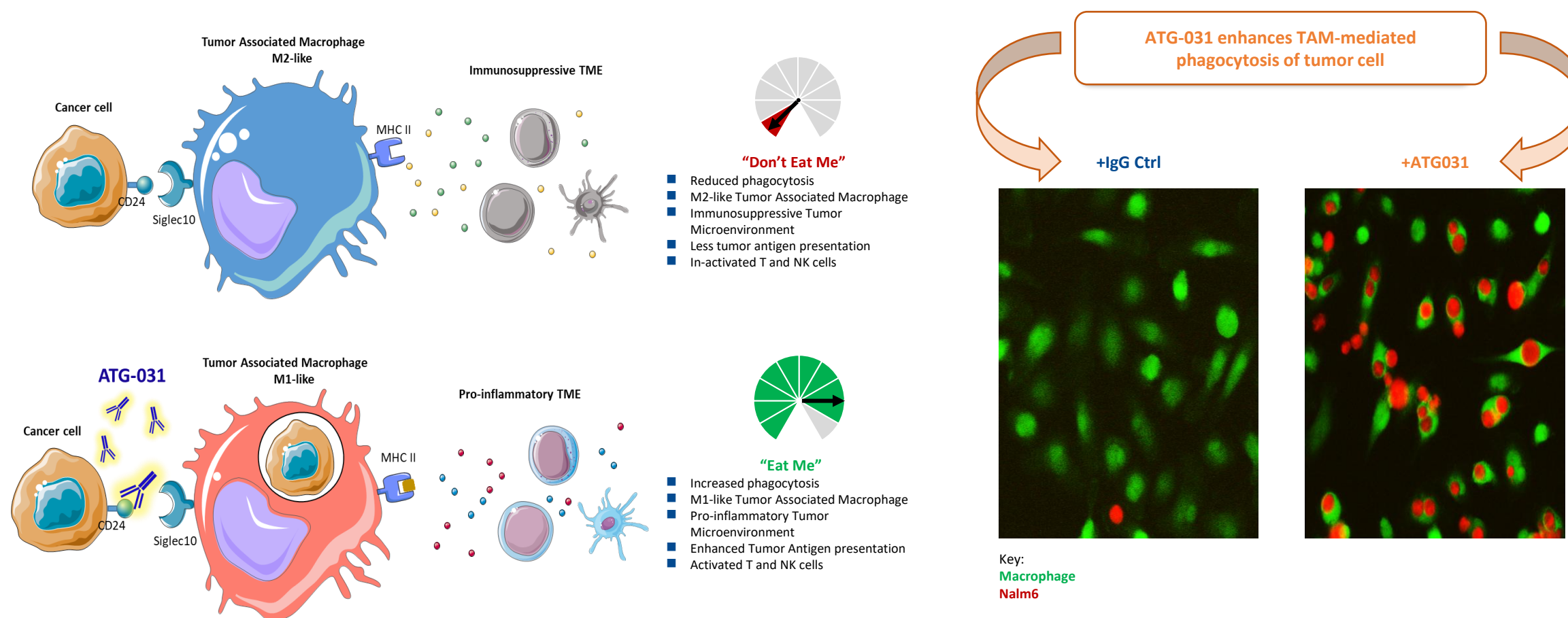
Source: Gunzel & Yu, 2013; Moentenich, 2020; Peters & Brown, 2015; Rohde, 2019; Türeci, 2019; Zhu, 2019

ATG-031 is a First-in-Class Anti-CD24 Monoclonal Antibody that should Enhance TAM-Mediated Phagocytosis and Represent a New Class of I/O Drug





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- CD24 is a **novel “don’t eat me” target**, a **tumor-associated antigen** for multiple solid tumors and B cell malignancies, and a **marker for cancer stem cell**
- Blocking CD24 by ATG-031 **enhances macrophage-mediated phagocytosis of cancer cells**
- Potent **single agent** in vivo efficacy and **synergy with chemotherapy or CPI**



Pipeline of Near-to-midterm Drug Candidates with First-in-class / Best-in-class Potential

Assets	Target (Modality)	Indication	Pre-clinical	Phase I	Phase II	Phase III	NDA	Commercialization	Antengene Rights	Partner
ATG-010 ¹ (Selinexor)	XPO1 (Small molecule)	R/R Multiple Myeloma	Combo with dexamethasone (MARCH) Mainland China NDA approved							
			Combo with dexamethasone (STORM) – Partner’s Pivotal Trial in the US US, EU, SK, SG, AU & TW NDA approved							
			Combo with bortezomib and dexamethasone (BENCH)★							
			Combo with bortezomib and dexamethasone (BOSTON) – Partner’s Pivotal Trial in the US US, EU, SG, AU & TW sNDA approved							
			Combo with IMiD/PI/CD38 mAb and dexamethasone (STOMP)							
		R/R Diffuse Large B-cell Lymphoma	Monotherapy (SEARCH)★							
			Monotherapy (SADAL) – Partner’s Pivotal Trial in the US US , SG, SK & TW sNDA approved							
			Combo with R-GDP (DLBCL-030)★							
		R/R NHL	Combo with lenalidomide + rituximab (SWATCH)							
		R/R T-cell & NK-cell Lymphoma	Combo with ICE/GemOx/tislelizumab (TOUCH) with 							
Myelofibrosis	Monotherapy (MF 035)★									
ATG-016 (Eltanexor)	XPO1 (Small molecule)	R/R MDS	Monotherapy (HATCH)							
			Monotherapy (KCP-8602-801)							
ATG-008 (Onatasertib)	mTORC1/2 (Small molecule)	2L+ HBV+ Hepatocellular Carcinoma	Monotherapy (TORCH)							
		Cervical Cancer and Other Advanced Solid Tumors	Combo with toripalimab (TORCH-2)* with 							
		R/R Diffuse Large B-cell Lymphoma	Combo with ATG-010 (MATCH)							

Antengene Trials⁴

Partner Trials⁵

Global Trials in Collaboration with Partner

★ Registrational Trial in China

¹ (s)NDA approved by US FDA, China NMPA, Australia TGA, South Korea MFDS and Singapore HSA; China Hong Kong and China Taiwan NDA submissions are completed;

² Antengene has rights for Greater China (Mainland China, Hong Kong, Taiwan, Macau), Australia, New Zealand, South Korea, and the ASEAN Countries;

³ Antengene has rights for Greater China, South Korea, Singapore, Malaysia, Indonesia, Vietnam, Laos, Cambodia, the Philippines, Thailand and Mongolia;

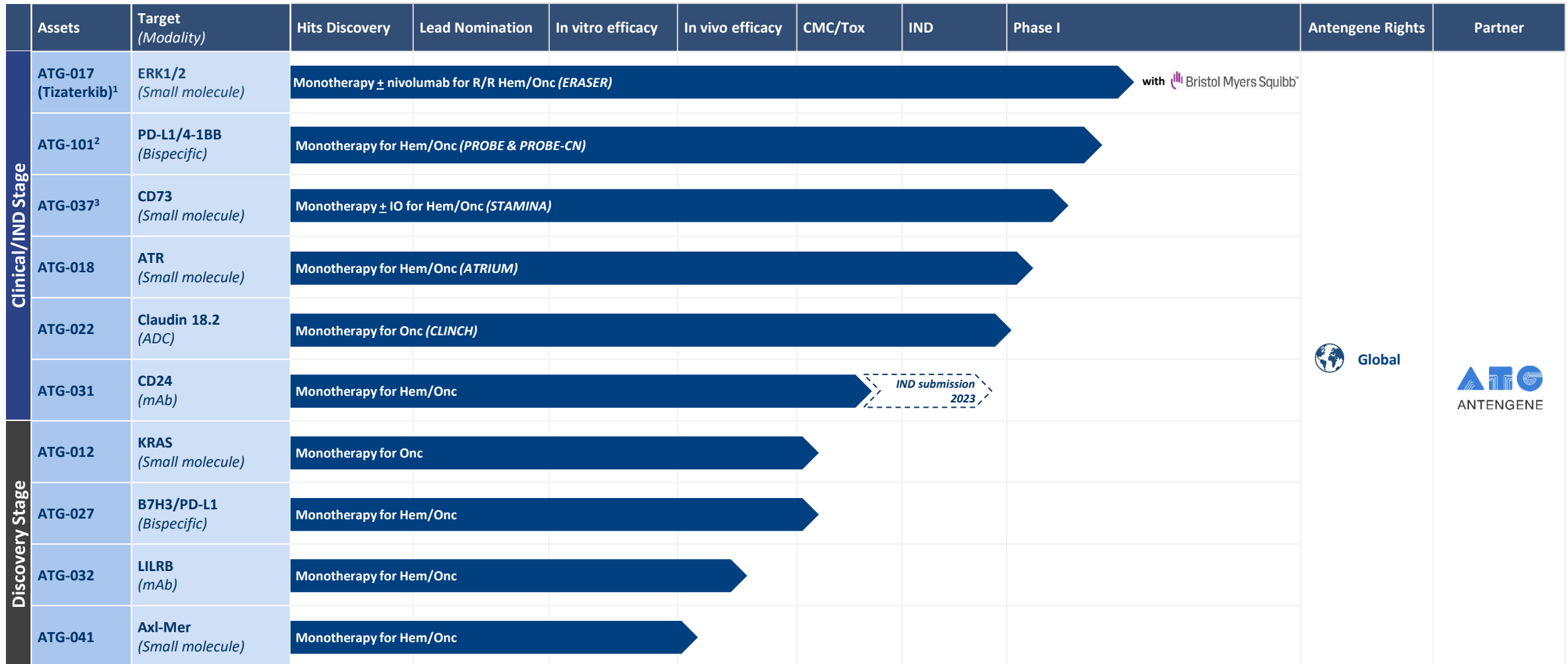
⁴ Most advanced trial status in Antengene territories and the trials are responsible by Antengene;

⁵ Most advanced trial status in partner territories in the rest of the world and the trials are conducted by our licensing partners

* Investigator-initiated trials; R/R: relapsed/refractory; ND: newly diagnosed; MDS: myelodysplastic syndrome; CRC: colorectal cancer; PrC: prostate cancer; CAEBV: chronic active Epstein-Barr virus; NHL: non-Hodgkin lymphoma; Hem/Onc: hematological malignancies and solid tumors; R-GDP: Rituximab, Gemcitabine, Dexamethasone & Cisplatin;

AU: Australia; EU: Europe; SG: Singapore; SK: South Korea; TW: Taiwan; US: United States;

An Early-stage In-house Pipeline with Transformational Potential



Antengene Trials

¹ Licensed from AstraZeneca and Antengene has obtained exclusive global rights to develop, commercialize and manufacture ATG-017;

² Licensed from Origincell and Antengene has obtained exclusive global rights to develop, commercialize and manufacture ATG-101;

³ Licensed from Calithera Biosciences and Antengene has obtained exclusive global rights to develop, commercialize and manufacture ATG-037

* ATG-037 IND equivalent in Australia = institutional scientific and ethics review before governmental notification
Hem/Onc = hematological malignancies and solid tumors



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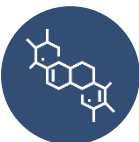

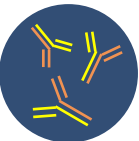

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LATER-PHASE CLINICAL PROGRAMS UPDATE

Overview of Clinical Portfolio



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	Early Pipeline/First-in-Human	Phase Ib/Phase II	Pivotal/Phase III
 Small Molecule Inhibitor	<ul style="list-style-type: none"> • ATG-017 (ERK1/2) – ERASER • ATG-018 (ATR) – ATRIUM • ATG-037 (CD73) – STAMINA 	<ul style="list-style-type: none"> • ATG-010 (XPO1) – XPORT-030, MATCH, SWATCH, TOUCH, MF-034 (planning) • ATG-008 (mTORC1/2) – TORCH, TORCH-2, MATCH 	<ul style="list-style-type: none"> • ATG-010 (XPO1) – BENCH – SEARCH – XPORT-030 – MF-035
 Monoclonal Antibody	<ul style="list-style-type: none"> • ATG-031 (CD24) – IND planned for H1 2023 	TBD	TBD
 Bispecific Antibody	<ul style="list-style-type: none"> • ATG-101 (PD-L1/4-1BB) – PROBE & PROBE-CN 	TBD	TBD
 Antibody-Drug Conjugate	<ul style="list-style-type: none"> • ATG-022 (Claudin 18.2) – CLINCH 	TBD	TBD



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mTORC1/2 INHIBITOR

ATG-008 (Onatasertib): A Novel Second Generation mTORC1/2 Inhibitor



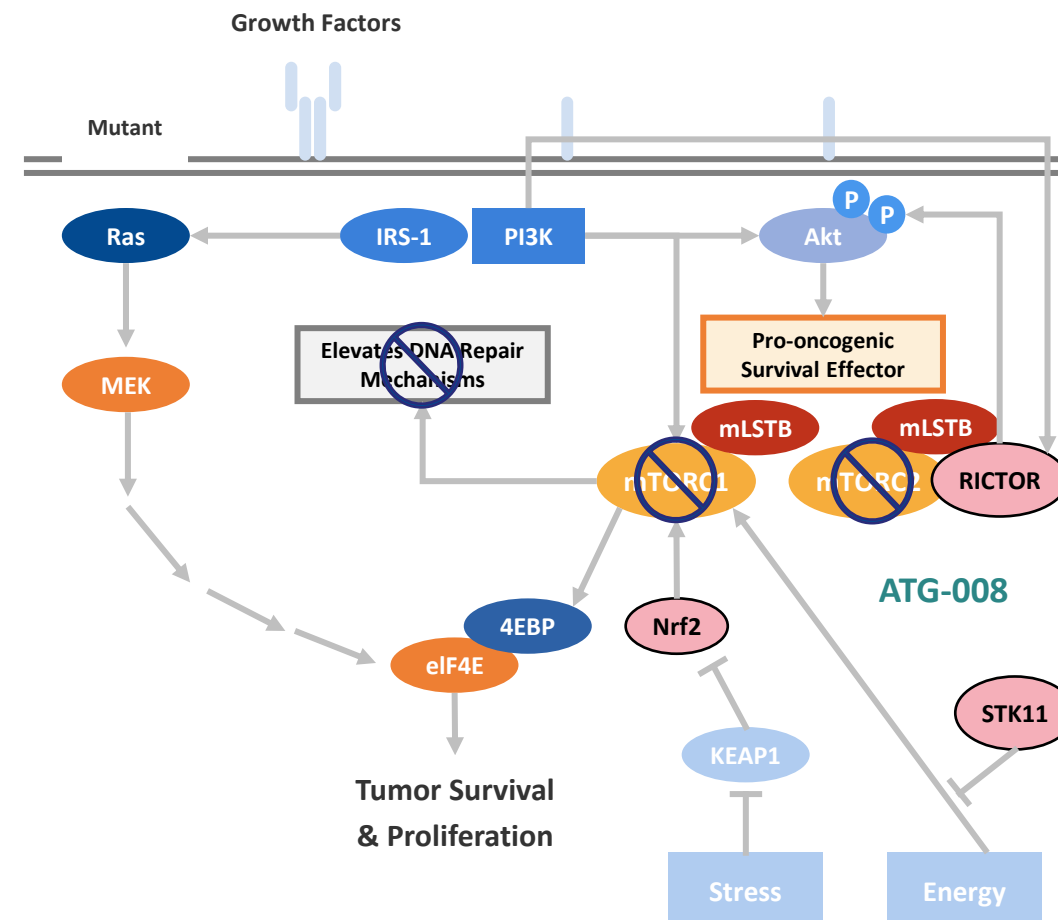
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Summary of ATG-008 (Onatasertib)

- **Mammalian target of rapamycin (mTOR)**, a core component of two structurally distinct protein complexes (mTORC1 and mTORC2), **regulates different cellular processes and is upregulated in multiple types of tumors**
- When mTORC1 is inhibited, mTORC2 is upregulated. This increase in mTORC2 activity generates a surplus of phosphorylated PKB/AKT which, despite mTORC1 inhibition, inhibits apoptosis and promotes cell proliferation via alternative pathways
- mTORC1 and mTORC2 has to be **inhibited simultaneously** for good anti-tumor efficacy

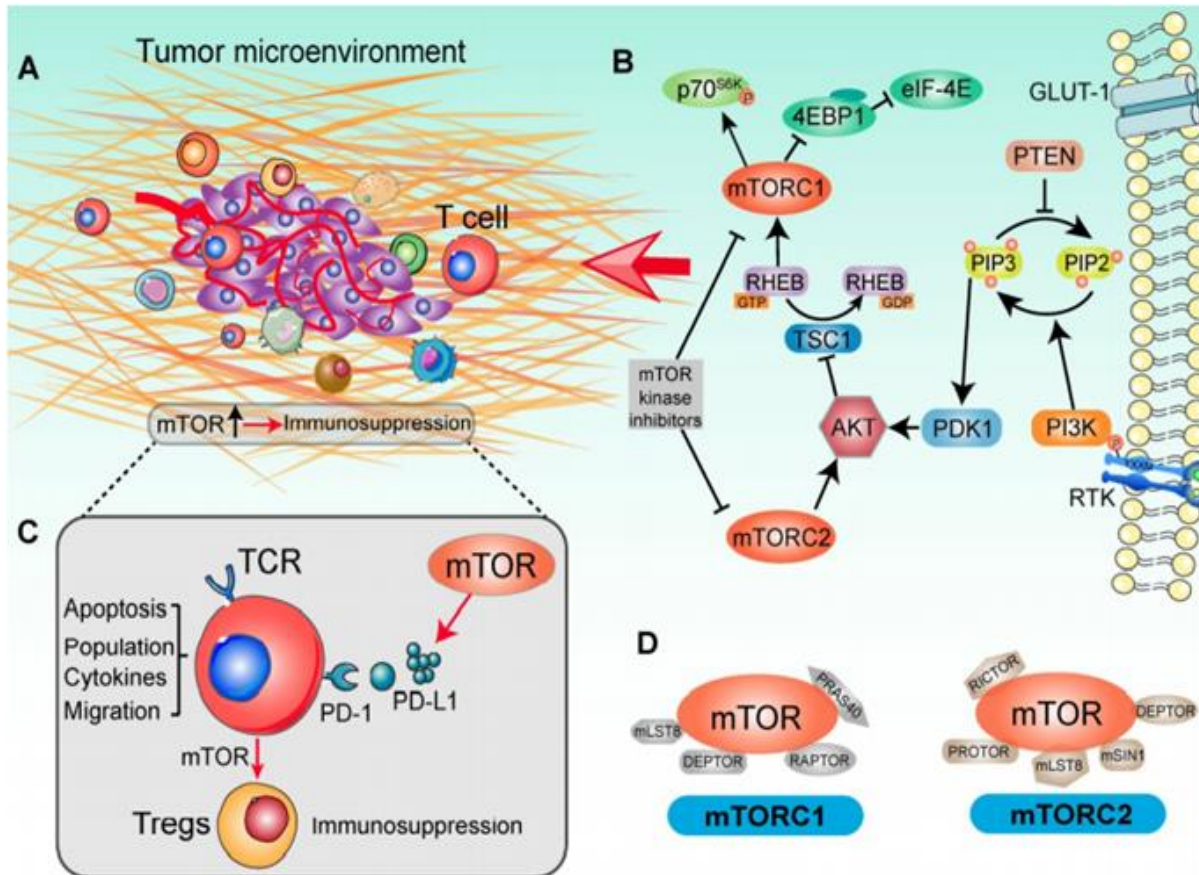
First- and Best-in-Class Potential

- **Second generation mTOR inhibitor**, targeting both **TORC1 and TORC2**
- Demonstrated **comprehensive mTOR inhibition**, which could **minimize development of resistance due to mTORC2 upregulation**
- **Encouraging initial clinical data** in combination with anti-PD-1 mAb in the treatment of **relapsed or metastatic cervical cancer**



Rationale for ATG-008 (Onatasertib) in Combination with Anti-PD-1/PD-L1 Regimen

mTOR Signaling Pathway Plays Multiple Roles in Immune Cell Biology



mTORC 1 Inhibition

- Increases **effector responses**

mTORC 2 Inhibition

- Up-regulates **CD8+ T cell memory**

Blockade of PD-L1 with anti-PD-L1 mAb and Inhibiting mTOR

- Leads to the enhancement of **peripheral antigen-specific CD8+ Tumor-infiltrating lymphocytes (TILs) and/or NK cells**, thus supporting a more effective and durable control of tumors

Blockade of PD-1 with anti-PD-1 mAb and Inhibiting mTOR

- Generates **synergistic anti-tumor effects** across tumor models, including HCC, RCC, Oral SCC etc.

ATG-008 “TORCH-2” Clinical Trial Design



ANTENGENE

An Open-label, Phase I/II Dose-escalation and Expansion Study With a Dual TORC1/2 Inhibitor of ATG-008 (Onatasertib) Combined with PD-1 Antibody Toripalimab in Advanced Solid Tumors

Location: Mainland China

Key Eligibility Criteria:

■ Dose Escalation:

- Adv. R/R Solid tumors
- Have not received prior immunotherapy (PD-1, PD-L1, CTLA-4, CAR-T), or mTOR/PI3K/AKT inhibitors

■ Dose Expansion:

- Solid tumors (incl. HCC, NET, adv. gynaecologic cancers, GBM)
- At least 1 prior systemic therapy
- Have not received prior mTOR/PI3K/AKT inhibitors

Phase I

Dose Escalation

ATG-008 (Onatasertib) + Toripalimab (21-day cycle)

Starting dose level

Onatasertib: 15 mg PO once daily
Toripalimab: 240 mg IV inf every 3 weeks

“3+3” dose escalation

*Until disease progression or unacceptable toxicity
(Max. 2 years therapy with Toripalimab; Onatasertib monotherapy beyond 2 years)*

Primary endpoint:

Dose escalation: MTD, RP2D
Dose expansion: ORR

Secondary endpoints:

Dose escalation: PK, ORR
Dose expansion: DOR, DCR, PFS, OS, incidence of ADA

Phase II

Dose Expansion

ATG-008 (Onatasertib) + Toripalimab (21-day cycle)

Onatasertib: RP2D PO once daily
Toripalimab: 240 mg IV inf every 3 weeks

5 cohorts (~10-12 patients each):

- Adv. HCC
- NET
- Adv. Gynaecologic tumors
- Adv. Solid tumors
- GBM

*Until disease progression or unacceptable toxicity
(Max. 2 years therapy with Toripalimab; Onatasertib monotherapy beyond 2 years)*

MTD, RP2D

Cervical Cancer Population – “TORCH-2” Target Lesion Waterfall Plot

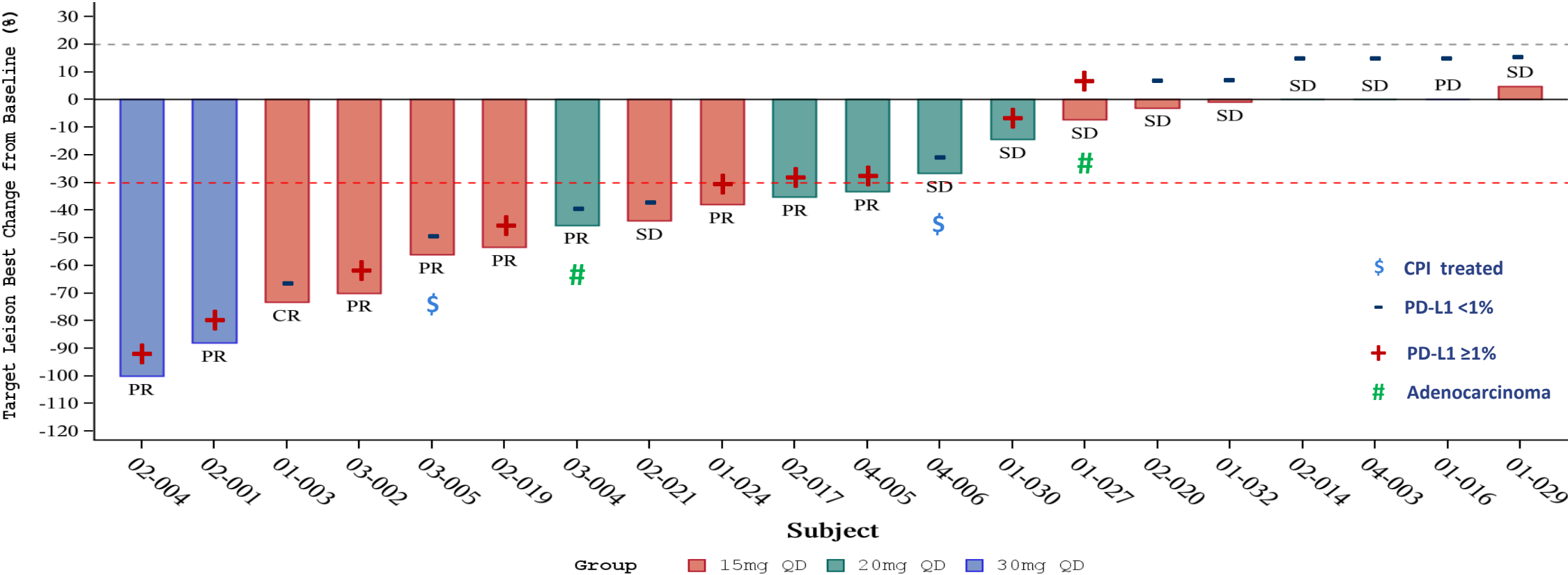
Deep Responses were Observed Regardless of PD-L1 Status



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Preliminary Efficacy (as of October 21st, 2022)

- 21 patients received treatment
- ORR is 52.4% (ITT,11/21)
 - Efficacy Evaluable Population: ORR 55% (11/20)
 - PD-L1+ Population: ORR 77.8% (7/9)



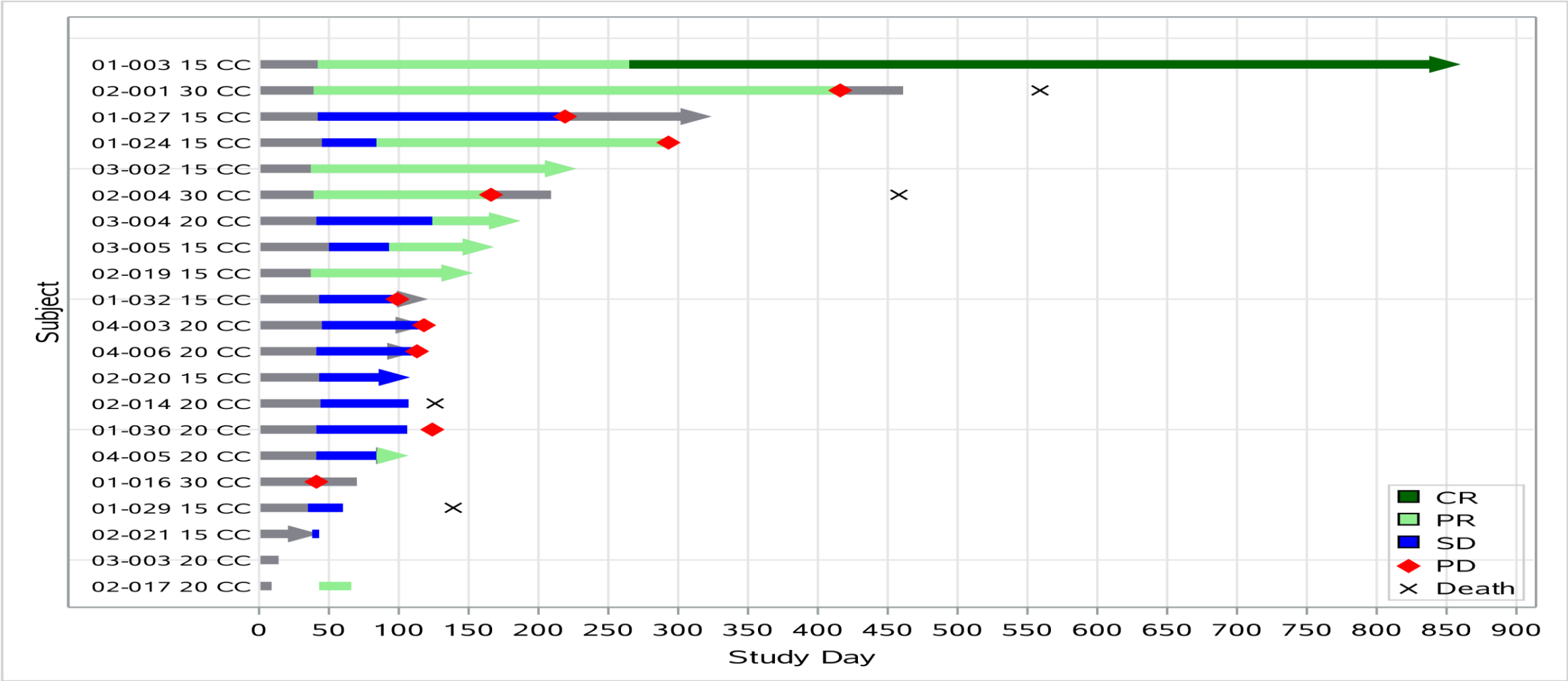
Cervical Cancer Population – “TORCH-2” Swimmer Plot

ATG-008 & Toripalimab Combination Resulted in Durable Responses



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- The Median Duration of Response (mDOR) is **9.7 months**
- The Longest Treatment Duration is **850 days (Ongoing CR)** of Patient 01-003, Currently on ATG-008 Single Agent Treatment



Cervical Cancer Population – “TORCH-2” Summary of Adverse Events



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Preliminary Results (as of October 21st, 2022)

- The most common grade ≥ 3 TEAEs included:
 - Lymphocyte count decreased (19.0%)
 - Rash (14.3%)
 - Hyperglycemia (9.5%)

Data Cut-off Date: 21 st October, 2022	15 mg QD (N=10) n (%)	20 mg QD (N=8) n (%)	30 mg QD (N=3) n (%)	Total (N=21) n (%)
Subjects with at least one TEAE	9 (90.0)	8 (100)	3 (100)	20 (100)
Serious TEAE	2 (20.0)	2 (25.0)	2 (66.7)	6 (28.6)
Grade 3 or 4 TEAE	6 (60.0)	6 (75.0)	3 (100)	15 (71.4)
TEAE Leading to Dose Modification	5 (50.0)	6 (75.0)	2 (66.7)	13 (61.9)
• TEAE leading to ATG-008 Dose Modification	5 (50.0)	6 (75.0)	2 (66.7)	13 (61.9)
• TEAE leading to Toripalimab Dose Modification	3 (30.0)	3 (37.5)	0	6 (28.6)
TEAE Leading to Dose Reduction	0	1 (12.5)	2 (66.7)	3 (14.3)
• TEAE leading to ATG-008 Dose Reduction	0	1 (12.5)	2 (66.7)	3 (14.3)
• TEAE leading to Toripalimab Dose Reduction	0	0	0	0
TEAE Leading to Dose Interruption	5 (50.0)	5 (62.5)	1 (33.3)	11 (52.4)
• TEAE leading to ATG-008 Dose Interruption	5 (50.0)	5 (62.5)	1 (33.3)	11 (52.4)
• TEAE leading to Toripalimab Dose Interruption	3 (30.0)	3 (37.5)	0	28.6
TEAE Leading to Treatment Discontinuation	0	1 (12.5)	0	1 (4.8)
TEAE Leading to Death	0	0	0	0

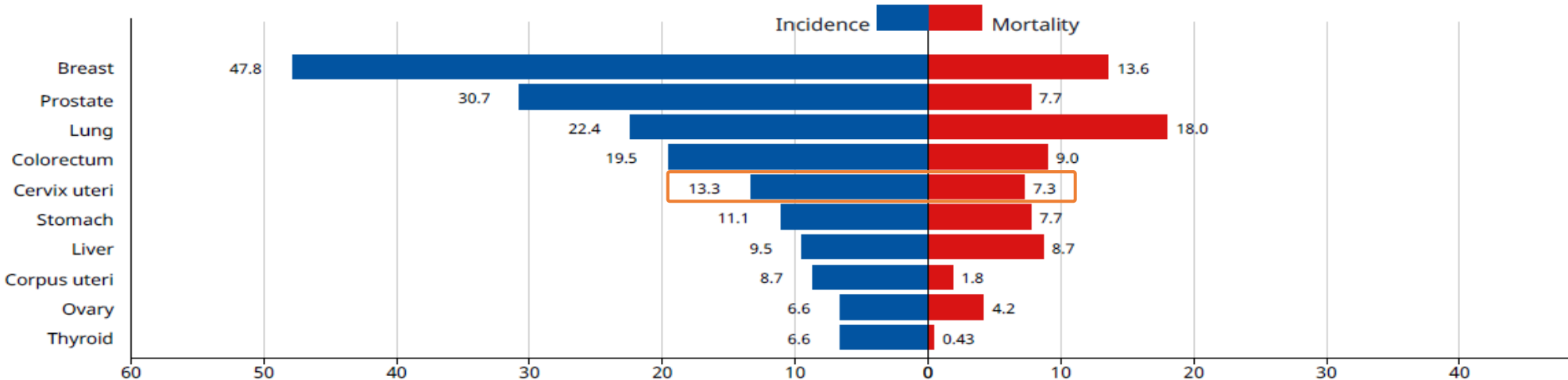
Cervical Cancer Disease Burden in 2020

- The number of cervical cancer **new cases in China** was **109,741**
- The **number of deaths** was **59,060**
- The **number of 5-year prevalence cases** was **297,278**



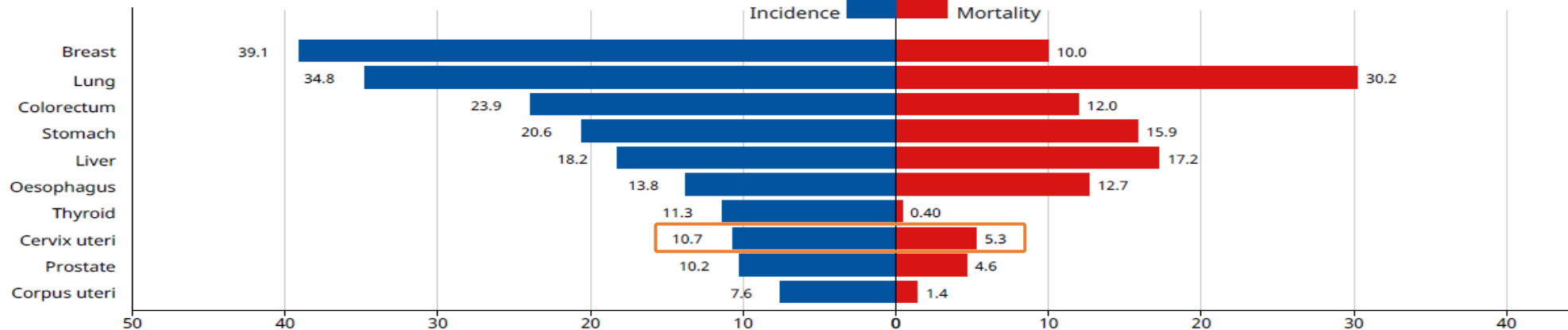
Global

Cervical cancer is a Top-10 Cancer Globally based on Age-standardized incidence and mortality rates



China

Cervical cancer is a Top-10 Cancer in China based on Age-standardized incidence and mortality rates



ATG-008 (Onatasertib) In Combination with Toripalimab

Potential Best-in-Class Treatment for 2L+ Cervical Cancer as Demonstrated in “TORCH-2”



ANTENGENE

	ATG 008 + Toripalimab (Data from “TORCH-2”)	Pembrolizumab (Global Standard of Care)	AK104 (Only CPI Approved by CDE)	Sintilimab + Anlotinib
Mechanism of Action (MoA)	mTORC 1/2i + PD-1 mAb	PD-1 mAb	PD-1/CTLA-4 BsAb	PD-1 mAb + VEGFRi
Number of Patients	21 (ITT)	98 (ITT)	100 (FAS, ITT 111)	39 (EE, ITT 42)
Prior Treatment Lines	≤2 (52.4%); ≥3 (47.6%)	≤2 (69.4%); ≥3 (30.6%)	≤2 (100%)	≤2 (78.6%); ≥3 (21.4%)
PD-L1	N, TPS≥1% (42.8%)	N, CPS≥1 (83.7%)	N	Y, CPS≥1 (100%)
ORR	52.4%; 77.8% (TPS≥1%)	12.2%	33%	59%
DCR	94.4%	30.6%	52%	94.9%
PFS (months)	5.45; 9.63 (15 mg cohort)	2.1	3.75	9.4
OS (months)	NE	9.4	17.5	NE
Response in CPI treated	1/2	N/A	N/A	N/A
Response in AdCa	1/2	1/5	NE	0/6

AdCa: Adenocarcinoma

Source: publications & primary research

Rationale to Explore ATG-008 (Onatasertib) in HBV+ Hepatocellular Carcinoma (HCC)



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Strong Rationale for the Initiation of TORCH Study

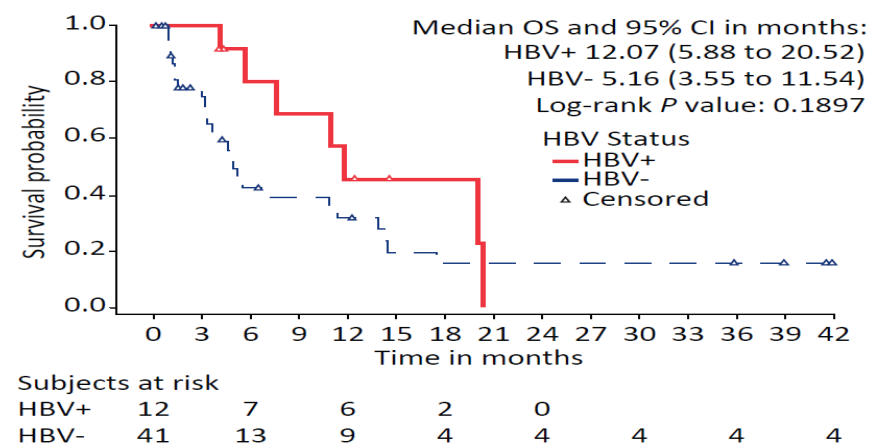
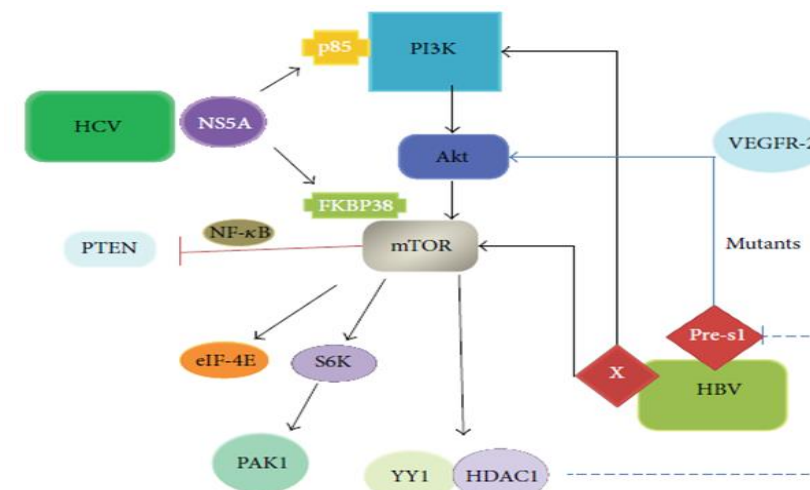
Huge Unmet Medical Need

- Hepatocellular Carcinoma (HCC) is the **second most common cause of death** from cancer in the world
- Chronic Hepatitis B Virus (HBV) infection now accounts for **80% of all newly diagnosed HCC in Asia**
- Hepatitis B virus (X protein) **up-regulates PI3K/mTOR signaling** which **increases cell proliferation and VEGF production**

Promising Clinical Data in the Previous Phase II CC-223-ST-001 Study

- Evaluated **53 subjects with HCC**, who has received at least one dose of ATG-008
 - **Median Overall Survival (mOS) in the HBV+ subgroup was 52.4 weeks**, while the mOS in the HBV- subgroup was 22.1 weeks

Source: Zhu et al, 2016; Andrew X et al, 2014; Internal data on file



ATG-008 “TORCH” Clinical Trial Design



ANTENGENE

An Open-label Phase II Trial of Dual TORC1/TORC2 Inhibitor ATG-008 (Onatasertib) in HBV+ Advanced Hepatocellular Carcinoma (HCC) Subjects Who Have Received At Least One Prior Line of Systemic Therapy

Location: Mainland China, South Korea, Taiwan

Key Eligibility Criteria:

- Advanced HCC with at least 1 prior systemic therapy
- HBV+ by serum
- No prior mTOR inhibitor

Dose Escalation

ATG-008 (Onatasertib) (28-day cycle)

N = 6

Onatasertib: 15 mg PO once daily

Until disease progression or unacceptable toxicity

ATG-008 (Onatasertib) (28-day cycle)

N = 24

Onatasertib: 30 mg PO once daily

Until disease progression or unacceptable toxicity

ATG-008 (Onatasertib) (28-day cycle)

N = 20

Onatasertib: 45 mg PO once daily

Until disease progression or unacceptable toxicity

ATG-008 (Onatasertib) (28-day cycle)

N = 20

Onatasertib: 20 mg PO twice daily

Until disease progression or unacceptable toxicity



Dose Expansion

N = ~110

ATG-008 (Onatasertib) (28-day cycle)

Onatasertib: 45 mg PO once daily

or

Onatasertib: 20 mg PO twice daily

Until disease progression or unacceptable toxicity

Primary endpoint: C_{max}, AUC, Safety, ORR; Dose Expansion: ORR
Secondary endpoints: OS, TTP, PFS, DCR, DOR, TTR, survival rate (6, 9, 12 months)

ATG-008-HCC-001
Sponsor: Antengene

AUC: area under the curve; DCR: disease control rate; DOR: duration of response; HBV: hepatitis B virus; HCC: hepatocellular carcinoma; ORR: overall response rate; OS: overall survival; PFS: progression free survival; TTP: time to progression; TTR: time to response

“TORCH” Safety Analysis – Treatment Emergent Adverse Events (TEAE) Overall Summary



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No Potential New Safety Signal that Warrants a Further Investigation

Grade 3-4 TEAEs with high rate ($\geq 5\%$) include:

- Rash (21.9%)
- Hyperglycemia (19.2%)
- Diarrhea (11%)
- Fatigue (9.6%)
- Pruritus (6.8%)

Details of 45mg cohort :

- Rash (22.2%)
- Hyperglycemia (16.7%)
- Diarrhea (16.7%)
- Stomatitis (16.7%)
- Decreased Appetite (11.1%)

Data Cut-off Date: 11 th July, 2022	15 mg QD (N=7) n (%)	30 mg QD (N=28) n (%)	20 mg BID (N=20) n (%)	45 mg QD (N=18) n (%)	Total (N=73) n (%)
Subjects with at least one TEAE	7 (100)	28 (100)	20 (100)	18 (100)	73 (100)
Serious TEAE	4 (57.1)	7 (25.0)	6 (30.0)	8 (44.4)	25 (34.2)
Grade 3 or 4 TEAE	7 (100)	25 (89.3)	15 (75.0)	16 (88.9)	63 (86.3)
TEAE Leading to Dose Modification	7 (100)	14 (50.0)	14 (70.0)	16 (88.9)	51 (69.9)
TEAE Leading to Dose Reduction	0	8 (28.6)	5 (25.0)	5 (27.8)	18 (24.7)
TEAE Leading to Dose Interruption	7 (100)	8 (28.6)	12 (60.0)	14 (77.8)	41 (56.2)
TEAE Leading to Treatment Discontinuation	1 (14.3)	7 (25.0)	5 (25.0)	4 (22.2)	17 (23.3)
TEAE Leading to Death	0	1 (3.6)	0	0	1 (1.4)

“TORCH” Efficacy Analysis – ORR, DCR, DOR, PFS & OS Overall Summary



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- ATG-008 (Onatasertib) **45 mg QD** demonstrated **single agent activity in advanced HBV+ Hepatocellular Carcinoma (HCC)**
 - **ORR is 16.7% (3/18)**
 - **mDOR is 4.3 months**
 - **DCR is 55.6%**
 - **Longer mPFS (5.3 months)** than the whole population (3.0 months)
 - OS was not evaluable in the 45 mg QD cohort; **OS of the whole ITT population is 13.4 months**
- **15 out of 18 patients** exposed to **prior PD-1/PD-L1 treatment**
 - **2 checkpoint inhibitor-treated patients** achieved **PR**

Data Cut-off Date: 11 th July, 2022	15 mg QD (N=7) n (%)	30 mg QD (N=28) n (%)	20 mg BID (N=20) n (%)	45 mg QD (N=18) n (%)
Partial Response (PR)	0	0	0	3 (16.67)
Stable Disease (SD)	3 (42.86)	16 (57.14)	11 (55)	7 (38.89)
Progressive Disease (PD)	4 (57.14)	11 (39.29)	5 (25)	6 (33.33)
Non Evaluable (NE)	0	1 (3.57)	4 (20)	2 (11.11)
Overall Response Rate (ORR)	0 (0)	0 (0)	0 (0)	3 (16.67)
ORR 95% CI	(0, 41.0)	(0, 12.3)	(0, 16.8)	(3.6, 41.4)
Disease Control Rate (DCR)	3 (42.86)	16 (57.14)	11 (55)	10 (55.56)
DCR 95% CI	(9.9, 81.6)	(37.2, 75.5)	(31.5, 76.9)	(30.8, 78.5)

Key Takeaways of ATG-008 (Onatasertib) Clinical Programs



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Encouraging initial data observed in TORCH-2 study of ATG-008 in combination with Toripalimab in treatment of relapsed or metastatic cervical cancer subgroup-Including favorable tolerability with an **ORR of 52.4% (11/21)**, regardless of PD-L1 status



ATG-008 demonstrated **single agent activity in 2L+ HBV positive hepatocellular carcinoma**



The **safety, efficacy and PK profiles** of ATG-008 monotherapy are in line with prior results, which warrants further combination development



Pre-IND consultation with CDE planned for a **pivotal study** that will define the regulatory path for ATG-008, with advanced cervical cancer as the lead indication



The **TORCH-2 trial** is still enrolling patients to further evaluate the role of ATG-008 & anti-PD-1 combination in patients who have failed prior CPI treatments



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XPO1 INHIBITOR

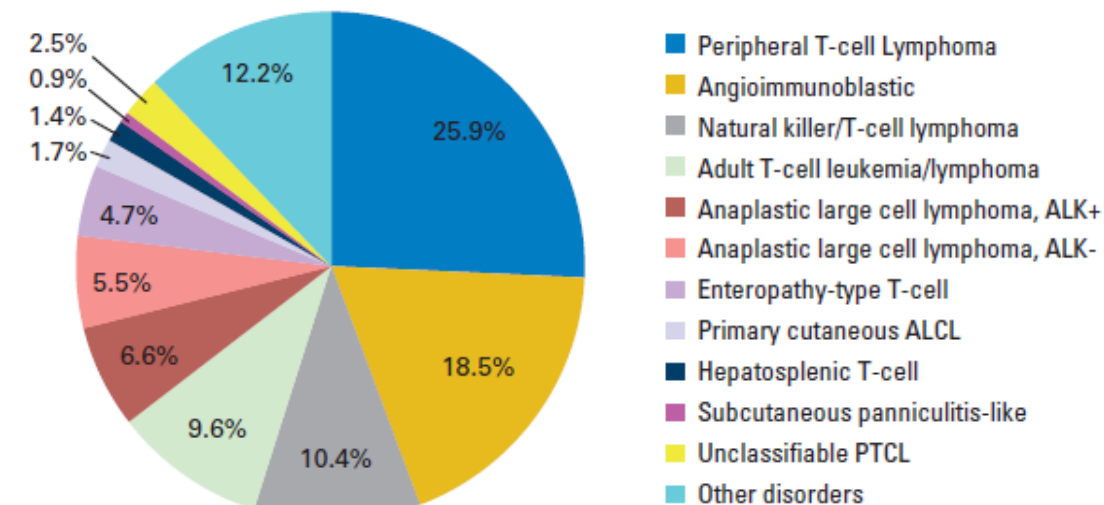


T-cell and NK-cell Lymphoma – An Endemic Disease in Asia that is Under-served with Current Treatments

Geographic Variation Lymphoma Highly Prevalent in Asia

Table 1. Major Lymphoma Subtypes by Geographic Region

Subtype	%		
	North America	Europe	Asia
PTCL-NOS	34.4	34.3	22.4
Angioimmunoblastic	16.0	28.7	17.9
ALCL, ALK positive	16.0	6.4	3.2
ALCL, ALK negative	7.8	9.4	2.6
NKTCL	5.1	4.3	22.4
ATLL	2.0	1.0	25.0
Enteropathy-type	5.8	9.1	1.9
Hepatosplenic	3.0	2.3	0.2
Primary cutaneous ALCL	5.4	0.8	0.7
Subcutaneous panniculitis-like	1.3	0.5	1.3
Unclassifiable T-cell	2.3	3.3	2.4



Current Treatment Paradigm

- No standard of care treatment for **relapsed/refractory disease**
- **Poor outcomes after first relapse**, with **limited improvement** in the past decade

Disease	ORR	2 nd PFS (months)	Overall Survival (OS) After 1 st Relapse/Progression (months)
R/R PTCL	25-30%	3.7	6.5
R/R ENKTL	30-35%	4.1	6.4

ATG-010 “TOUCH” Clinical Trial Design and Status Updates

A Phase I/II, Open-label, Multi-center Study to Evaluate the Safety and Efficacy of ATG-010 (Selinexor) Combined With Chemotherapy or Tislelizumab in R/R Mature T and NK Cell Lymphoma (*Common Subtype of NHL in Asia*)

Location: Mainland China

Key Eligibility Criteria:

- R/R Peripheral T-cell Lymphoma or T/NK-cell Lymphoma
- At least 1 prior standard treatment

V5 sIND approval, August 2022
Arm C FPI, December 2022

Arm A

Terminated

Selinexor + ICE

Arm B

N = 46

Selinexor + GemOx

Arm C

N = 51

Selinexor + Tislelizumab

Dose Escalation (N = 12)

Dose Expansion (N = 39)

Until disease progression or unacceptable toxicity



Maintenance Therapy with Selinexor

Primary endpoint: Safety, MTD/RP2D (Arm C), ORR
Secondary endpoints: DOR, TTR, DOR, PFS, OS, PK (Arm C)

ATG-010-T/NK-001
Sponsor: Antengene

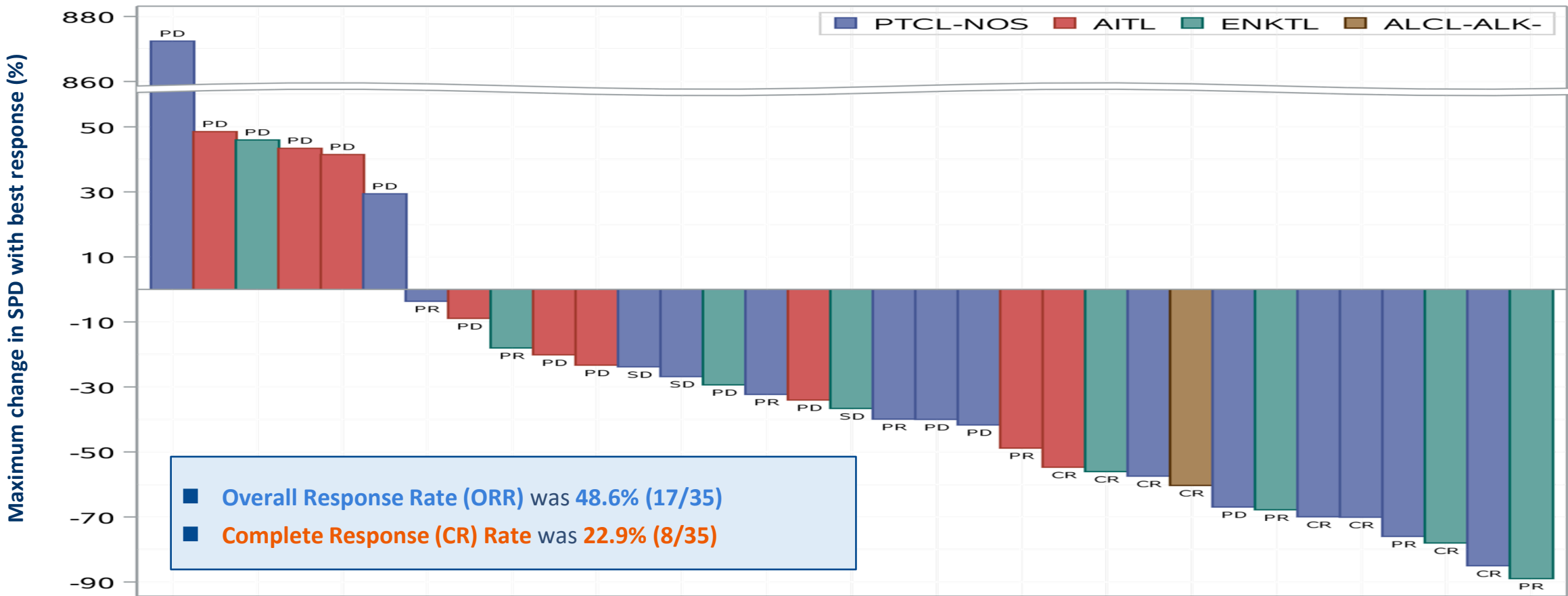
ORR: overall response rate; DOR: duration of response; OS: overall survival; PFS: progression free survival; ICE: ifosfamide, carboplatin, etoposide; GEMOX: gemcitabine, oxaliplatin

“TOUCH”: Efficacy of Arm B – 2022 ASH Abstract #2916

Impressive Early Efficacy Signal



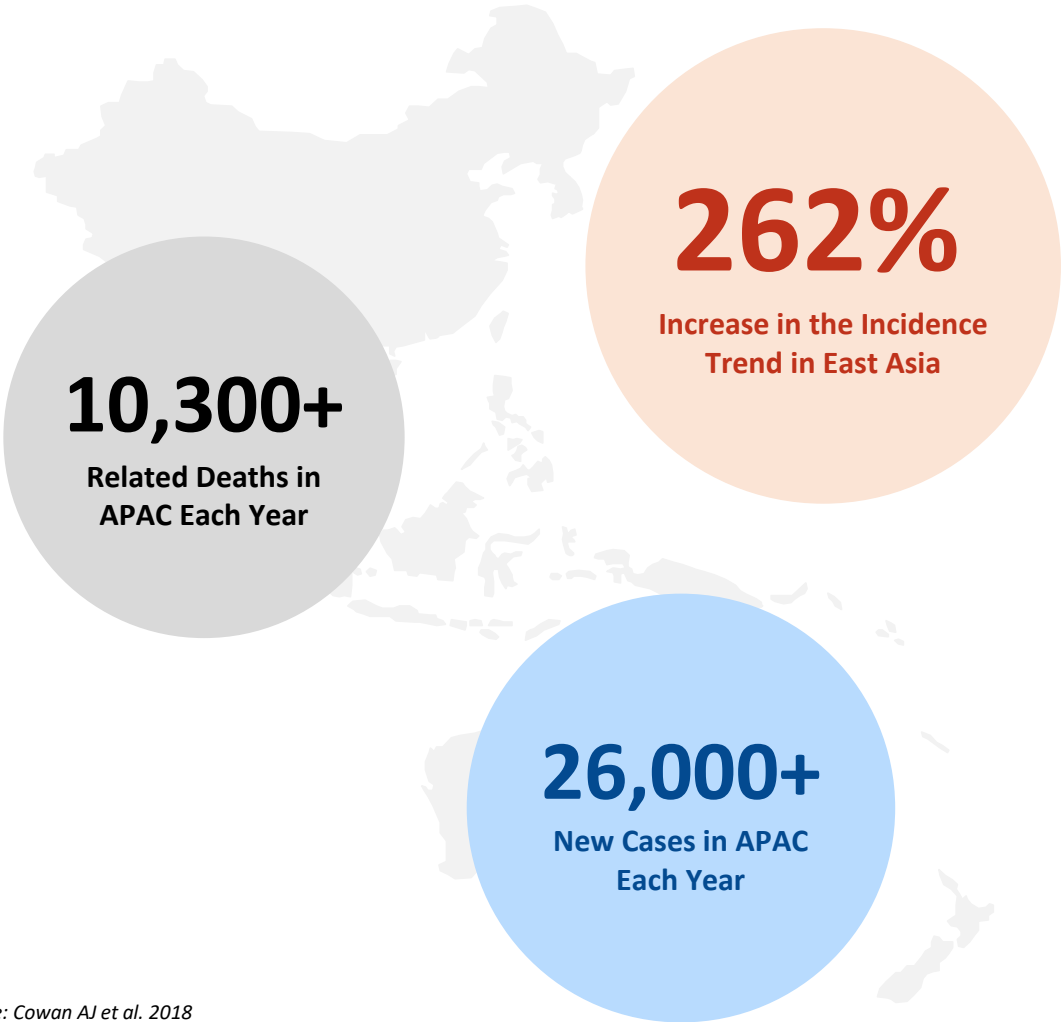
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	PTCL-NOS (n=15)	ENKTL (n=10)	AITL (n=9)	ALCL(n=1)	All Patients (N=35)
Median PFS (95% CI), months	4.4 (1.51, 9.59)	4.7 (1.22, NE)	1.5 (0.59, NE)	3.2 (NE, NE)	2.9 (1.51, 4.67)
Median OS (95% CI), months	NE (5.55, NE)	14.1 (8.28, NE)	NE (2.2, NE)	NE (NE, NE)	NE (11.47, NE)

Opportunity Continues to Exist in Multiple Myeloma

Multiple Myeloma is the Second Most Common Hematological Malignancy



Current Treatment Paradigm



Multiple Myeloma Remains Incurable



Patients with Multiple Myeloma Will Eventually Experience Relapse or Become Refractory to Existing Treatments



Fewer Treatment Options are Available in APAC as Compared to the U.S.



There is a High Unmet Medical Need for Treatments with Novel Mechanisms of Action in R/R Multiple Myeloma

ATG-010 “BENCH” Clinical Trial Design and Status Updates



ANTENGENE

A Pivotal Phase III Confirmatory Study (China Bridging Study for BOSTON) Evaluating the Safety and Efficacy of ATG-010 (Selinexor), Bortezomib, and Dexamethasone (SVd) Versus Bortezomib and Dexamethasone (Vd) in Patients with Relapsed or Refractory Multiple Myeloma (R/R MM)

Location: Mainland China

Key Eligibility Criteria:

N = 150

- R/R Multiple Myeloma with 1-3 prior therapies

First Patient In (FPI): July, 2021
Positive 1st DSMB review in August 2022

Randomization
2:1

ATG-010 (Selinexor) + Bortezomib + Dexamethasone (SVd)
(35-day cycle)

Selinexor: 100 mg PO on days 1, 8, 15, 22, 29
Bortezomib: 1.3mg/m² SC on days 1, 8, 15, 22
Dexamethasone: 20 mg PO on days 1, 2, 8, 9, 15, 16, 22, 23, 29, 30

Until PD

*Crossover at PD

Bortezomib + Dexamethasone (Vd)

Cycle 1-8 (21-day cycle)

Bortezomib: 1.3mg/m² SC on days 1, 4, 8, 11
Dexamethasone: 20 mg PO on days 1, 2, 4, 5, 8, 9, 11, 12

Cycle 9+ (35-day cycle)

Bortezomib: 1.3mg/m² SC on days 1, 8, 15, 22
Dexamethasone: 20 mg PO on days 1, 2, 8, 9, 15, 16, 22, 23, 29, 30

Until PD*

Primary endpoint: PFS

Secondary endpoints: ORR, OS, DOR, Grade ≥2 Peripheral Neuropathy

ATG-010-MM-002
Sponsor: Antengene

High Unmet Needs Provide An Opportunity in Diffuse Large B-cell Lymphoma

Diffuse Large B-cell Lymphoma is the Most Common and Aggressive Subtype of Non Hodgkin Lymphoma in Adults

Current Treatment Paradigm



R-CHOP is only curative in ~50-60% of front line patients



Patients in specific subgroups such as double/triple hit lymphoma and double expressor lymphoma face poor outcomes and limited treatment options



No standard of care for R/R diffuse large B-cell lymphoma in China



Very few novel treatments approved in China
(e.g., Axicabtagene Ciloleucel, Relmacabtagene Autoleucel)

~40%

Non Hodgkin Lymphoma
in China

30,000+

New Cases in China
Each Year

ATG-010 “SEARCH” Clinical Trial Design and Status Updates



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A Pivotal Phase II Confirmatory Study (China Bridging Study for SADAL) Evaluating the Safety and Efficacy of ATG-010 (Selinexor) in Patients with Relapsed or Refractory Diffuse Large B-cell Lymphoma (R/R DLBCL)

Location: Mainland China

Key Eligibility Criteria:

N = 60

- Previously treated de novo or transformed DLBCL
- 2-5 prior therapies

Currently in pre-sNDA process based on efficacy and safety evaluation
sNDA in 1H 2023

ATG-010 (Selinexor)

Selinexor: 60 mg PO twice weekly

Until disease progression or unacceptable toxicity

≥PR



ATG-010 (Selinexor)

Selinexor: 60 mg PO once weekly

Until disease progression or unacceptable toxicity

Primary endpoint: ORR

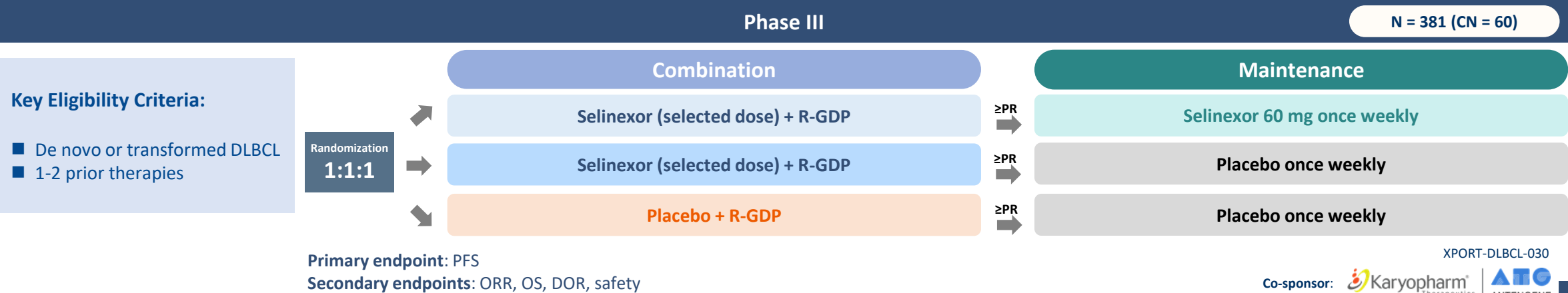
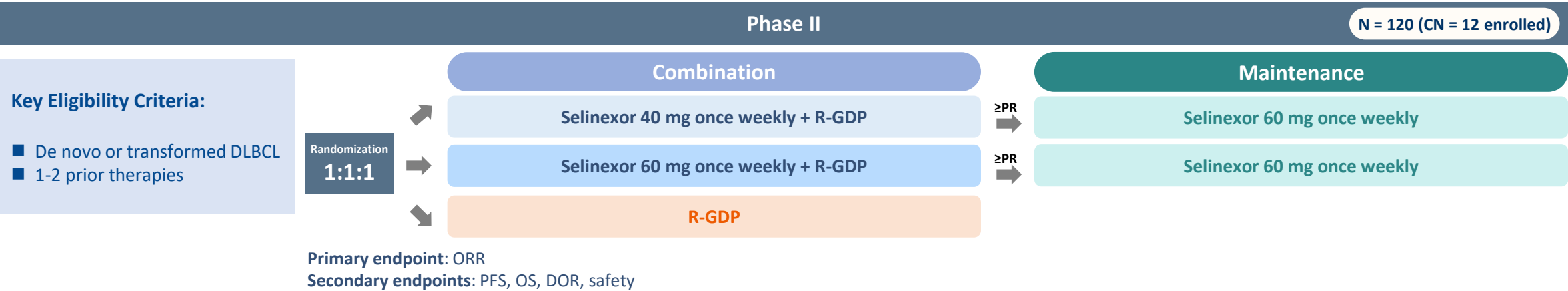
Secondary endpoints: DOR, OS, PFS

ATG-010-DLBCL-001
Sponsor: Antengene

ATG-010 “XPORT-DLBCL-030” Clinical Trial Design

A Global Pivotal Phase II/III Confirmatory Study of Rituximab-Gemcitabine-Dexamethasone-Platinum (R-GDP) With or Without ATG-010 (Selinexor) in Patients with Relapsed or Refractory Diffuse Large B-cell Lymphoma (R/R DLBCL)

Location:
Mainland China (Antengene), Rest of the World (Karyopharm)



CN: China, ORR: overall response rate; DOR: duration of response; OS: overall survival; PFS: progression free survival; QW: once weekly; R-GDP: rituximab, gemcitabine, dexamethasone, platinum; R/R: relapsed or refractory

ATG-010 “MATCH” Clinical Trial Design and Status Updates



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Rationale

- Unmet medical need in R/R DLBCL, especially in double-hit/triple-hit, double expresser, or transformed DLBCL
- Preclinical data showed synergistic effects of ATG-010 (Selinexor) + ATG-008 (Onatasertib), both of which are molecules from Antengene’s pipeline

An Open-label Phase Ib Study of ATG-010 (Selinexor) Plus ATG-008 (Onatasertib) in Patients with Relapsed or Refractory Diffuse Large B-cell Lymphoma (R/R DLBCL)

Location: Mainland China

Key Eligibility Criteria:

N = 88

- R/R Diffuse Large B-cell Lymphoma
- 2-5 prior regimens (1-5 prior therapies for DH/TH, DE or transformed DLBCL)

Recruitment: On-going
Currently in dose escalation phase

Dose Escalation

ATG-010 + ATG-008 (28-day cycle)

Selinexor: 60 mg PO once weekly
Onatasertib: 15 mg PO once daily

Until disease progression or unacceptable toxicity

“BOIN design” dose escalation

Dose Expansion

ATG-010 + ATG-008 (28-day cycle)

Selinexor: MTD/RP2D PO
Onatasertib: MTD/RP2D PO daily

Until disease progression or unacceptable toxicity

“Simon Two-stage” dose expansion

MTD,
RP2D

Primary endpoint: MTD, RP2D, Safety
Secondary endpoints: ORR, PFS, DOR, TTP, OS, PK

ATG-008&010-DLBCL-001
Sponsor: Antengene

ATG-010 “SWATCH” Clinical Trial Design and Status Updates

Rationale

- Limited therapies for elderly or ASCT-ineligible patients with R/R DLBCL and indolent B-NHL
- Selinexor with accelerated approval by FDA, and R2 showed preliminary efficacy in R/R DLBCL and indolent B-NHL

An Open Label Phase I/II Study of ATG-010 (Selinexor) Plus R2 (Rituximab + Lenalidomide) in Patients with B-cell Non-Hodgkin Lymphoma

Location: Mainland China

Key Eligibility Criteria:

N = 84

- R/R Diffuse Large B-cell Lymphoma, R/R indolent Non-Hodgkin Lymphoma (dose expansion)
- At least 1 prior regimen
- Not eligible for HDC/ASCT

Recruitment: On-going
Currently is on dose escalation phase

Dose Escalation

ATG-010 (Selinexor) + Rituximab + Lenalidomide (28-day cycle)

Starting Dose level

Selinexor: 40 mg PO on Day 1, 8, 15
Rituximab: 375 mg/m² IV on Day 1, Cycle 1-6
Lenalidomide: 25 mg PO from Day 1-10

Until disease progression or unacceptable toxicity

Dose Expansion

ATG-010 (Selinexor) + Rituximab + Lenalidomide (28-day cycle)

2 cohorts:
1) R/R DLBCL
2) R/R iNHL

Until disease progression or unacceptable toxicity

MTD,
RP2D

Primary endpoint: MTD, RP2D, Safety
Secondary endpoints: ORR, PFS, DOR, TTP, OS

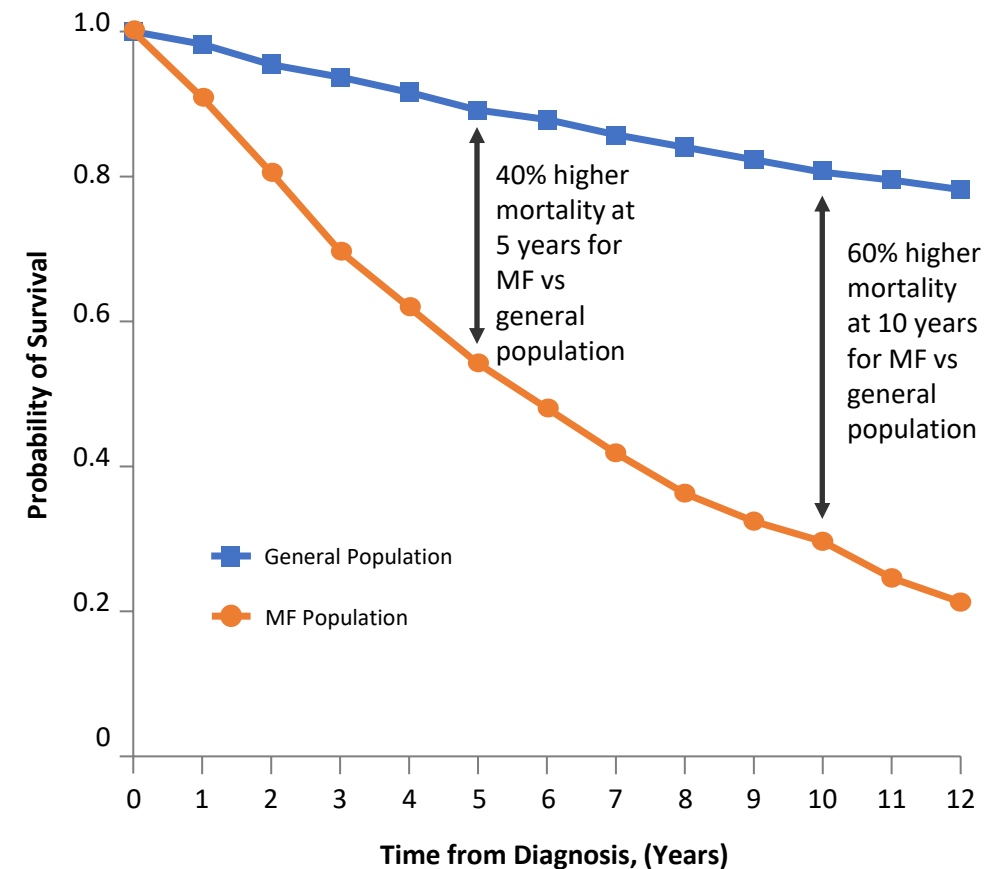
ATG-010-B-NHL-002
Sponsor: Antengene

Patients with Myelofibrosis Have a Considerably Higher Risk of Death

There is an Unmet Medical Need in Myelofibrosis

- Myelofibrosis (MF) is a **myeloproliferative neoplasm that develops de novo** (primary myelofibrosis [PMF]) **or progress from antecedent polycythemia vera** (post-PV-MF) **or essential thrombocythemia** (post-ET-MF)
- **JAK2 is present** in almost all persons with post-PV-MF and about 50% of persons with post-ET-MF and PMF¹⁻³
- MF is **relatively rare but incidence estimates vary widely**
 - Crude incidence: 0.22–0.99 per 100,000 per year⁴
- Allogeneic Hematopoietic Stem Cell Transplant (Allo-HSCT) is regarded as the only curative therapy for myelofibrosis. **JAK inhibitors and other medicines could only relieve the symptoms**
- Clinical features include **progressive anemia and/or splenomegaly and constitutional symptoms**
 - In 8–23% of patients, **MF transforms to Acute Myeloid Leukemia (AML)** within the first 10 years of diagnosis⁶⁻⁷

Survival Rates in Patients with Myelofibrosis⁵



ATG-010 “XPORT-MF-035” Clinical Trial Design, Status Updates and Plans for the “XPORT-MF-034” Study



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A Global Pivotal Phase II Study of to Evaluate the Efficacy of ATG-010 (Selinexor) Versus Treatment of Physician’s Choice in Participants with Previously Treated Myelofibrosis

Location:
Mainland China (Antengene),
Rest of the World (Karyopharm)

N = 112 (CN = 18)

Key Eligibility Criteria:

- Primary Myelofibrosis (MF) or post-essential thrombocythemia (post-ET) or post-polycythemia vera (post-PV) MF
- Previous treatment with JAK inhibitors for at least 6 months
- Relapsed, refractory or intolerant to JAK inhibitors

First Patient In (FPI) China: August, 2022

Randomization
1:1

ATG-010 (Selinexor)

Selinexor:

80 mg PO once weekly for 2 cycles
60 mg PO once weekly in following cycles

Physician’s Choice

May include ruxolitinib retreatment, fedratinib, chemotherapy, anagrelide, corticosteroid, hematopoietic growth factor, androgen, IFN, and may include supportive care only

Primary endpoint: Rate of SVR35 by IRC

Secondary endpoints: Rate of total symptom score reduction of 50% (TSS50) in the myelofibrosis symptom assessment form (MFSAF); rate of spleen volume reduction of $\geq 25\%$ (SVR25); OS and ORR; anemia response, duration of SVR35, TSS50, and SVR25, AEs, AUC and Cmax

“XPORT-MF-034” Clinical Trial Showed Encouraging Preliminary Data Across Key Efficacy Endpoints with Updated Results To Be Presented at ASH 2022



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A Global Phase I Multicenter Open-label Study to Evaluate the Safety and Efficacy of Selinexor Plus Ruxolitinib in Treatment Naïve Myelofibrosis Patients



Location: United States (Karyopharm)

Key Eligibility Criteria:

- Patients with treatment-naïve myelofibrosis

Dose Escalation

Selinexor + Ruxolitinib

N = 3

Dose Level 1:
Selinexor: 40 mg once weekly
Ruxolitinib: 15/20 mg twice daily



Selinexor + Ruxolitinib

N = 3

Dose Level 2:
Selinexor: 60 mg once weekly
Ruxolitinib: 15/20 mg twice daily

Dose Expansion

N = 18

Selinexor + Ruxolitinib

Selinexor: 40/60 mg once weekly
Ruxolitinib: 15/20 mg twice daily

Primary endpoint: MTD, RP2D, AEs

Secondary endpoints: SVR35, TSS50, OS, anemia response, AEs, ORR, PK analysis

Spleen Responses at 12 & 24 Weeks

- **79%** of evaluable patients (11/14) achieved SVR35 at week 12
- **86%** of evaluable patients (6/7) achieved SVR35 at week 24

Rapid Reduction in Total Symptom Scores (TSS)

- **69%** of evaluable patients (9/13) achieved TSS50 at week 12

Positive Impacts on Hemoglobin Levels

- **65%** of patients (11/17) maintained stable hemoglobin (+ 2g/dL) or improved hemoglobin level (>2g/dL, increase) at last follow up

Safety and Tolerability

- Most common TEAE⁶ (n=19): Nausea (58%), anemia (42%), vomiting (42%), majority Grade 1-2
- Most common Grade ≥ 3 TEAEs: thrombocytopenia (26%) and anemia (21%)

AE: adverse event; MTD, maximum tolerated dose; ORR: overall response rate; OS: overall survival; PK: pharmacokinetics; RP2D: recommended phase 2 dose; SVR35: spleen volume reduction of at least 35%; TSS50: total symptom score reduction $\geq 50\%$.

Source: Karyopharm Investor Presentation dated November 3rd, 2022

Highlights of ATG-010 (Selinexor) Clinical Programs



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Multiple Myeloma

- Phase III “BENCH” bridging study evaluating ATG-010 (selinexor) in combination with bortezomib and dexamethasone is well on track

Lymphomas

- **T and NK-cell Lymphoma**
 - Selinexor plus GemOx regimen demonstrated favorable efficacy and a manageable safety profile in Phase I/II “TOUCH” study
 - Cohort of selinexor plus anti-PD-1 antibody tislelizumab in Phase I/II “TOUCH” study will commence in December 2022
- **Diffuse Large B-cell Lymphoma (DLBCL)**
 - Selinexor monotherapy for R/R DLBCL is in pre-sNDA submission process in Mainland China
 - Selinexor in combination with R-GDP in 2L+ DLBCL is potentially proceeding to Phase III pivotal stage
- **B-cell Non-Hodgkin’s Lymphoma (B-NHL)**
 - Innovative combinations with selinexor to explore the potential of SINE in R/R B-NHL has been initiated

Myelofibrosis

- Starting potential pivotal programs with selinexor in myelofibrosis



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EARLY CLINICAL DEVELOPMENT

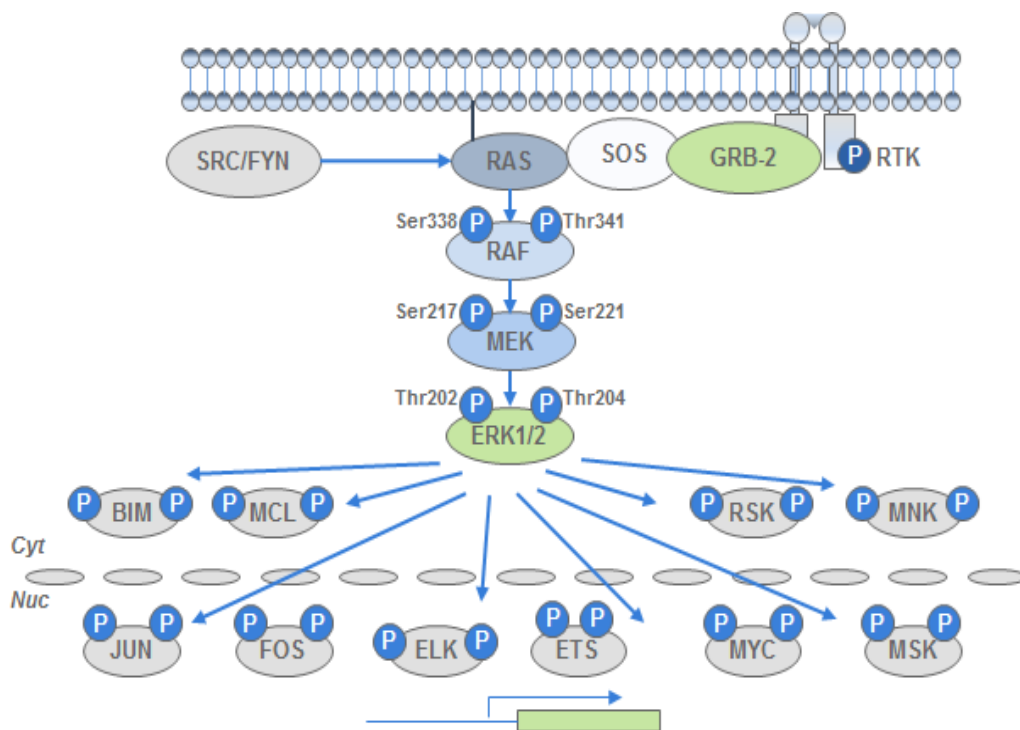
ATG-017 (Tizaterkib): Potentially Best-in-Class ERK1/2 Inhibitor



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Summary of ATG-017 (Tizaterkib)

- ERK1/2: RAS/MAPK signaling pathway drives cell survival and proliferation; dysfunction in the signaling pathway is a major trigger for the development of most cancer types



Best-in-Class Potential

- **Potent and selective small molecule** extracellular signal-regulated kinases 1 and 2 (ERK1/2) inhibitor with **best-in-class potential**

Leading in Clinical Development

- First-in-human Phase I trial investigating **safety and preliminary efficacy** among patients with solid tumors and hematological malignancies
- Currently in the **6th cohort** of monotherapy continuous dosing in solid tumors of the Phase I “ERASER” trial
- Preliminary efficacy observed in current monotherapy dose escalation study
- Combo cohort with Nivolumab planned for early 2023

Broad Therapeutic Potential in Cancer

- Great clinical potential as a monotherapy or combination in multiple solid tumors and hematological malignancies that harbor activating alterations in the RAS-MAPK pathway
 - E.g. RASm NSCLC, Pancreatic, CRC, and Melanoma

Source: F Liu et al. Acta Pharmaceutica Sinica B2018; 8(4); 552-652. Targeting ERK, an Achilles’ Heel of the MAPK pathway, in cancer therapy

Note: RAS= renin-angiotensin system, SOS=son of sevenless; GRB-2=growth factor receptor bound protein 2; RTK=receptor tyrosine kinase; RAF=renin-angiotensin system; MEK=MAPK/ERK kinase; MRK=mantle cell lymphoma; RSK=ribosomal S6 kinase; MNK=MAPK-interacting kinase; MSK=mitogen-activated and stress-activated protein kinase.

ATG-017 (Tizaterkib) Has Best-In-Class Potential



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- Comparable in vivo efficacy; dual IoC and PoA activity with high residency time at the target
- Demonstrates regression at 50 mg/kg QD or 15 mg/kg BID
- Effective at a relatively lower dose level

Dimensions of Comparison		ATG-017 Tizaterkib	ERAS-007	BVD523 Ulixertinib	LY3214996 Temuterkib	ASTX029
Company		Antengene	Erasca	BioMed Valley	Eli Lilly	Astex
Molecular Mechanism of Action		IoC + PoA	IoC	IoC	IoC + PoA (tbc)	IoC + PoA
Binding Kinetics/ Potency Indicators	ERK1/2 Enzyme Assay IC ₅₀ (nM)	- / 0.7	2/2	- / <0.3	5 / 5	2.7-3 / -
	A375 Cell pRSK/pERK IC ₅₀ (μM)	0.006 / 0.002	0.007/ NA	0.16 / 3	0.32 / NA	~0.003/ ~0.1
	Cell Proliferation Calu 6/A375 GI ₅₀ (μM)	0.2 / 0.06	0.007/ 0.007	0.5 / 0.19	1.1 / NA	0.06/ <0.01
	SPR/T _{1/2} (Non-phosphorylated/ Phosphorylated ERK)	193 / 265 mins	225 mins	2.8 / 26 mins	2.44 / 10.2 mins	NA
In Vivo Efficacy	Calu6 Regression Dose (mg/kg)	50 QD	NA	50 QD	NA	75 QD
	A375 Regression Dose (mg/kg)	15 BID	30 BID	NA	NA	75 QD

IoC = Inhibitor of catalysis; PoA = Prevention of Activation (as defined by A375 cell mode of action assay)

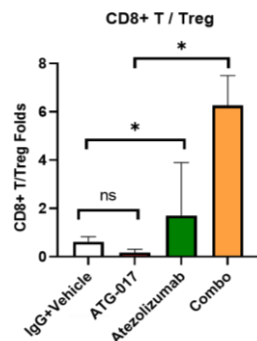
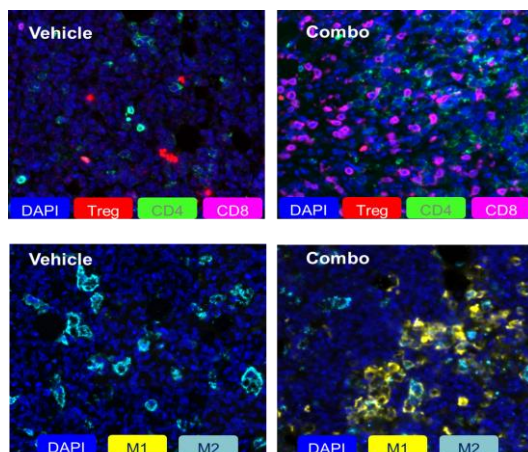
ATG-017 (Tizaterkib) Has Broad Combinational Potential With Various IO Agents and Target Therapies



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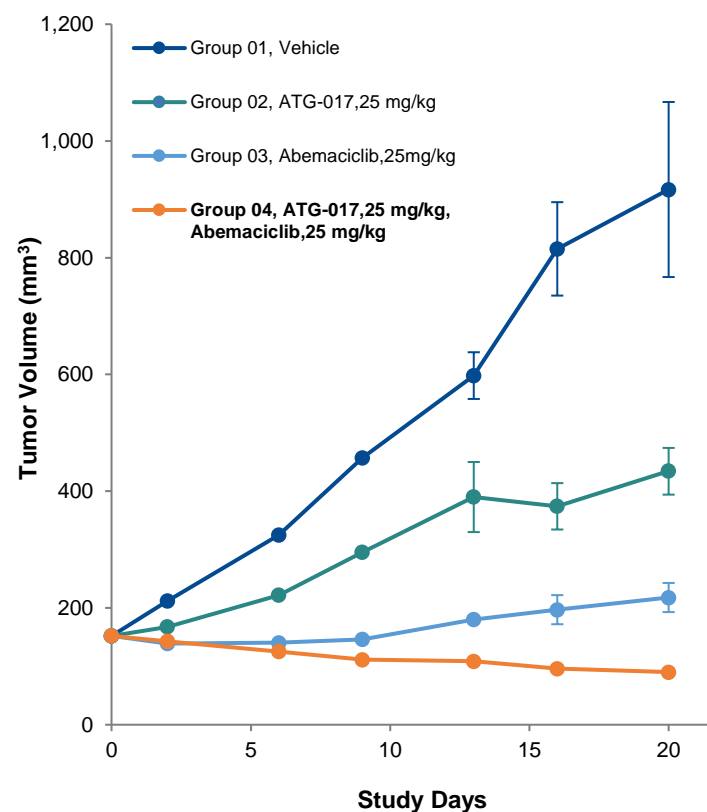
- ATG-017 showed in vivo synergism with inhibitors of MEK, EGFR, CDK4/6 and KRAS G12C
- ATG-017 modulates the tumor microenvironment and demonstrated synergism with immune checkpoint inhibitor
- Clinical trials evaluating ATG-017 in combination with other agents are being developed

In Vivo Synergy with Anti-PD-L1 in EL4 Syngeneic T cell Lymphoma CDX

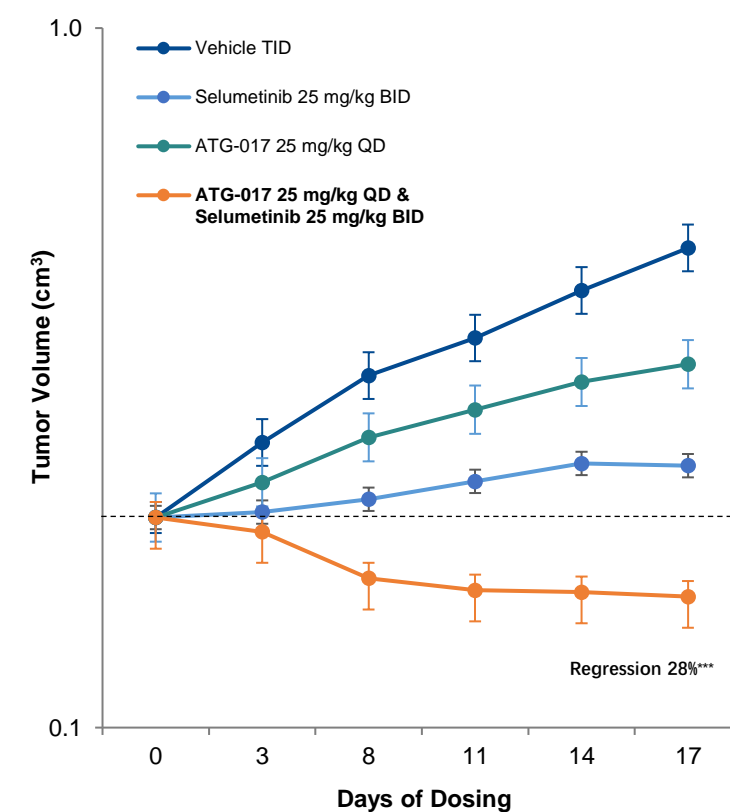


Source: SITC 2021

In Vivo Synergy with CDK4/6 Inhibitor in NCI-H358 NSCLC CDX



In Vivo Synergy with MEK Inhibitor in A549 (KRAS^{G12S}) NSCLC CDX

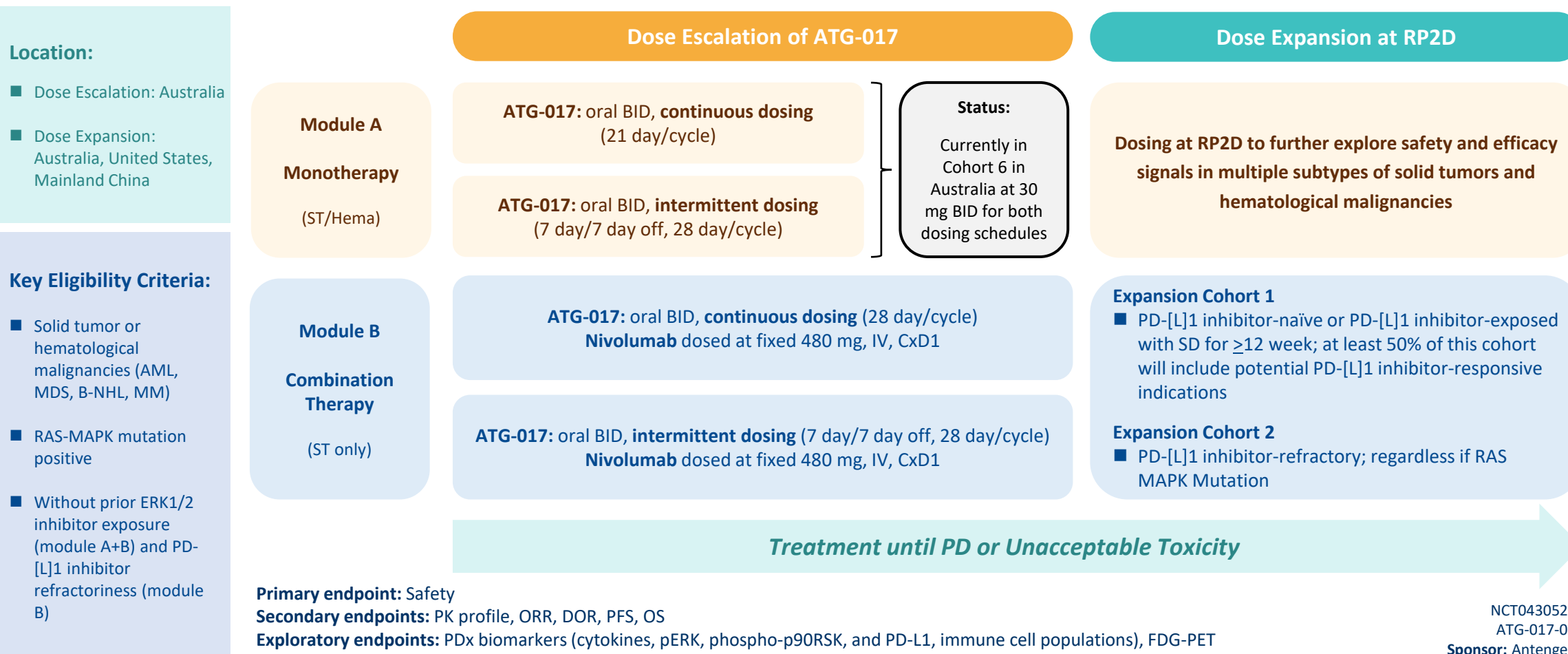


ATG-017 “ERASER” Clinical Trial Design and Status Updates



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Phase I, Open-Label, Multi-Center Dose Finding Study to Investigate the Safety, Pharmacokinetics, and Preliminary Efficacy of ATG-017 Monotherapy or Combination Therapy with Nivolumab in Patients with Advanced Solid Tumors and Hematological Malignancies



NCT04305249
ATG-017-001
Sponsor: Antengene



Currently in the 6th cohort in solid tumors of the Phase I ERASER trial

- In the process of MTD determination with continuous dosing
- Starting to exploring the intermittent dosing schedule (7 day on/7day off, 28-day cycle)



Efficacy signal observed in ATG-017 monotherapy at current dose level of 30 mg BID

ATG-101: Novel PD-L1/4-1BB Bispecific Antibody with Best-in-Class Potential

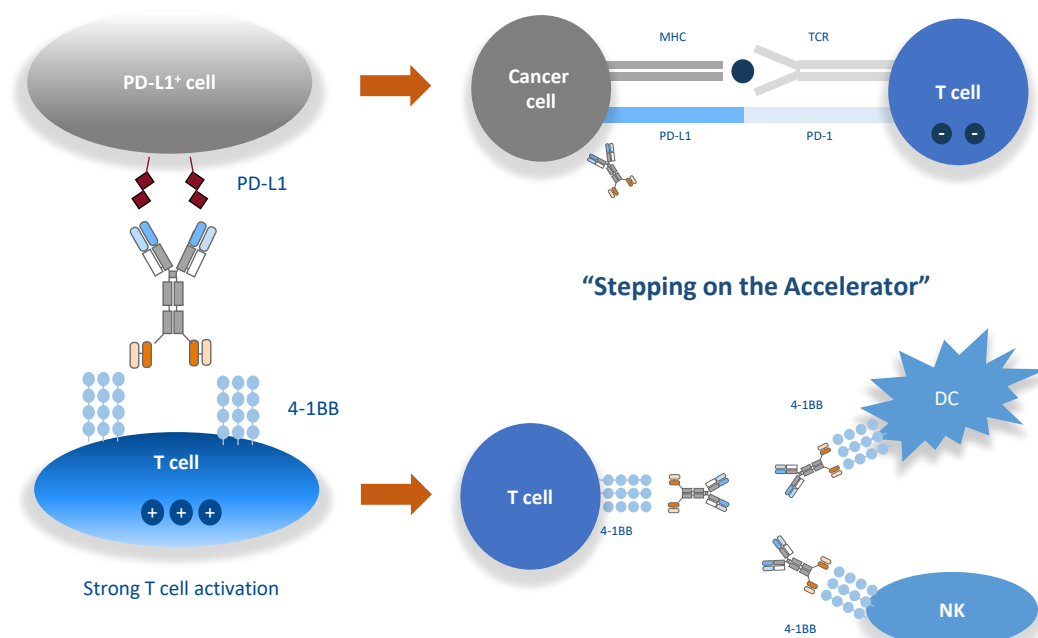


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Summary of ATG-101

- Clinical stage bispecific antibody with **best-in-class potential**
- Received **orphan drug designation** from the US FDA for patients with pancreatic cancer

Complementary Mechanism of PD-L1/4-1BB



Excellent Safety Profile

- High affinity of PD-L1 and conditional activation of 4-1BB results in 4-1BB agonist activity only when crosslinked by PD-L1-positive tumor cells, **reducing risk of 4-1BB related liver toxicity**
- **No liver toxicity observed** in GLP toxicology study in cynomolgus monkeys with **dose up to 100 mg/kg**

Broad Therapeutic Potential in Cancer

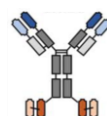
- Demonstrated **potent in vivo efficacy in anti-PD-1/PD-L1 resistant and relapsed** mouse tumor models
- Activates exhausted T cells in vitro, suggesting a potential in **reversing T cell dysfunction and exhaustion**
- Increases the infiltration, proliferation and activation of CD8+ T cells and the infiltration of Natural Killer T cells in the tumor microenvironment, thus **rendering “cold” tumors “hot”**

ATG-101 is a Potentially Best-in-Class Bispecific Antibody of PD-L1/4-1BB



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- Greater PD-L1 arm affinity and moderate 4-1BB arm affinity to balance the efficacy and safety risk
 - PD-L1/4-1BB arm affinity ratio of 65 to ensure the tumor enrichment of ATG-101
- 2+2 format enables potent 4-1BB activation with low risk of hook effect



ATG-101



GEN1046



ES101/INBRX-105-1



MCLA145



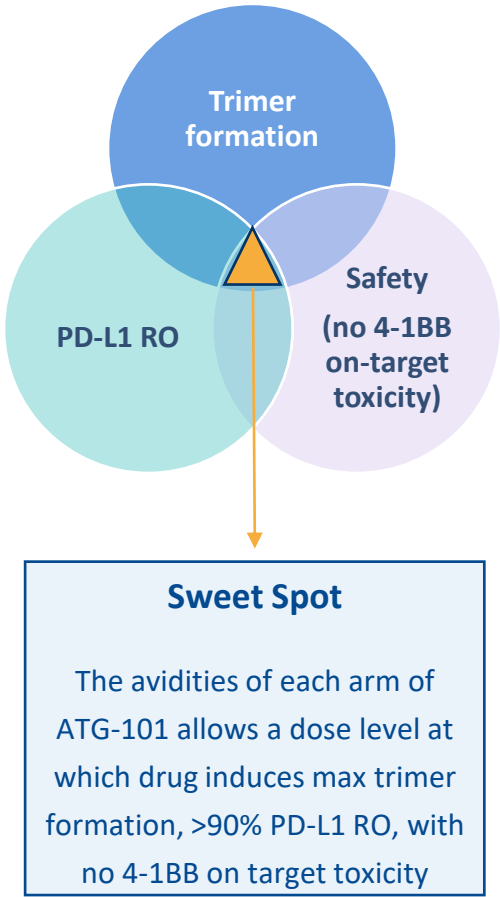
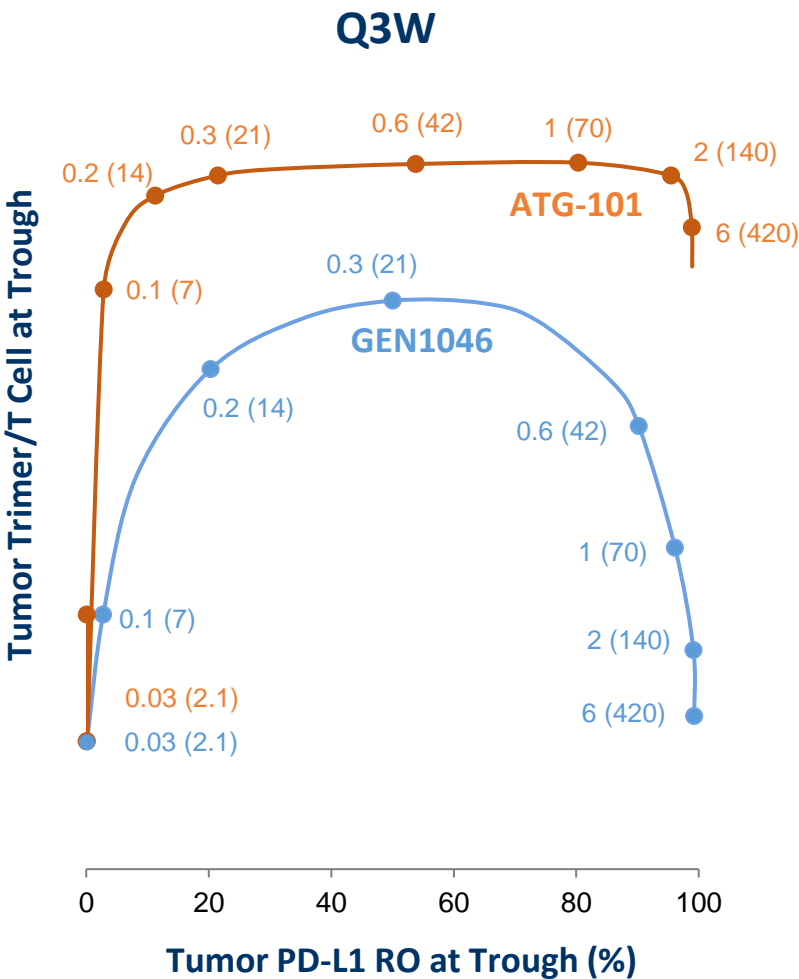
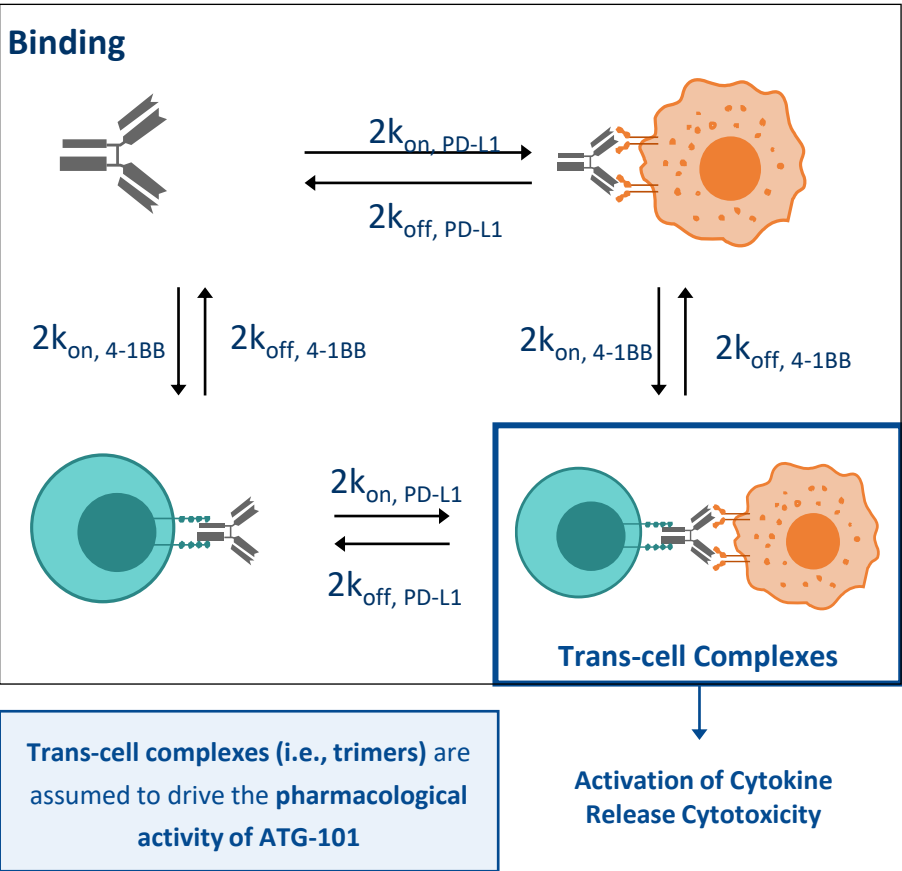
ABL-503

	ATG-101	GEN1046	ES101/INBRX-105-1	MCLA145	ABL-503
Company	Antengene	Genmab/BioNTech	Inhibrx	Merus/Incyte	ABL
Format	2+2	1+1	2+2	1+1	2+2
PD-L1 Arm affinity	1.77E-10	1.6E-10	Not available	3E-10	3E-9
4-1BB Arm affinity	1.14E-8	1.5E-10	Higher than ATG-101	1.9E-9	1E-8
PD-L1/4-1BB Arm Affinity Ratio	65	1	Not available	3.6	3
Valent	Tetravalent	Bivalent	Tetravalent	Bivalent	Tetravalent
Hook Effect Risk	Low	High	Low	High	High
4-1BB Activation	Trimer-dependent	Trimer-dependent	Trimer-dependent	Trimer-dependent	Trimer-dependent

ATG-101 Induces Maximum Trimer Formation and >90% PD-L1 Receptor Occupancy at 2 mg/kg in Humans

A Computational Semi-mechanistic Pharmacology Model Predicts that ATG-101 Induces Max Trimer Formation and >90% PD-L1 RO at 2mg/kg in Humans

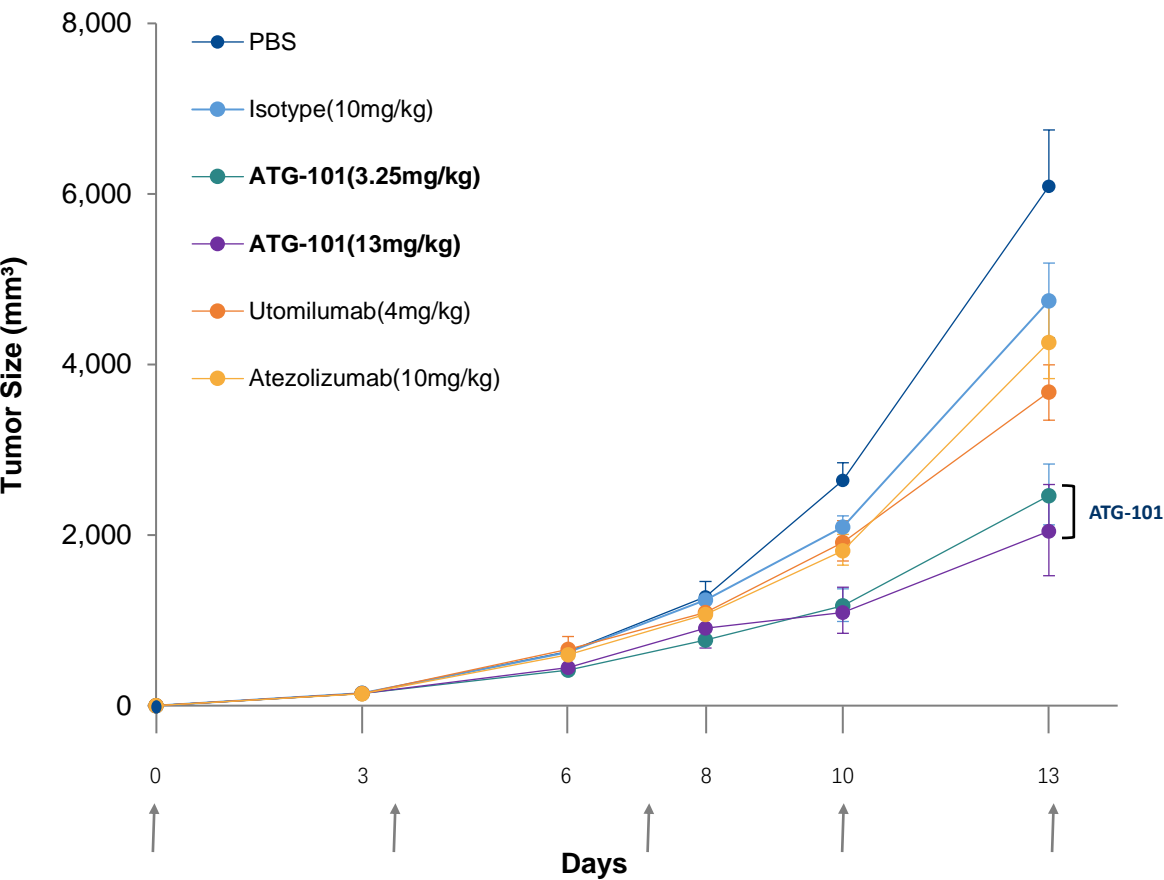
Model Structure and Strategy



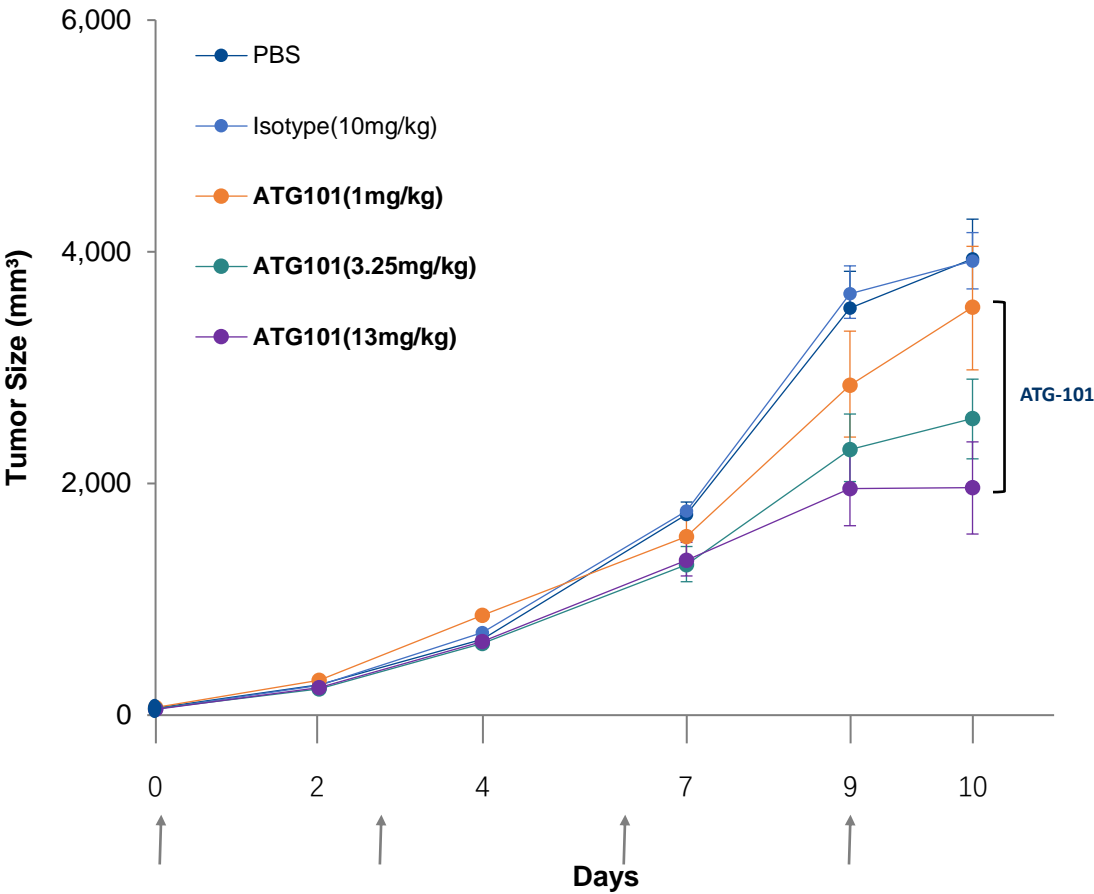
ATG-101 Induced Potent Anti-tumor Efficacy in Anti-PD-L1-Resistant Tumor Models

Anti-tumor Efficacy in Primary Anti-PD(L)1 Resistant Tumor Models

Anti-PD(L)1 Resistant B16F10 (Melanoma) Tumor Cells



Anti-PD(L)1 Resistant EL4 (Lymphoma) Tumor Cells



ATG-101 Has Been Granted an Orphan Drug Designation (ODD) by the U.S. FDA for the Treatment of Pancreatic Cancer



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Pancreatic Cancer is a Highly Malignant Type of Gastrointestinal Cancer

ATG-101 Demonstrated Potent In Vivo Efficacy in Pan02, ICI-resistant Murine Syngeneic Pancreatic Cancer Model

495,000+

New Cases Globally
Each Year

13th

Globally by Incidence

7th

Globally by
Mortality Rates

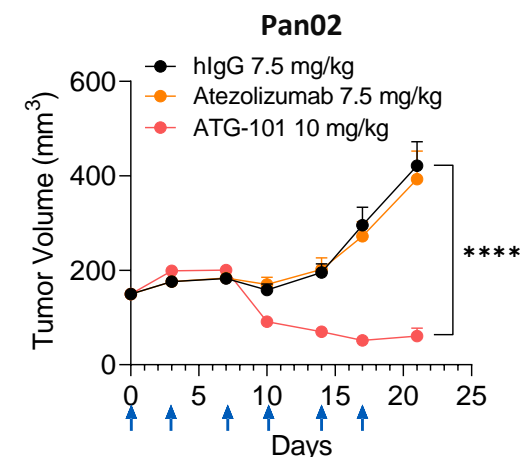
466,000+

Related Deaths
Globally Each Year

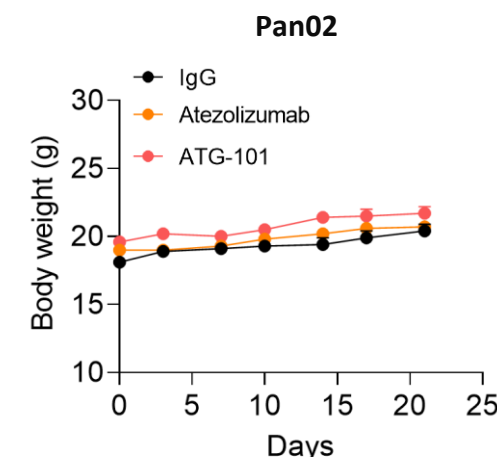
2nd

Most Common Cause of
Cancer-related Deaths by
2030

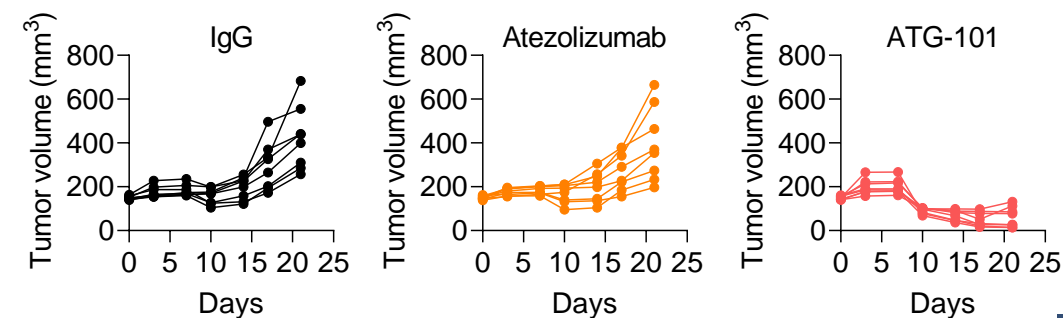
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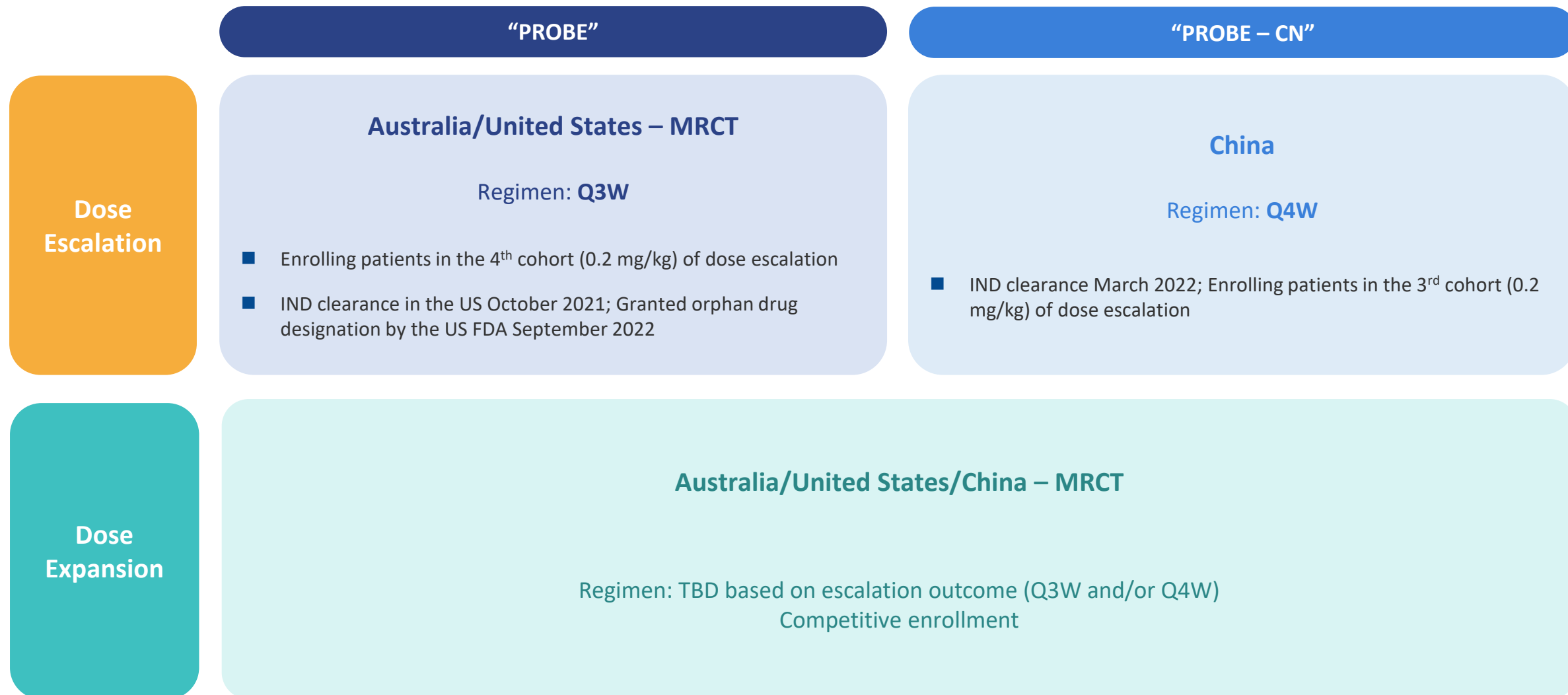


(B)



(C)





ATG-101 “PROBE” Clinical Trial Design and Status Updates



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First-in-Human Phase 1 Trial of ATG-101 in Patients with Metastatic/Advanced Solid Tumors and B-NHL

Location: Australia, United States

Key Eligibility Criteria:

■ Dose Escalation:

- Adv. Solid tumors (regardless of PD-L1 expression, not HCC) OR R/R B-NHL
- Exhausted available standard therapies

■ Dose Expansion (8 cohorts):

- Adv. Solid tumors of any histology (except HCC) and CPI-exposed:
 1. DP following prior response/SD for ≥6mths to anti-PD-1/PD-L1
 2. Best response of SD <6mths or DP after anti-PD-1/PD-L1
- Adv. Solid tumors/haematological malignancies with specific histologies below who have failed prior therapies but are CPI naïve:
 3. TNBC
 4. GBM
 5. Gastric cancer, GEJ, oesophageal cancer
 6. HPV+ HNSCC,
 7. Cervical cancer
 8. B-NHL

Dose Escalation

N = ~40-50

COHORT 1 (21-day cycle)
ATG-101: Q3W, 0.014 mg/kg IV on day 1

N = 1

COHORT 2 (21-day cycle)
ATG-101: Q3W, 0.03 mg/kg IV on day 1

N = 1

COHORT 3 (21-day cycle)
ATG-101: Q3W, 0.07 mg/kg IV on day 1

N = 1

COHORT 4+ (21-day cycle)
Starting dose level
ATG-101: Q3W, 0.2 mg/kg IV on day 1

For duration of clinical benefit, as determined by investigator
“BOIN design” dose escalation

MTD, OBD

Status:

- Enrolling patients in the 4th cohort (0.2 mg/kg) of dose escalation;
- IND clearance in the US October 2021;
- Granted orphan drug designation by the US FDA September 2022

Primary endpoint: MTD, OBD, safety

Secondary endpoints: ORR, BOR, DOR, PFS, PK/PD

Exploratory endpoints: incidence of ADA, immune microenvironment, biodistribution

Dose Expansion

N = 12 - 40
(per cohort)

ATG-101 CPI-exposed (21-day cycle)

ATG-101: Q3W, MTD/OBD IV on day 1

2 cohorts, adv. Solid tumors of any histology:

- 1) DP following prior response/SD for ≥6mths to anti-PD-1/PD-L1
- 2) Best response of SD <6mths or DP after anti-PD-1/PD-L1

For duration of clinical benefit, as determined by investigator

ATG-101 CPI-naïve (21-day cycle)

ATG-101: Q3W, MTD/OBD IV on day 1

6 cohorts:

- 1) TNBC
- 2) GBM
- 3) Gastric cancer, GEJ, oesophageal cancer
- 4) HPV+ HNSCC
- 5) Cervical cancer
- 6) B-NHL

For duration of clinical benefit, as determined by investigator

ATG-101-001

Sponsor: Antengene

ADA: anti-drug antibody; Adv.: advanced; BOR: best overall response; BOIN: Bayesian optimal interval; B-NHL: B-cell non Hodgkin Lymphoma; CPI: checkpoint inhibitor; DOR: duration of response; DP: disease progression; GBM: glioblastoma multiforme; GEJ: gastroesophageal junction adenocarcinoma; HCC: hepatocellular carcinoma; HNSCC: head and neck squamous cell carcinoma; HPV: human papilloma virus; MTD: maximum tolerated dose; OBD: optimal biological dose; ORR: overall response rate; PFS: progression free survival; PD: pharmacodynamics; PK: pharmacokinetics; R/R: relapsed or refractory; SD: stable disease; TNBC: triple negative breast cancer; TPS: tumor proportion score

ATG-101 “PROBE-CN” Clinical Trial Design and Status Updates



ANTENGENE

First-in-Human Phase 1 Trial of ATG-101 in Patients with Advanced Solid Tumors and B-NHL

Location: China

Key Eligibility Criteria:

■ Dose Escalation:

- Adv. Solid tumors (regardless of PD-L1 expression, not HCC)
- Exhausted available standard therapies

■ Dose Expansion:

- Adv. Solid tumors with primary resistant to CPI
- Adv. Solid tumors with secondary resistant to CPI
- Failed prior therapies, but are CPI naive (incl. TNBC, GBM, gastric cancer, GEJ, oesophageal cancer, HPV+ HNSCC, cervical cancer and ≥2L B-NHL)

Dose Escalation

N = ~40-50

COHORT 1 (21-day cycle)

N = 1

ATG-101: Q4W, 0.014 mg/kg IV on day 1

COHORT 2 (21-day cycle)

N = 1

ATG-101: Q4W, 0.07 mg/kg IV on day 1

COHORT 3+ (21-day cycle)

Starting dose level

ATG-101: Q4W, 0.2 mg/kg IV on day 1

For duration of clinical benefit, as determined by investigator

“BOIN design” dose escalation

MTD, OBD

Status:

- IND clearance March 2022;
- Enrolling patients in the 3rd cohort (0.2 mg/kg) of dose escalation

Primary endpoint: MTD, OBD, safety

Secondary endpoints: ORR, BOR, DOR, PFS, PK/PD

Exploratory endpoints: Immune microenvironment, biodistribution

Dose Expansion

N = 12 - 40
(per cohort)

ATG-101 (28-day cycle)

ATG-101: RP2D, Q4W, 8 cohorts ≥12 pts each:

- Adv. Solid tumors with primary resistant to CPI
- Adv. Solid tumors with secondary resistant to CPI
- Failed prior therapies, but are CPI naive
 - 1) TNBC
 - 2) GBM
 - 3) Gastric cancer, GEJ, oesophageal cancer
 - 4) HPV+ HNSCC
 - 5) Cervical cancer
 - 6) ≥2L B-NHL

For duration of clinical benefit, as determined by investigator

ATG-101-001-CN
Sponsor: Antengene

ATG-037: Orally Available Small Molecule Inhibitor of CD73 with Best-in-Class Potential



ANTENGENE

Summary of ATG-037

- Functions to **inhibit CD73** – the ecto-5'-nucleotidase that catalyzes the conversion of AMP to adenosine, a key immune suppressive molecule in the tumor microenvironment

Best-in-Class Potential

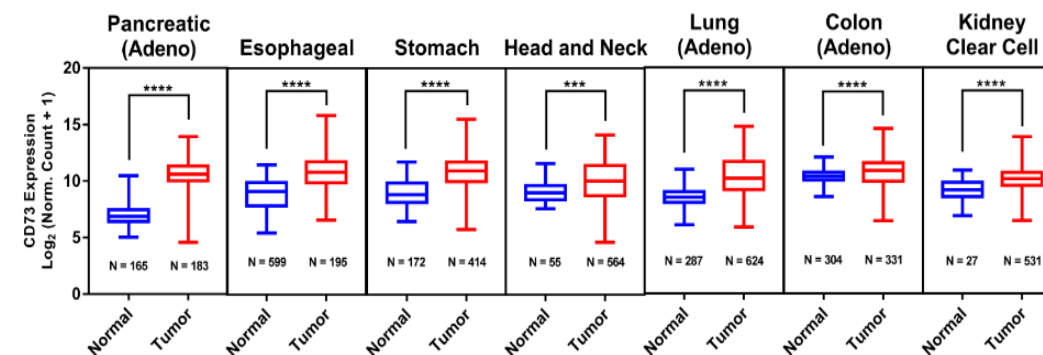
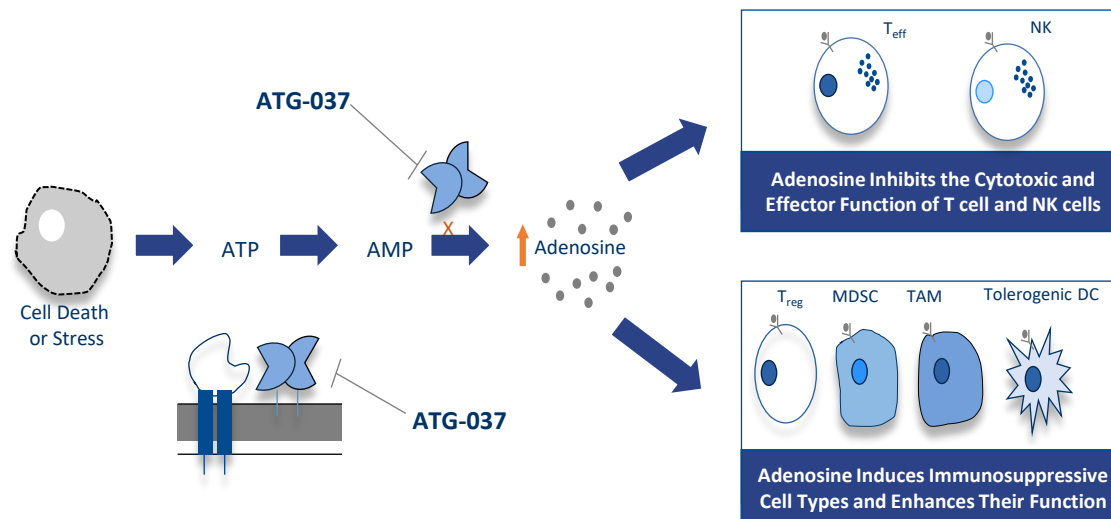
- Completely** blocks CD73 activity and **overcomes “hook effect”** commonly seen in anti-CD73 antibodies
- Promising pre-clinical efficacy as **monotherapy or in combination with standard of care (SoC)** in both solid and liquid tumors
- Rescues T-cell functions in **high AMP conditions**

Excellent Safety Profile

- No ATG-037 related toxicity** identified in GLP toxicology studies
 - Potential large therapeutic window
- No inhibition** of CD39 and other related targets (up to 10 mM)

Broad Therapeutic Potential in Multiple Tumor Types

- Pancreatic, esophageal, gastric, non-small cell lung, colorectal, prostate, head and neck etc.



ATG-037 is a Potentially Best in Class Small Molecule Inhibitor of CD73



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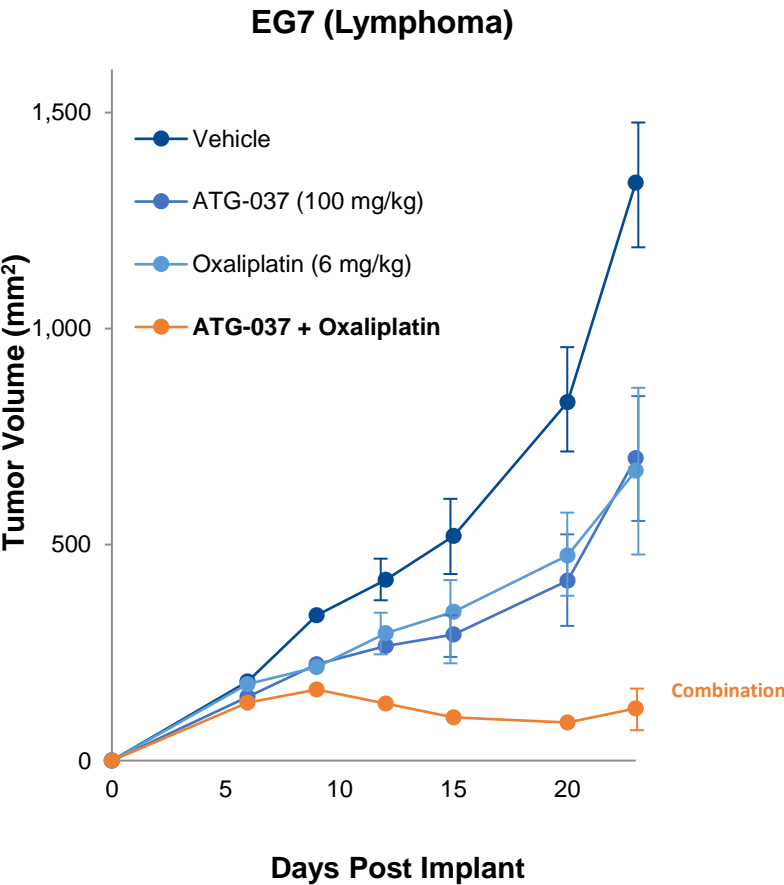
- Orally bioavailable small molecule, with tissue penetrance not achievable with monoclonal antibodies
- Better cell surface CD73 enzyme inhibition than antibodies with no hook effect
- Showed the highest CD73 enzyme inhibition activity for small molecule inhibitors reported so far

ATG-037		Quemliclustat/AB680		ORIC-533		Oleclumab/MEDI9447		Uliledlimab/Hu101-28			
Company		Antengene		Arcus		ORIC		AZ		IMAB	
Global Status		Phase I		Phase I/II		Phase I		Phase II/III		Phase II	
Modality		Small molecule		Small molecule		Small molecule		Antibody		Antibody	
Binding kinetics / Potency indicators	Cell surface CD73 inhibition (IC ₅₀) in buffer	0.4 nM (Antengene test in A375 cells)		5.3 nM (ORIC test in H1568 cells)		0.1 nM (ORIC test in H1568 cells)		3.5 nM (Antengene test in A375 cells)		20.9 nM (Antengene in house test in A375 cells)	
	CD73 inhibition (% of control activity) in buffer	100%, no hook effect		>90%, no hook effect		100%, no hook effect		~50%, hook effect		100%, no hook effect	
	Human plasma CD73 protein inhibition (IC ₅₀)	0.38 nM		19.9 nM (report)		No report					
CD8+T cell rescue at high AMP (> 100 μM)		Complete rescue at 1 mM AMP (proliferation, activation, cytokine)		No rescue		Complete rescue at 1 mM AMP (proliferation, activation, cytokine)		No rescue (Antengene in house test)		No rescue (Antengene in house test)	
Efficacy <i>in vivo</i>		Monotherapy in EG7 and CT26 (100 mpk, ~60% TGI), synergism with oxaliplatin, docetaxel, or PD-L1 antibody		Combination with aPD-1 in B16F10		150 mpk in EG7 model, 67% TGI of monotherapy		Combination with aPD-(L)1		Monotherapy of A375 in PBMC engrafted; combination with aPD-(L)1 in HCC827, PBMC engrafted	

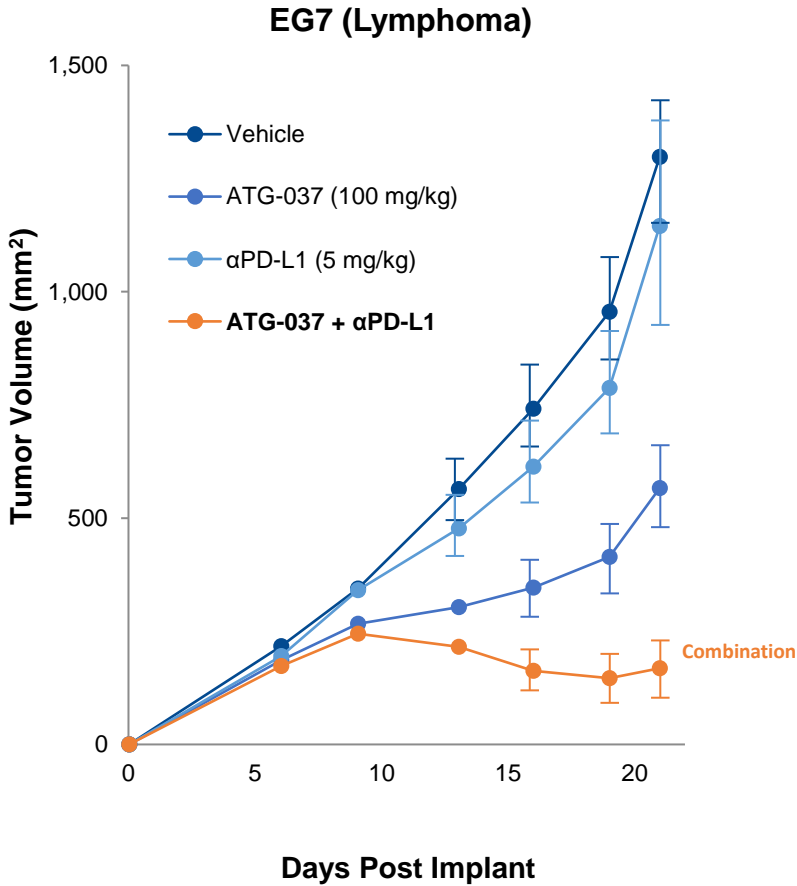
ATG-037 Demonstrates In Vivo Synergy with Chemotherapy, Checkpoint Inhibitors and ATG-010 (Selinexor)



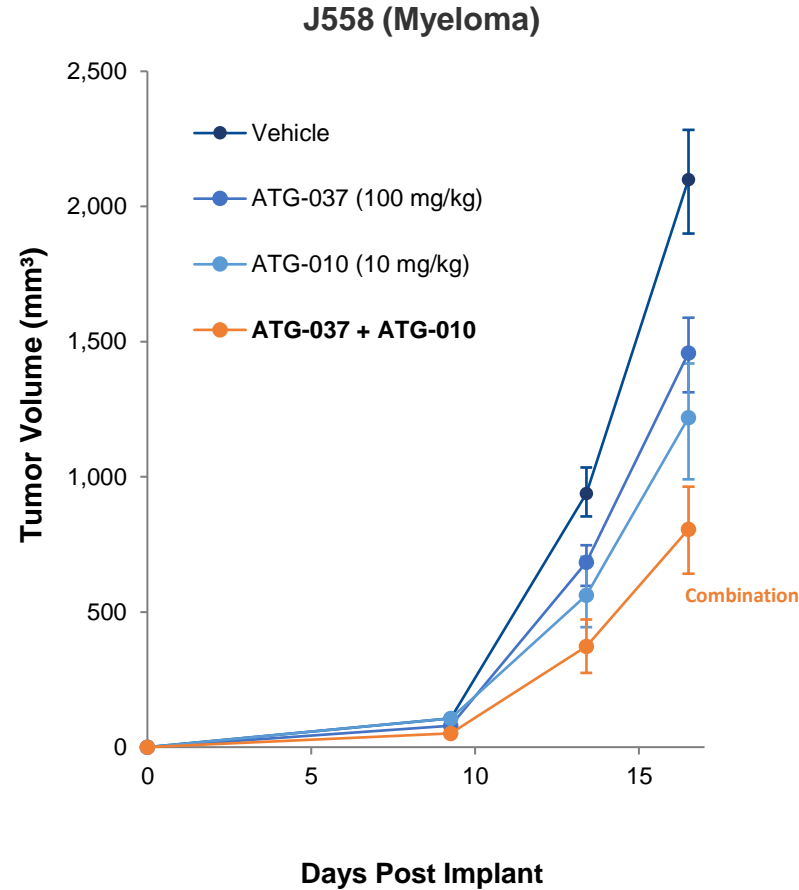
In Vivo Synergy with Chemotherapy in Mouse EG7 Lymphoma



In Vivo Synergy with Anti-PD-L1 in Mouse EG7 Lymphoma Model



In Vivo Synergy with ATG-010 (Selinexor) in Mouse J558 Myeloma Model



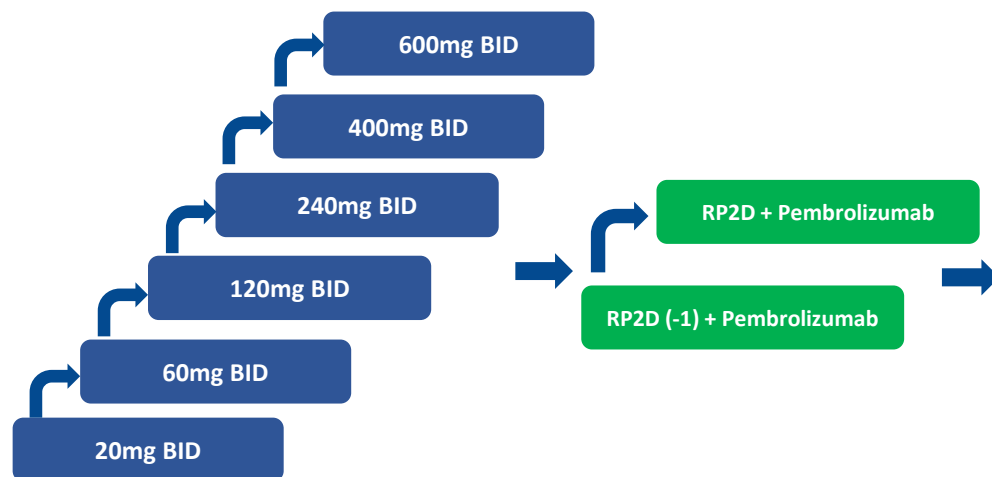
ATG-037 “STAMINA” Clinical Trial Design and Status Updates



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Phase I/Ib, Multi-center, Open-label, and Dose-finding Study to Assess the Safety, Pharmacokinetics, Pharmacodynamics, and Preliminary Efficacy of ATG-037 Monotherapy and Combination Therapy with Pembrolizumab in Patients with Locally Advanced or Metastatic Solid Tumors

Dose Escalation*



Dose Expansion

- CPIs naïve patients (CRPC, CRC, ovarian cancer, etc.)
- Acquired CPIs resistant patients (NSCLC, SCCHN, etc.)

Target Population

- Patients with locally advanced or metastatic solid tumors
- Demonstrated disease progression after standard therapies or for which no standard of care (SoC) therapies exist
- Patients with acquired CPIs resistance

Primary Objectives:

- To assess the safety and tolerability of ATG-037 monotherapy and combination therapy with pembrolizumab
- To determine the Recommended Phase II Dose (RP2D) of ATG-037 monotherapy and combination therapy with pembrolizumab

Secondary Objectives:

- To evaluate the preliminary anti-tumor activity of ATG-037 alone or combination with pembrolizumab
- To characterize the PK/PDx profile of ATG-037

Part I: Monotherapy*

Part II: Upfront Combination

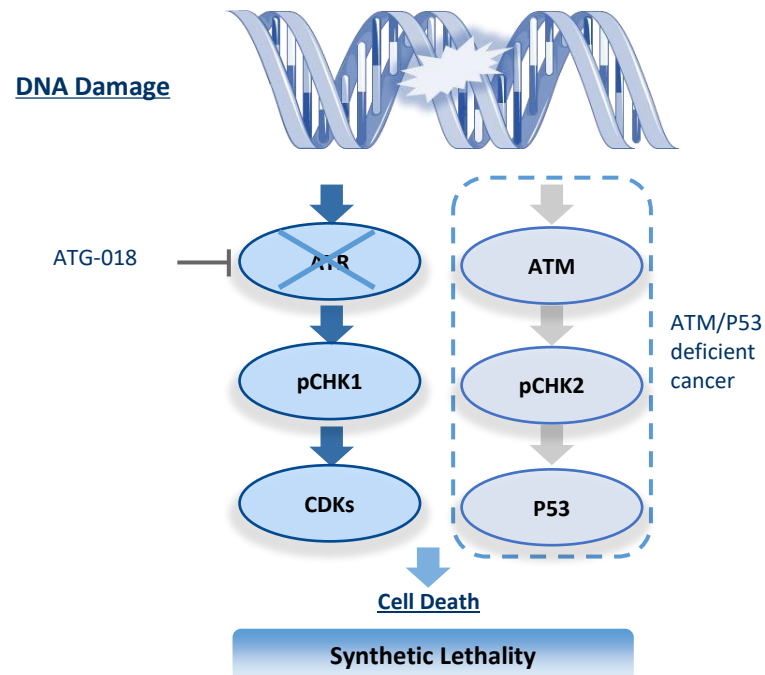
Status:

- First patient dosed in June 2022 in Australia, currently in cohort 2;
- IND approval in China expected in Q4 2022

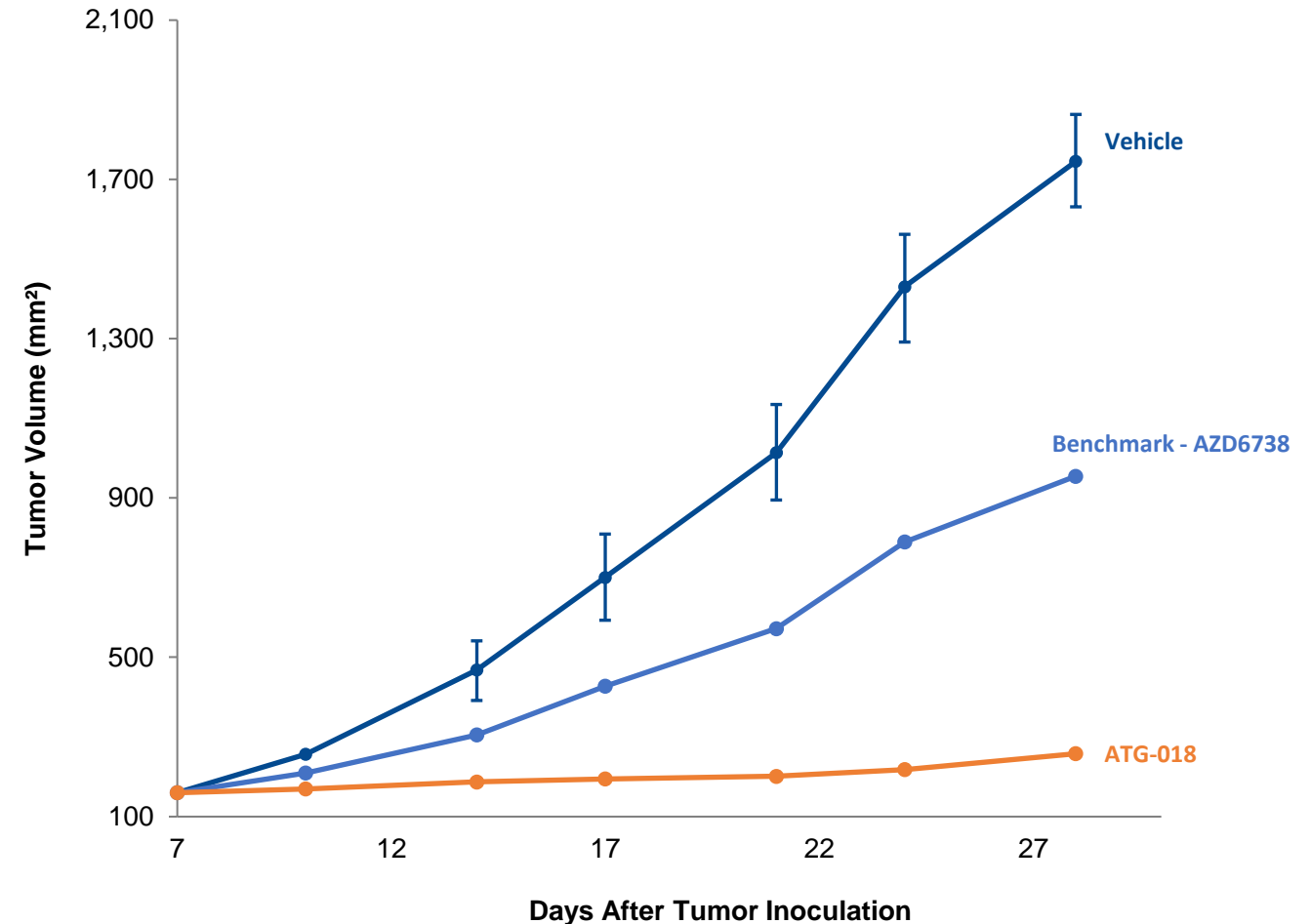
ATG-018: DNA Damage Repair Inhibitor with Superior In Vivo Efficacy

Summary of ATG-018

- ATG-018 Inhibits DNA damage repair, releasing tumor cells from cell cycle arrest and inducing tumor cell death by **synthetic lethality**
- Demonstrated **superior in vivo efficacy**, compared with clinical benchmark in pre-clinical CDX models
- **Biomarker strategies** have been developed for ATG-018



In Vivo Efficacy Comparison (LOVO CDX) ¹



ATG-018 is a Potentially Best-in-class Small Molecule Inhibitor of ATR



ANTENGENE

- Better ATR downstream (CHK1) phosphorylation inhibition and cell anti-proliferation potency than AZD6738*
- Demonstrates better safety profiles (CYP and hERG Inhibition) than BAY189534**
- Demonstrates better in vivo efficacy in LoVo CDX model than reference compounds

Dimensions of Comparison		ATG-018	RP3500/Camonsertib	AZD6738/Ceralasertib	BAY1895344/Elimusertib
Company		Antengene	Repare	AstraZeneca	Bayer
Global Status		Phase I	Phase I/II	Phase III	Phase I/II
Binding kinetics / Potency indicators	ATR Enzyme Assay IC ₅₀ (nM)	16	1.00	2.9	18
	pCHK1 Cell IC ₅₀ (nM)	2.2	0.33	13.7	0.7
	CYP inhibition 1A2/2C9/2C19/2D6/3A4 ^(M) /3A4 ^(T) IC ₅₀ (μM)	>50/>50/>50/21.26/>50/>50	-	> 50 ³ A4 ^(M)	3.14 (ref=10~15) 3A4 ^(M)
	Transporters OATP1B1/OATP1B3 IC50 (μM)	> 40/ >40	-	2.0/ -	>10 / -
	hERG IC50 (μM)	> 50	-	> 40	15 ^(ref)
TGI (% , LoVo CDX 25mpk BID, 5 on 2 off)		74.7	~65 (15 mpk QD, continuous, >15% BW loss)	21.3	39.5

* AZD6738 is Ceralasertib currently being developed by AstraZeneca

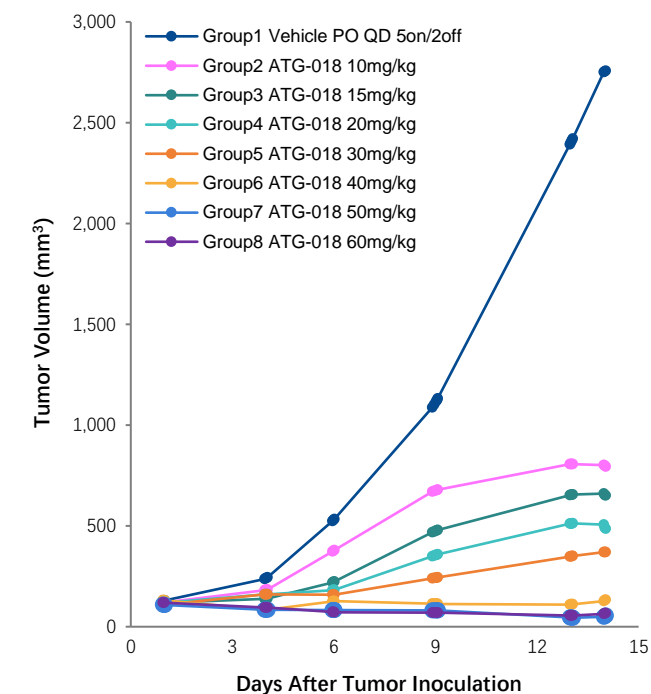
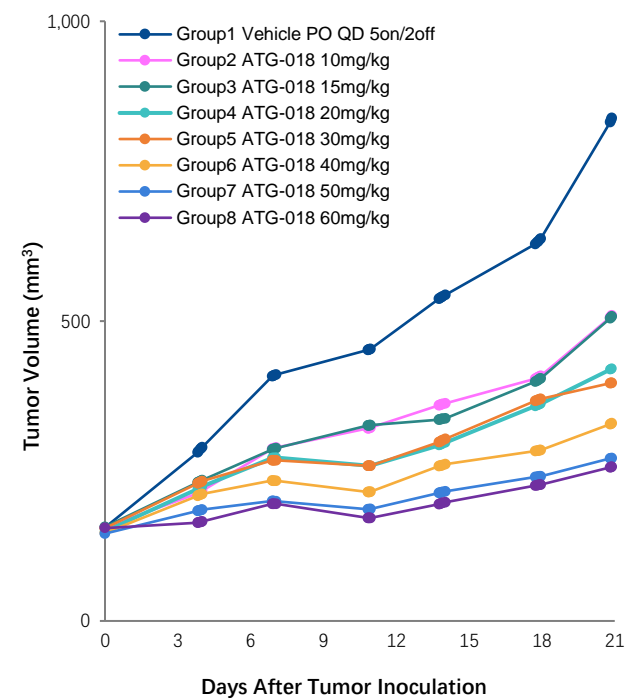
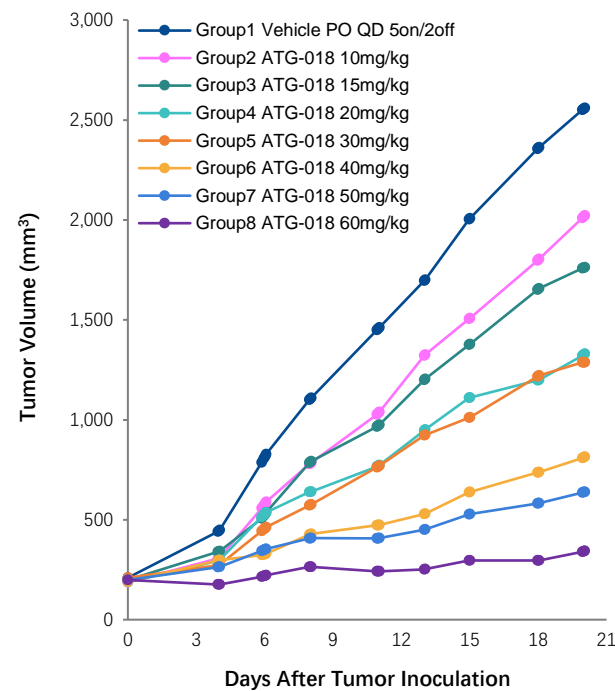
** BAY189534 is Elimusertib currently being developed by Bayer

Source: Publications & primary research

ATG-018 Shows Strong Anti-Tumor Efficacy in DNA Damage Response-Sensitive CDX Models

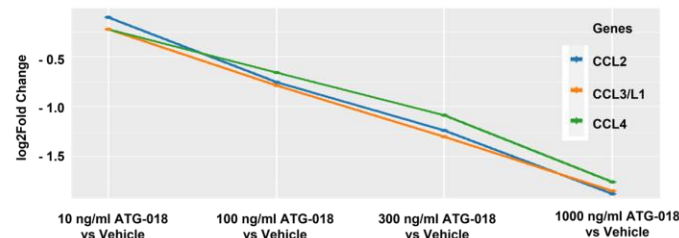
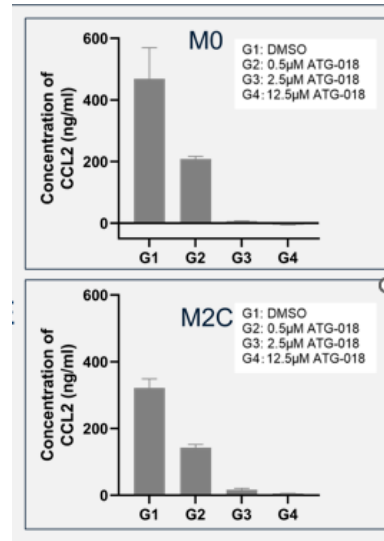
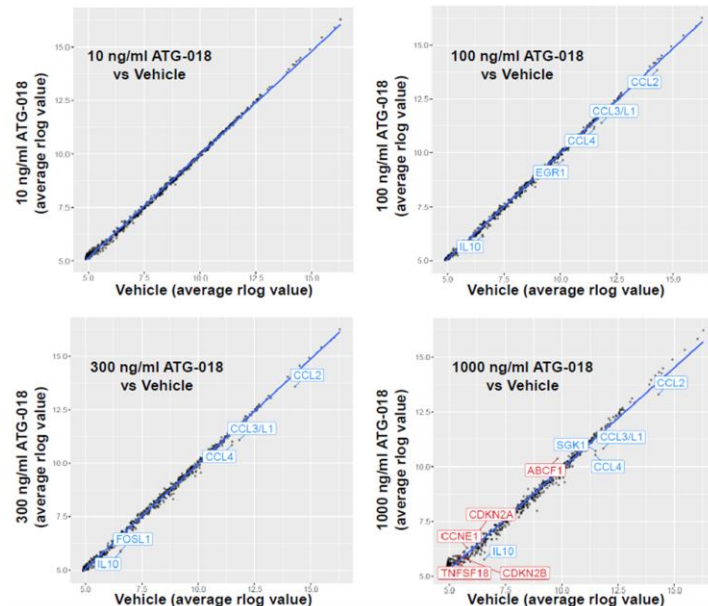
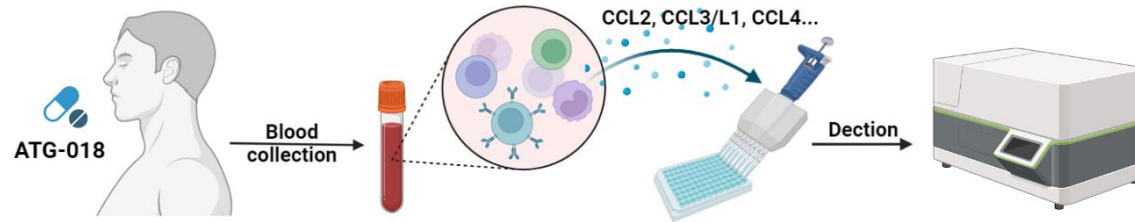


Model	LoVo	OE21	OCI-LY-19
Cancer	Colorectal Cancer	Esophageal Cancer	Lymphoma
DDR Mutation	MRE11, ARID1A	ARID1A	ARID1A
ATG-018: 10 mg/kg – TGI	20.93% (Day 20)	39.20% (Day 21)	73.52% (Day 14)
ATG-018: 50 mg/kg – TGI	74.59% (Day 20)	67.72% (Day 21)	100.83% (Day 14)



Source: AACR 2022.

Discovery of Blood Pharmacodynamic Biomarkers for ATR Inhibitors



Blood Pharmacodynamic Biomarkers

- Pharmacodynamic (PD) biomarkers are crucial to help guide dose and scheduling and support mechanism of action studies
- Phosphorylation of Chk1 or γ H2AX has been reported to be PD markers of ATR inhibitors. However, these markers are difficult to measure directly using blood samples
- By unbiased gene expression screening, we found the expression of some chemokines, especially CCL2, CCL3/L1, and CCL4 are potential novel PD biomarkers of ATG-018, which could be detected in unmanipulated blood samples, and may guide dose and scheduling and support mechanism of action studies of both ATG-018 and other ATR inhibitors in clinic

ATG-018 “ATRIUM” Clinical Trial Design and Status Updates



ANTENGENE

Phase I, Open-Label, Multi-Center Dose Finding Study to Investigate the Safety, Pharmacokinetics, and Preliminary Efficacy of ATG-018 (ATR inhibitor) Treatment in Patients with Advanced Solid Tumors and Hematological Malignancies

Anticipated Dose Escalation Schedule (For Solid Tumors Group)

Dose Level ¹	ATG-018 Dose at Each Treatment Administration Point	Planned Subject Numbers
1 ²	5 mg QD	1
2 ²	5 mg BID	1
Per BOIN Design (maximum number of subjects: 42)		
3 ²	10 mg BID	-
4 ²	20 mg BID	-
5 ²	30 mg BID	-
6 ²	45 mg BID	-
7 ²	60 mg BID	-
8 ²	75 mg BID	-
9 ²	90 mg BID	-

Status:

- Enrollment of the 3rd cohort on-going.
- China and US IND to be submitted upon completion of dose escalation in Australia

Target Population

- Patients with mixed solid tumors or B-NHL

Primary Objectives:

- To evaluate the safety and tolerability of ATG-018
- To establish MTD and/or RP2D of ATG-018 in subjects with advanced solid tumors and hematological malignancies

Secondary Objectives:

- To characterize the PK of ATG-018 following a single dose administration and at steady state after multiple dosing
- To assess the preliminary anti-tumor activity of ATG-018 in subjects with advanced solid and hematological malignancies

Other Objectives:

- To explore the PDx of ATG-018 following a single dose administration and at steady state after multiple dosing
- To explore the relationship between biomarkers and clinical results

¹ If tolerated at the highest doses, then further escalation may be allowed to higher dose levels.

² Subject(s) will receive intermittent dosing in a 3 days on/4 days off schedule in 21-day cycles until disease progression or unacceptable toxicity.



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DRUG DISCOVERY

ATG-022: An Anti-Claudin 18.2 ADC with Potent In Vivo Efficacy in Claudin 18.2 Low-Expression Tumors

Summary of ATG-022

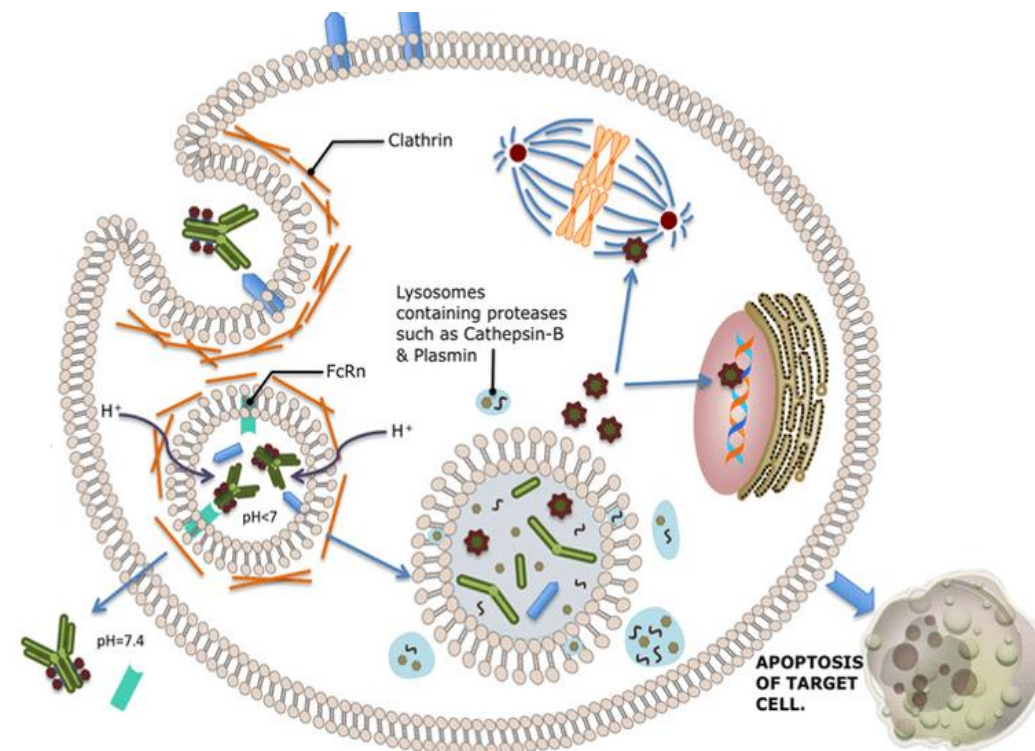
- Claudin 18.2 is a **tumor-associated antigen** overexpressed particularly in gastric, esophageal and pancreatic cancers, occasionally in other tumors including lung, ovarian, and head & neck malignancies
- Clinical ADC candidate with **vc-MMAE as linker payload (DAR4)**

Best-in-Class Potential

- High affinity antibody (pM grade) against Claudin 18.2 **allows targeting of patients with low expression of Claudin 18.2**
- Strong in vivo efficacy pre-clinically in PDX models with **various Claudin 18.2 expression levels, including in tumors with extremely low Claudin 18.2 expression**

Excellent Safety Profile

- Demonstrated an **excellent safety profile** in GLP toxicology studies
 - Induced complete tumor regression (tumor-free) in pre-clinical PDX model **without affecting the body weight of the animal**
- Displayed **high specificity** in Retrogenix's Cell Microarray Technology Experiment
 - ATG-022 mAb **specifically interacted with CLDN18.2**, the primary target, on both fixed and live cells



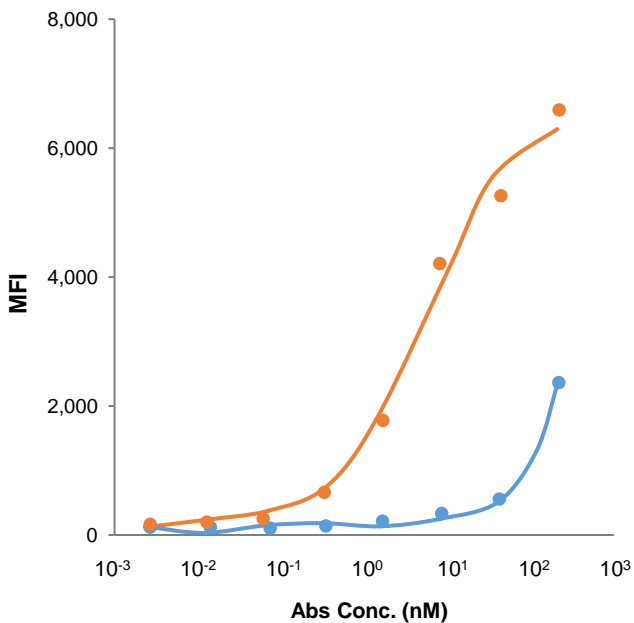
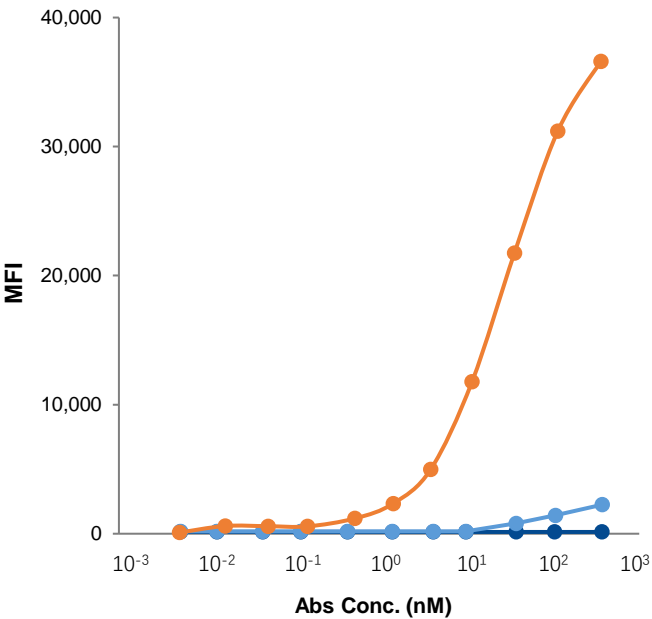
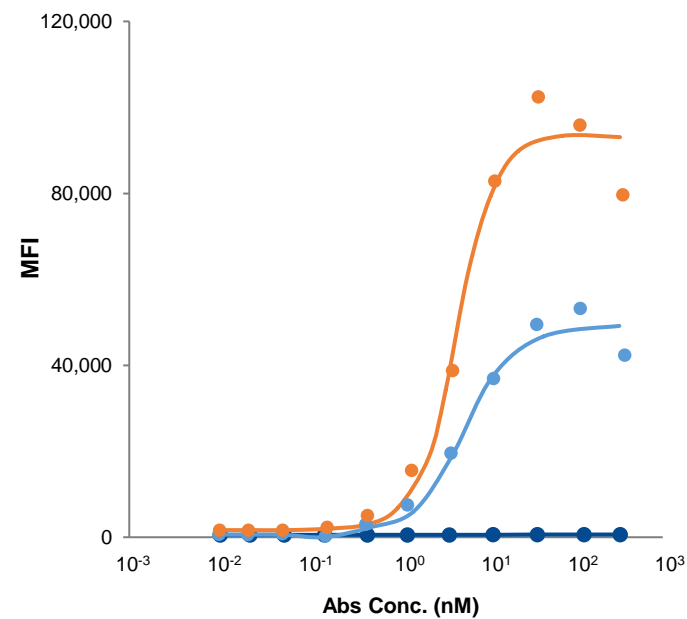
Christina Peters, Stuart Brown
Antibody-drug conjugates as novel anti-cancer chemotherapeutics

ATG-022 Binds to hCLDN18.2 with High Affinity, Allowing Reorganization of Tumor Cells with Low-CLDN18.2 Expression



Cell-based Binding Affinity (EC₅₀) of ATG-022 mAb and Clinical Benchmark Antibodies

	I. CHOK1-hCLDN18.2 (High CLDN18.2 expression)	II. GAXC031 (Moderate CLDN18.2 expression)	III. SNU-620 (Low CLDN18.2 expression)
hIgG1 Ctrl	/	/	/
IMAB362	5.808nM	/	~7,537nM
ATG-022	4.645nM	32.25nM	5.317nM



Source: AACR 2022.

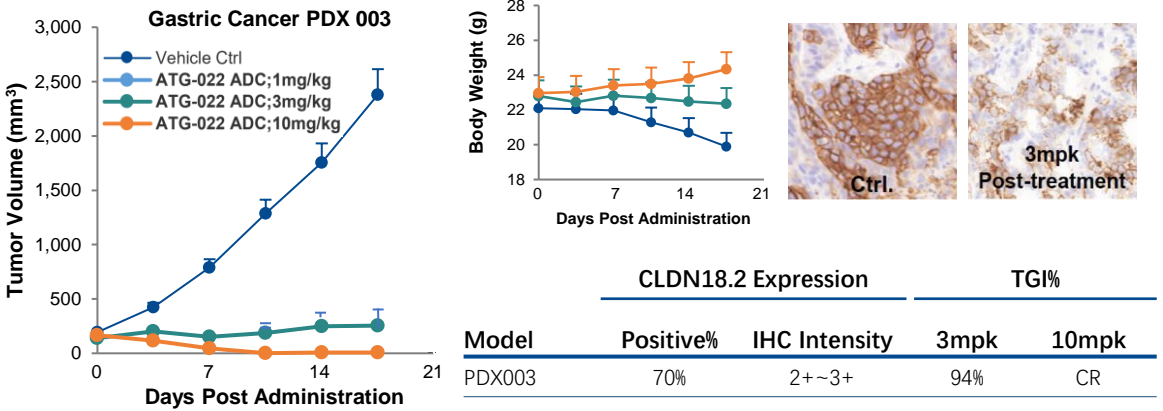
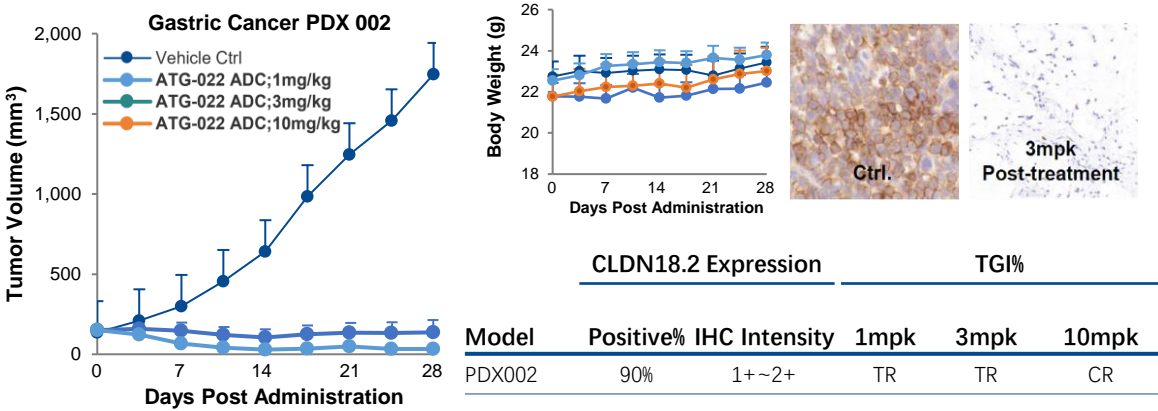
ATG-022 Demonstrated Strong In Vivo Efficacy in Various CLDN 18.2 Level PDX Models



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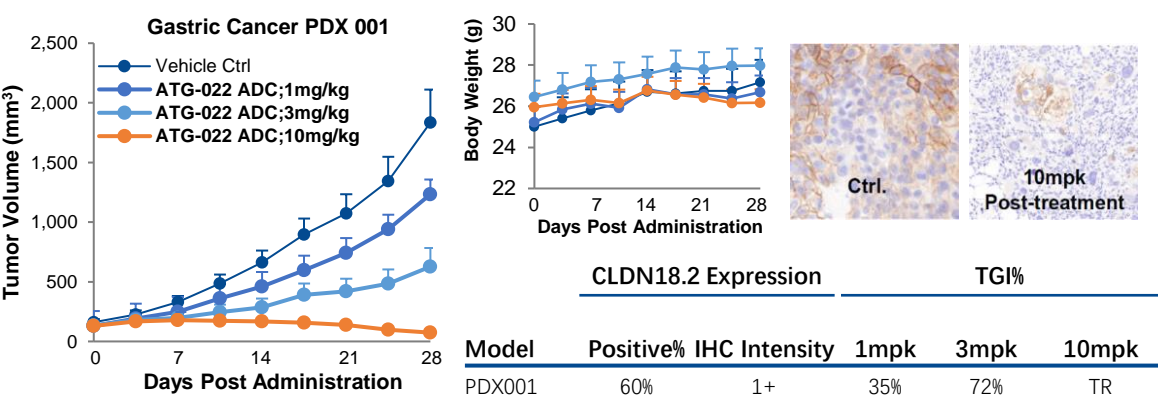
High Expression Level of Claudin 18.2

ATG-022 Induced Tumor Regression (TR) or Complete Remission (CR)



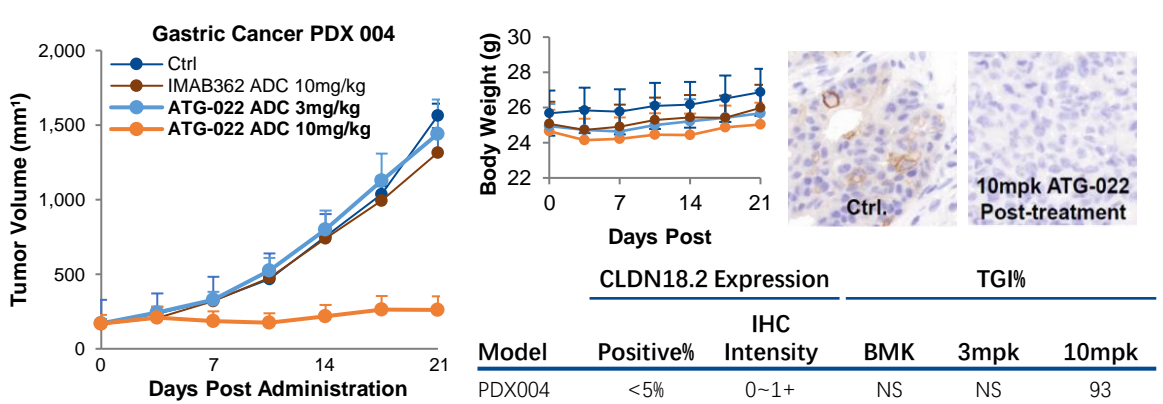
Moderate Expression Level of Claudin 18.2

ATG-022 Induced Tumor Regression (TR) or Complete Remission (CR)



Extremely Low Expression Level of Claudin 18.2

ATG-022 Inhibited Tumor Growth



ATG-022 “CLINCH” Clinical Trial Design and Status Updates



ANTENGENE

Open, Multi-center Phase I Clinical Study of ATG-022 in Patients With Advanced/Metastatic Solid Tumors

Location: Australia, China, United States

Key Eligibility Criteria:

■ Dose Escalation:

- Adv./Meta solid tumors
- No requirement for CLDN18.2 expression
- At least 1 measurable lesion per RECIST v1.1
- Prior standard therapies

■ Dose Expansion:

- Adv. Solid tumors with CLDN18.2 positive at any level
- Have not exposed to a Claudin 18.2 targeting agent
- Adequate organ function
- ECOG 0 or 1

Dose Escalation

N = ~21

ATG-022 (21-day cycle)

Priority tumor types:

Gastric cancer, Esophageal cancer, gastroesophageal junction cancer, pancreatic cancer, ovarian cancer, and cholangiocarcinoma

Until disease progression or unacceptable toxicity

MTD, OBD

Status:

- EC submitted in October 2022 in Australia;
- IND submission in China is planned for December 2022

Primary endpoint:

MTD, RP2D, AE/SAE; DLT

Secondary/other endpoints:

PK, ORR, DOR, DCR, incidence of ADA, CLDN18.2 expression and clinical outcomes

Dose Expansion

N = 30-160

(per cohort)

ATG-022 (21-day cycle)

ATG-022: RP2D, IV, Q3W

3 cohorts (~10-12 pts each first):

- 1) Pancreatic cancer
- 2) Gastric cancer, including gastroesophageal junction cancer
- 3) Adv./Meta solid tumors

Until disease progression or unacceptable toxicity

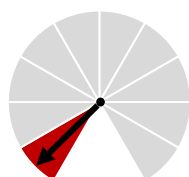
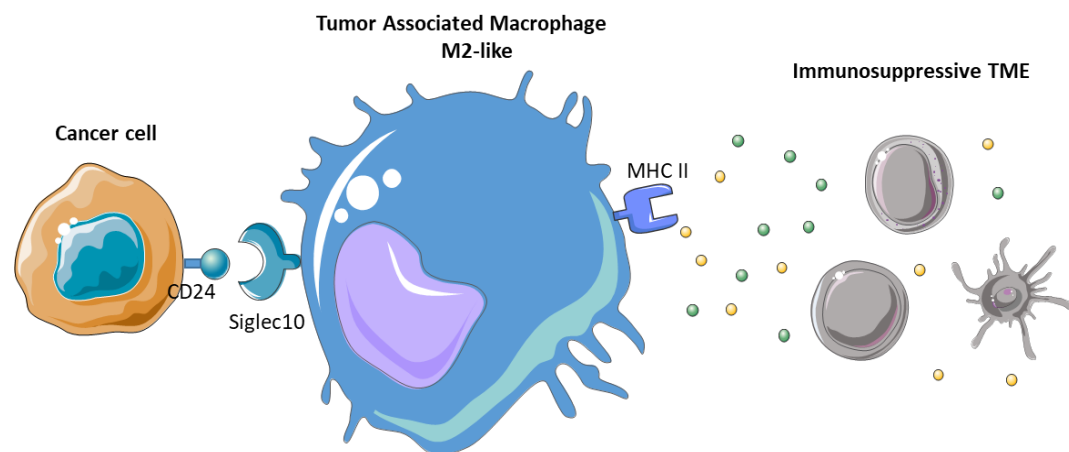
ATG-031: First-in-Class CD24 Antibody to Inhibit the “Don’t Eat Me” Signal



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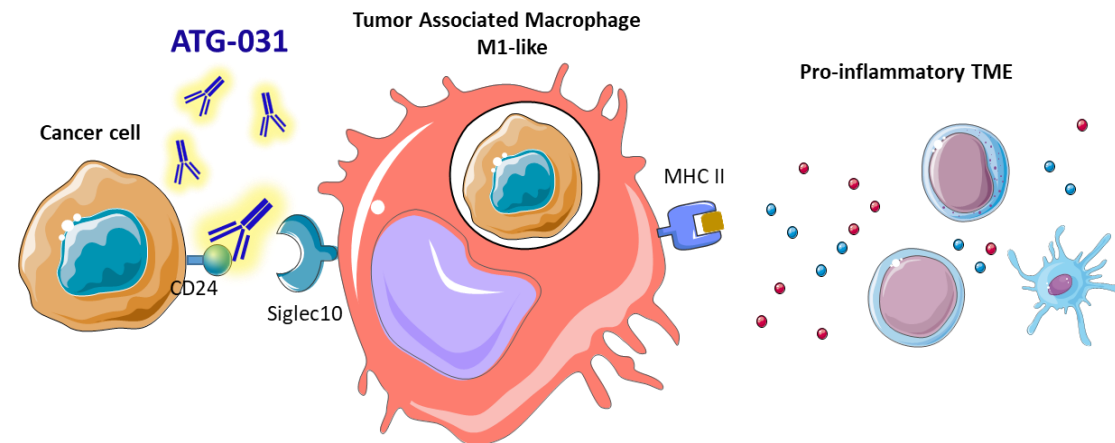
Summary of ATG-031

- CD24 is a “Don’t eat me” signal not expressed in healthy erythrocytes, thus **potentially overcoming the anemia issues commonly seen in CD47**
- **First-in-class humanized CD24 mAb** inhibits the “don’t eat me” signal by blocking CD24-Siglec10 pathway and enhances macrophage-mediated phagocytosis of cancer cells
- **CDx antibody successfully developed** in-house for patient selection
- Potent **single agent** in vivo efficacy and **synergy with chemotherapy or CPI**



“Don’t Eat Me”

- Reduced phagocytosis
- M2-like Tumor Associated Macrophage
- Immunosuppressive Tumor Microenvironment
- Less tumor antigen presentation
- In-activated T and NK cells

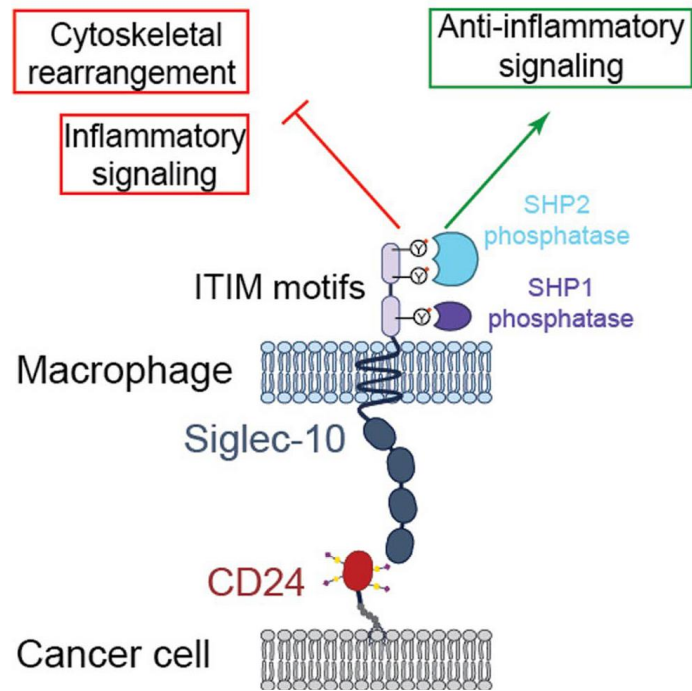


“Eat Me”

- Increased phagocytosis
- M1-like Tumor Associated Macrophage
- Pro-inflammatory Tumor Microenvironment
- Enhanced Tumor Antigen presentation
- Activated T and NK cells

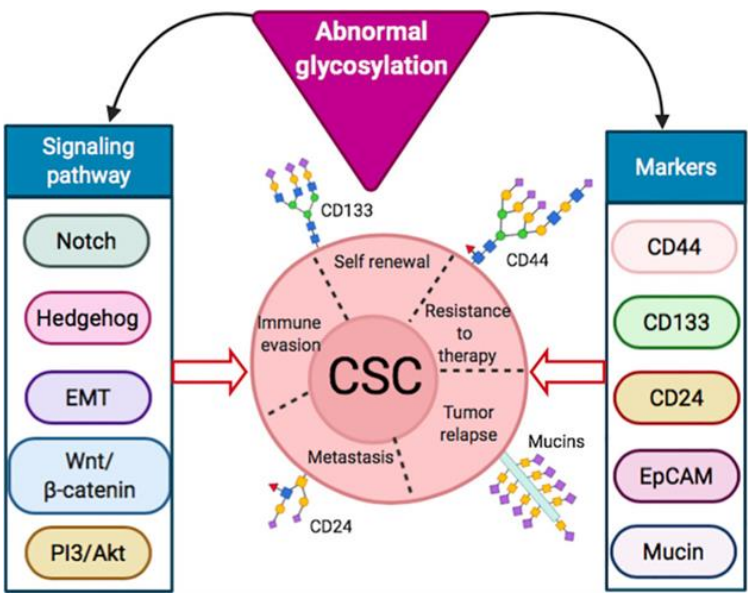
Rationale for Targeting CD24 in Cancer

CD24 is a “Don’t eat me” Protein on Cancer Cell and Triggers Anti-inflammatory Signaling in the TME



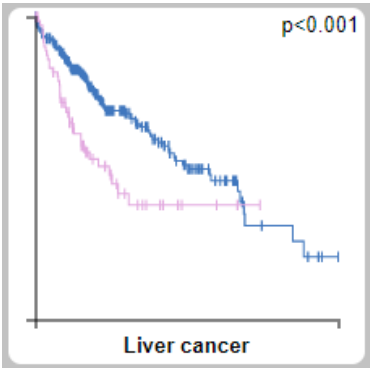
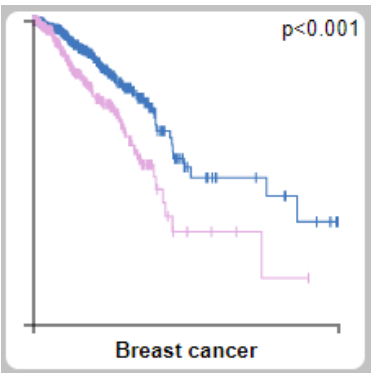
Nature. 2019; 572(7769): 392–396.

CD24 is a Marker of Cancer Stem Cells for Multiple Tumor Types, Such as Ovarian, Liver, Stomach and Pancreatic Cancer



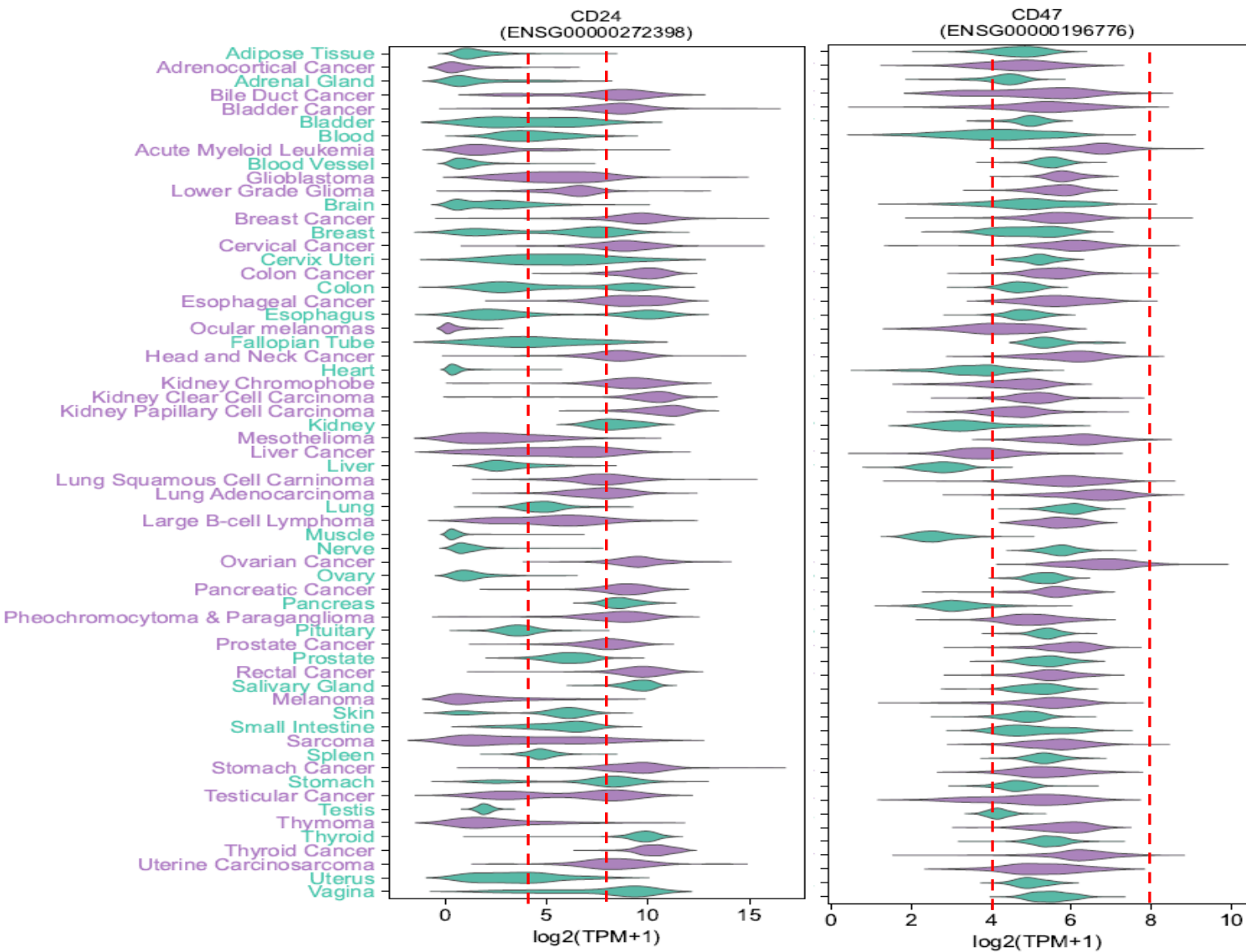
Front Oncol. 2021; 11: 649338.

High Expression of CD24 is a Poor Prognostic Marker for Multiple Tumor Types



Human Protein Atlas

CD24 Has Higher Tumor Expression Compared to CD47



Comparison Analysis

- CD24 showed much higher tumor expression (TCGA) and narrower normal tissue distribution (GTEx), with significantly lower normal heart and CNS expression, compared with CD47
- Anti-CD24 potentially has a larger therapeutic window compared with anti-CD47

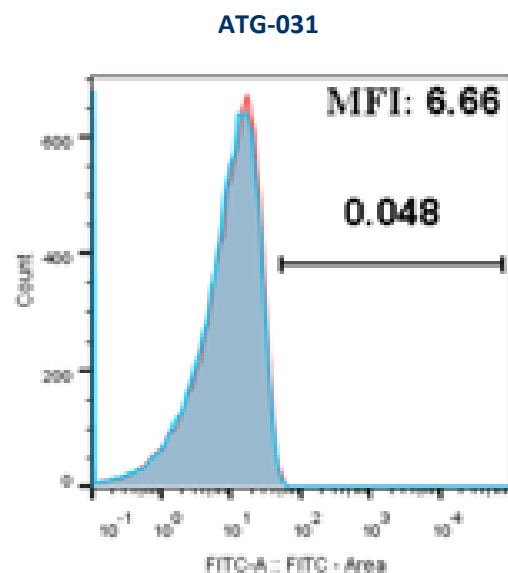
■ Tumor data (TCGA)
■ Normal data (GTEx)

CD24 is Not Expressed on Human Red Blood Cells, Unlike CD47

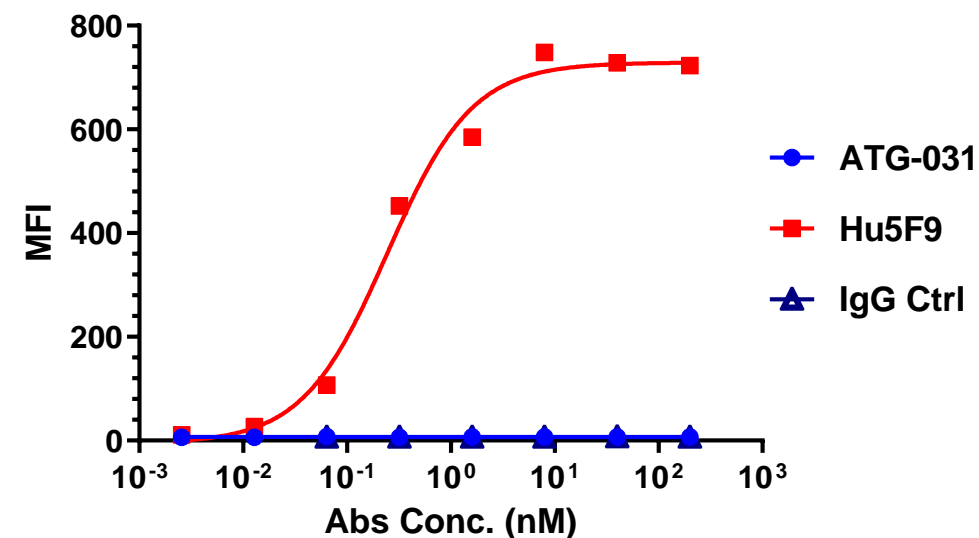
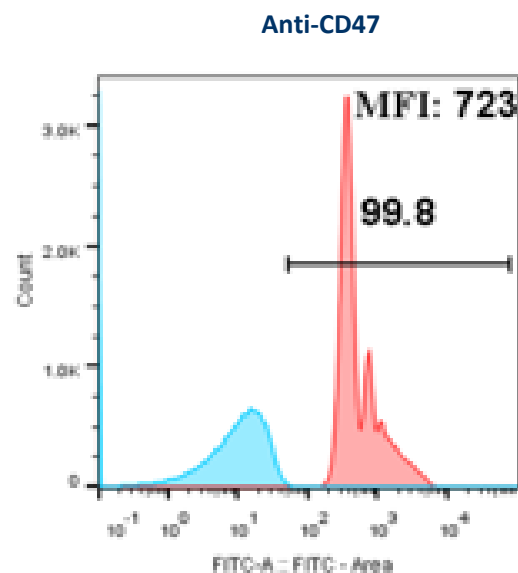


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- Due to the normal tissue distribution of CD47 (eg. Expression on red blood cell), the clinical development of CD47 binding molecules that retain substantial FcR activating capacity (e.g. human IgG1) has been hampered by the on-target-off-tumor toxicity, such as erythrocyte depletion
- Unlike CD47, CD24 is not expressed on human red blood cells



Human RBC

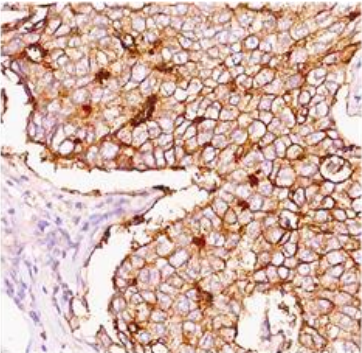


Human RBC Expressed CD47 but Not CD24

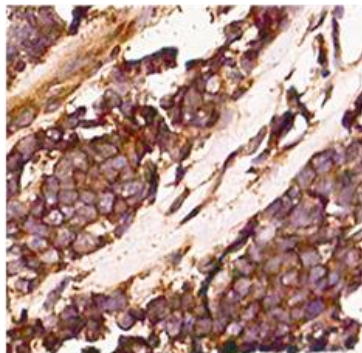
CD24 is Over-expressed in Multiple Tumor Types

- A highly selective CDx antibody for IHC was developed in house
- IHC staining on tumor tissue microarray revealed that 50-80% of patients with lung, breast, bladder, ovarian, or liver cancer have CD24 expression on tumor cell surface
- CD24 over expression was also detected in other solid tumor types and hematological malignancies

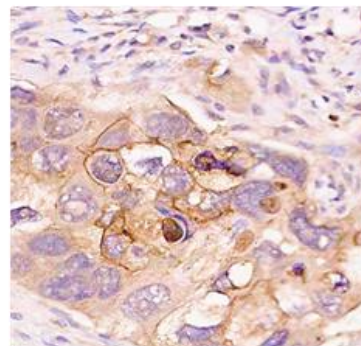
Breast Cancer



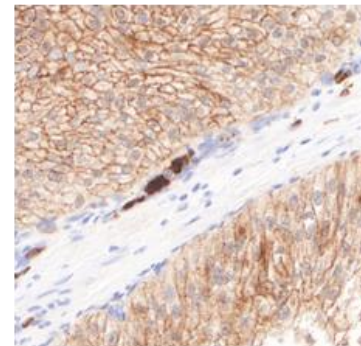
Small Cell Lung Cancer



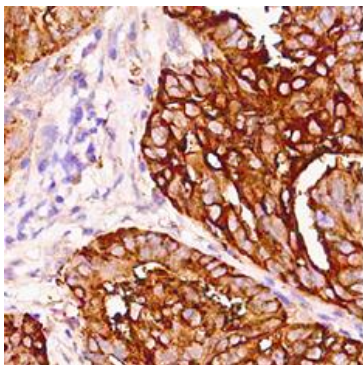
NSCLC-Sq



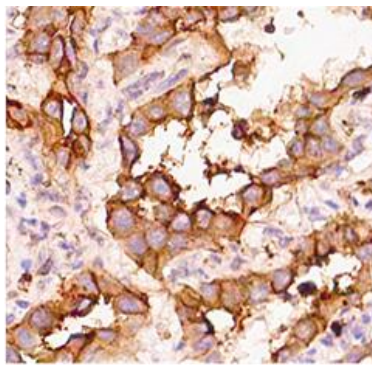
Bladder Cancer



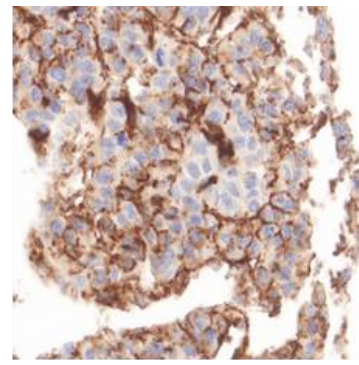
Ovarian Cancer



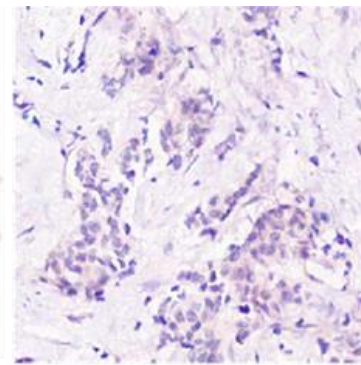
NSCLC-Adeno



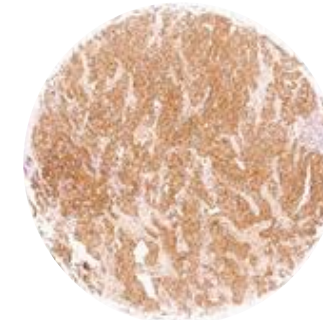
Liver Cancer



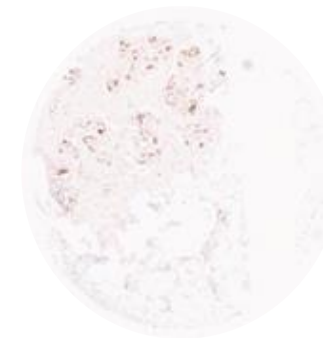
Negative Stained Tumor



CD24 Expression in Cancerous Tissue and Para-cancerous Normal Tissue



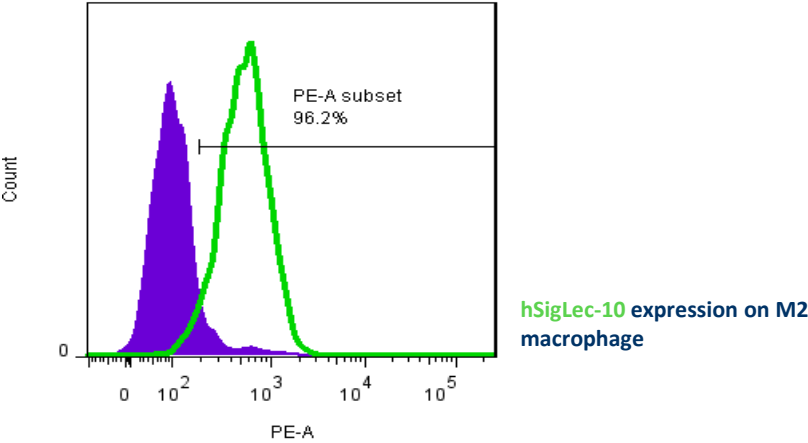
Breast Cancer Tissue



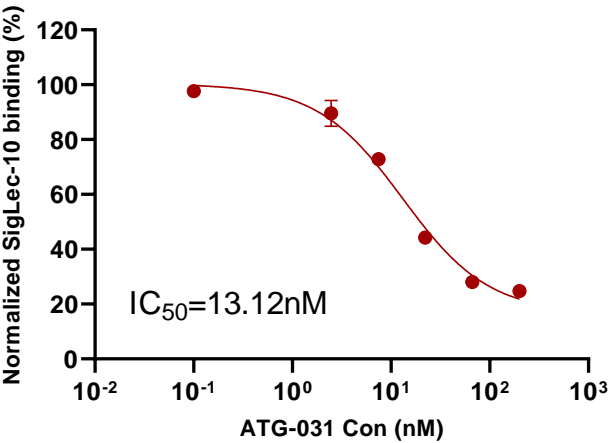
Para-cancerous Normal Tissue

ATG-031 Blocks the Interaction of CD24 and Siglec-10 and Induces Potent Macrophage-dependent Phagocytosis

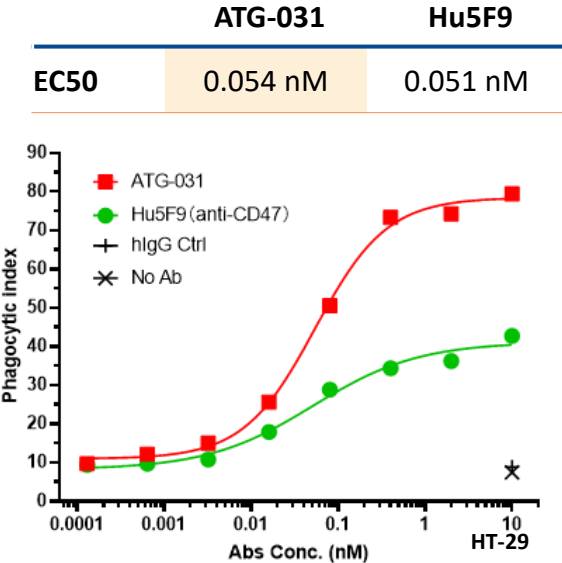
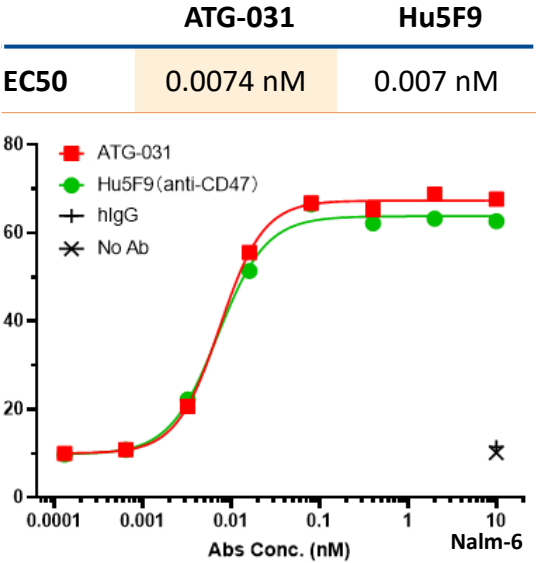
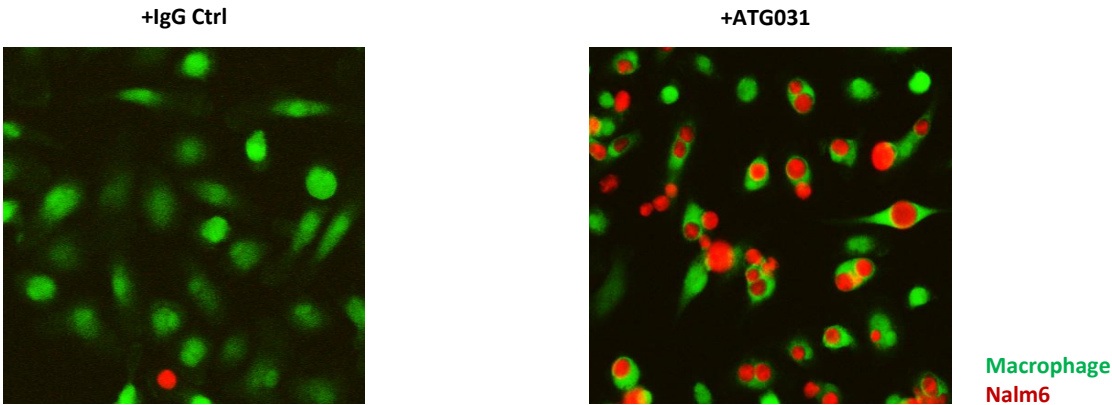
ATG-031 Blocks the Interaction of CD24 and Siglec-10 Protein



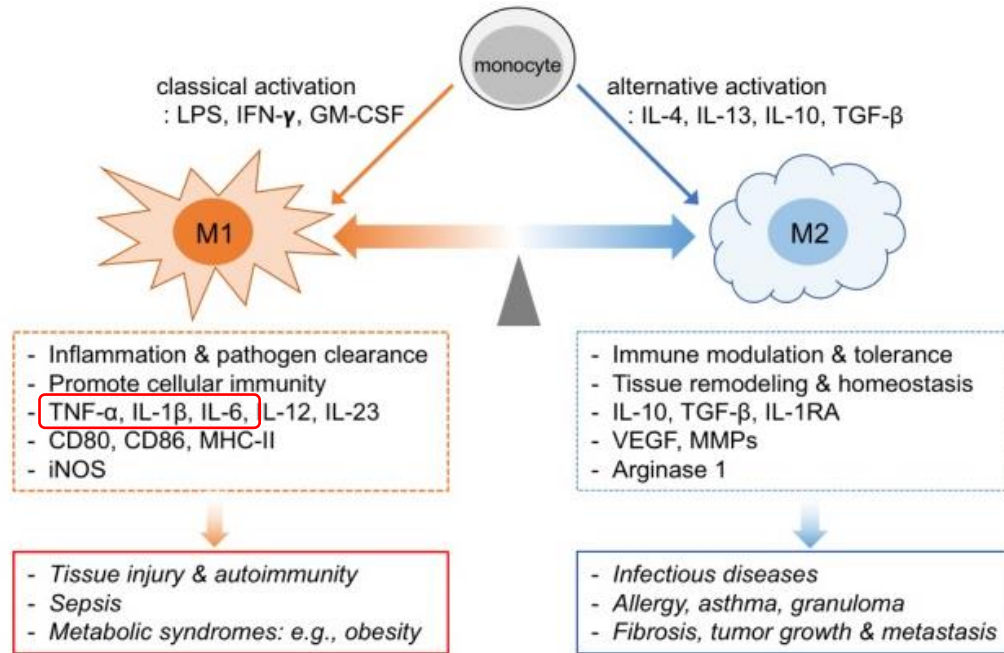
ATG-031 Blocks Interaction of hCD24 and hSigLec-10



ATG-031 Enhances TAM-mediated Phagocytosis of Tumor Cell



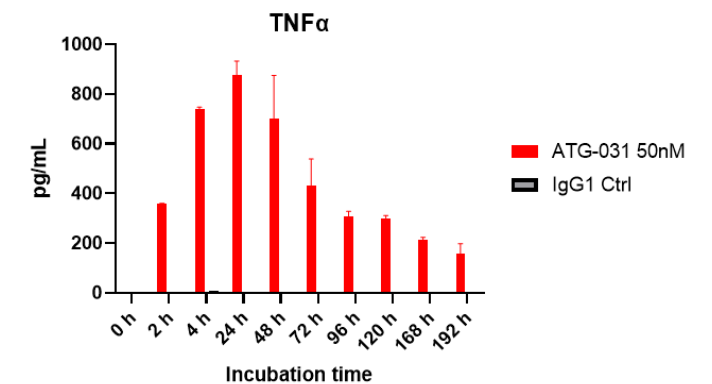
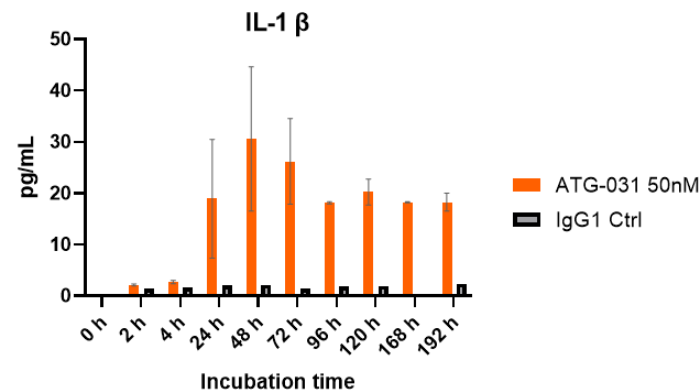
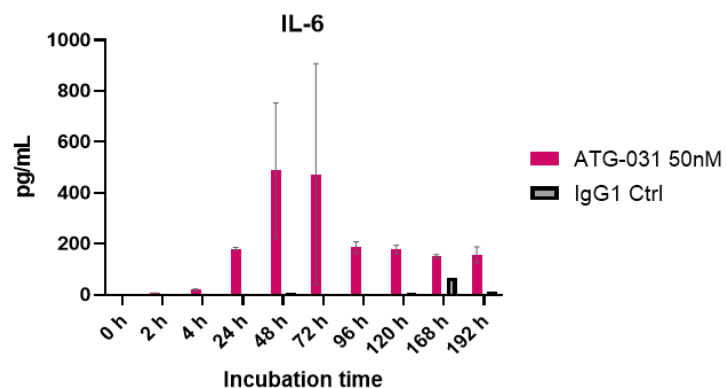
Phagocytosis Induced by ATG-031 Promotes Inflammatory Cytokine Release by M2 Macrophages



Source: BMB Rep. 2019 Jun;52(6):360372

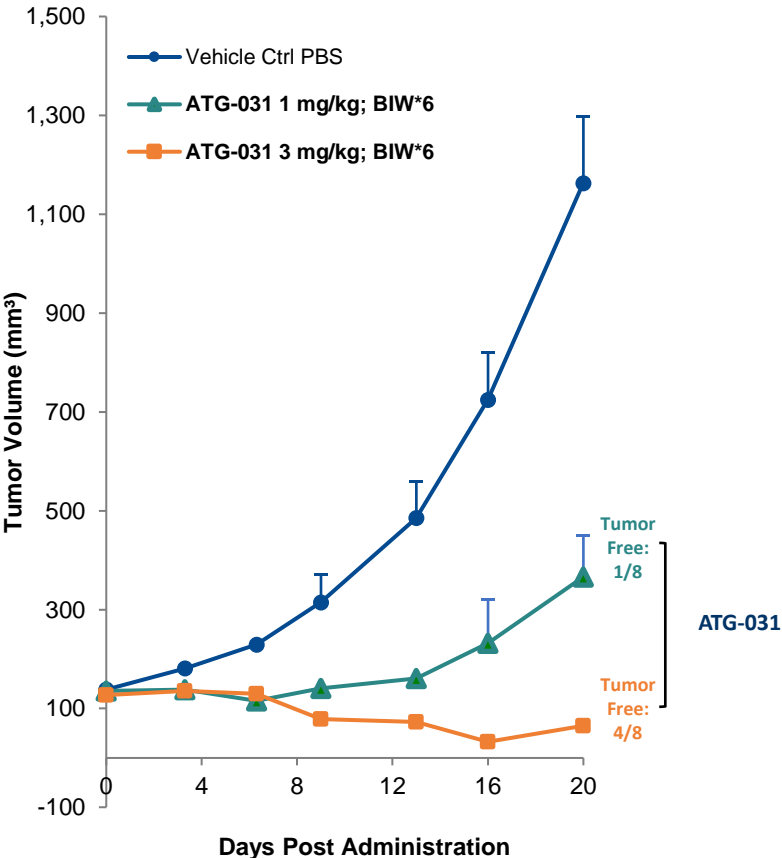
Analysis

- Tumor cells were co-cultured with M2 macrophage with the presence of ATG-031 or IgG control
- Macrophages were then cultured for 192h and supernatant were collected at different time points. The concentration of macrophage-related cytokines in the supernatant were measured.
- Upon phagocytosis, M2 macrophages start to release M1-like cytokines suggesting a repolarization from **immunosuppressive M2 to immuno-active M1 phenotype**

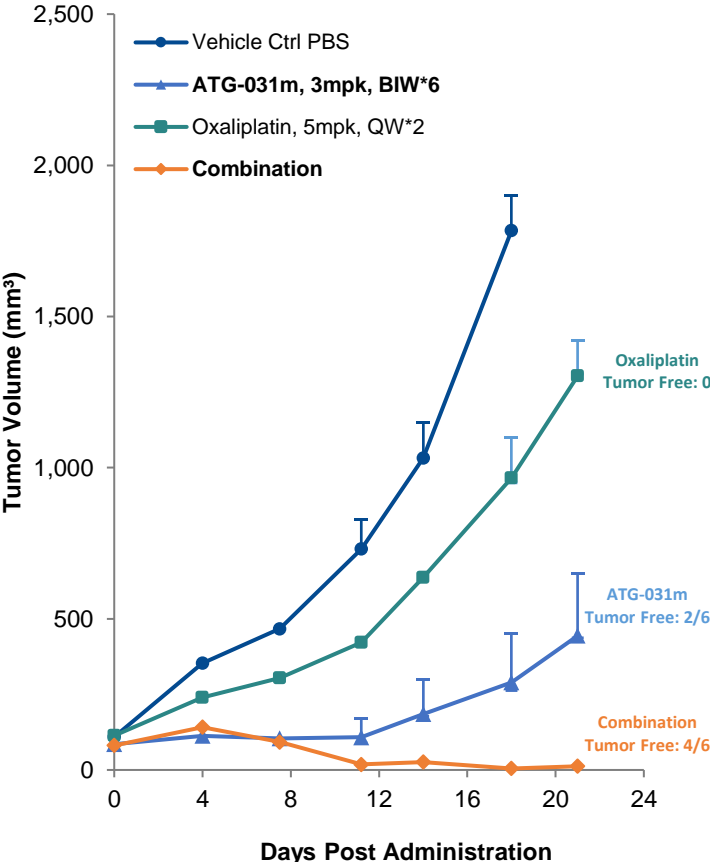


ATG-031 Demonstrates In Vivo Single Agent Efficacy As Well As Synergism with Chemotherapy or Checkpoint Inhibitor

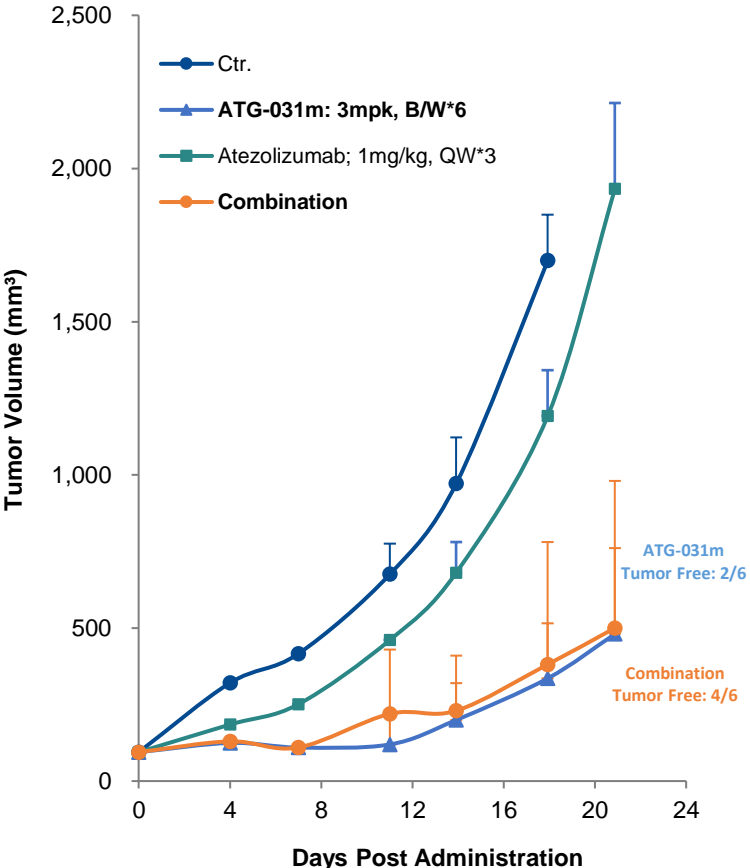
Single Agent Activity in MC38-hCD24 Mouse Tumor Model



In Vivo Synergy with Oxaliplatin in MC38-hCD24 Mouse Tumor Model



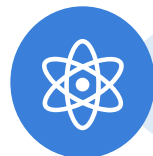
In Vivo Synergy with Anti-PD-L1 mAb in MC38-hCD24 Mouse Tumor Model



Key Takeaways of ATG-031



ANTENGENE



First-in-class humanized CD24 antibody, which inhibits the “Don’t eat me” signal by **blocking the CD24-Siglec10 pathway**



Enhances macrophage-mediated phagocytosis of cancer cells, and polarized M2 macrophages towards **anti-tumor M1 phenotype**



Demonstrated **potent single agent efficacy** as well as **synergy** with Oxaliplatin or ICI in Mouse Tumor Models



A companion diagnostic antibody has been developed for patient selection, **indicating potential priority evaluation in breast, lung, ovarian, liver and bladder cancers, as well as B-cell malignancies**



Well tolerated in non-human Primates



IND is planned for **H1 2023**

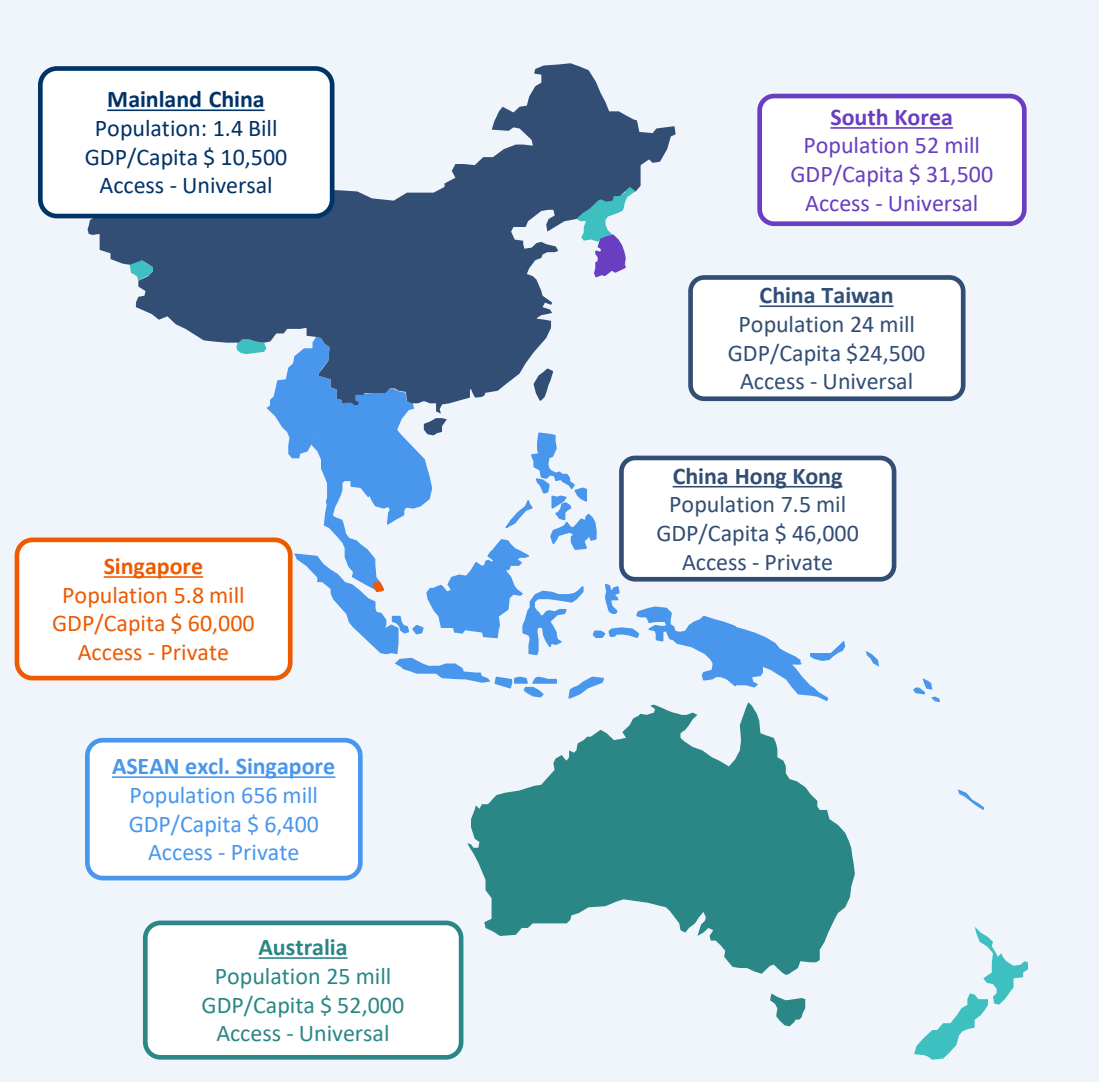


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XPOVIO® (SELINEXOR) / ATG-010
COMMERCIAL LAUNCH

Antengene Has been Focused on Executing on our Defined Strategy

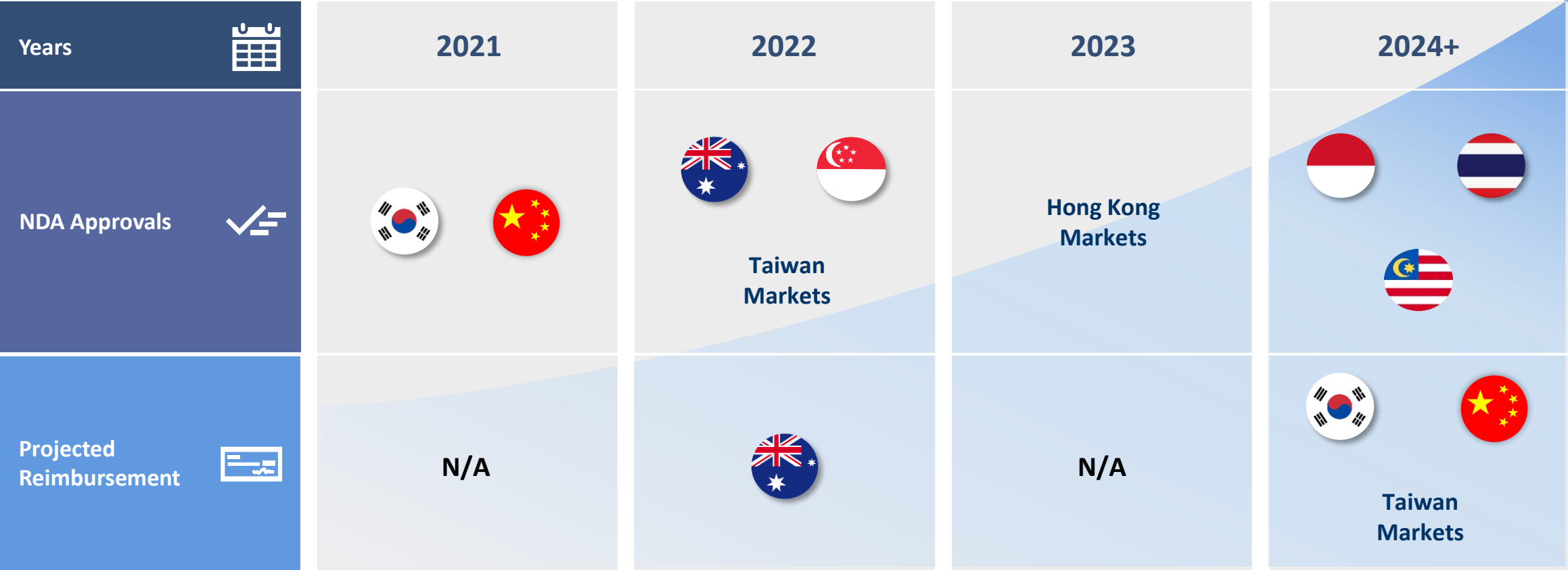


-  Commercialization strategy focuses on selection of **6 core stage I markets**
-  Initial focus is to **build Antengene presence** in the core markets
-  Ensure **successful commercial launch of XPOVIO®**
-  **Expand portfolio** in core markets and **expand Antengene presence** to other stage II ASEAN markets

Building XPOVIO® Launch Momentum with Regulatory Approvals Across Core Markets

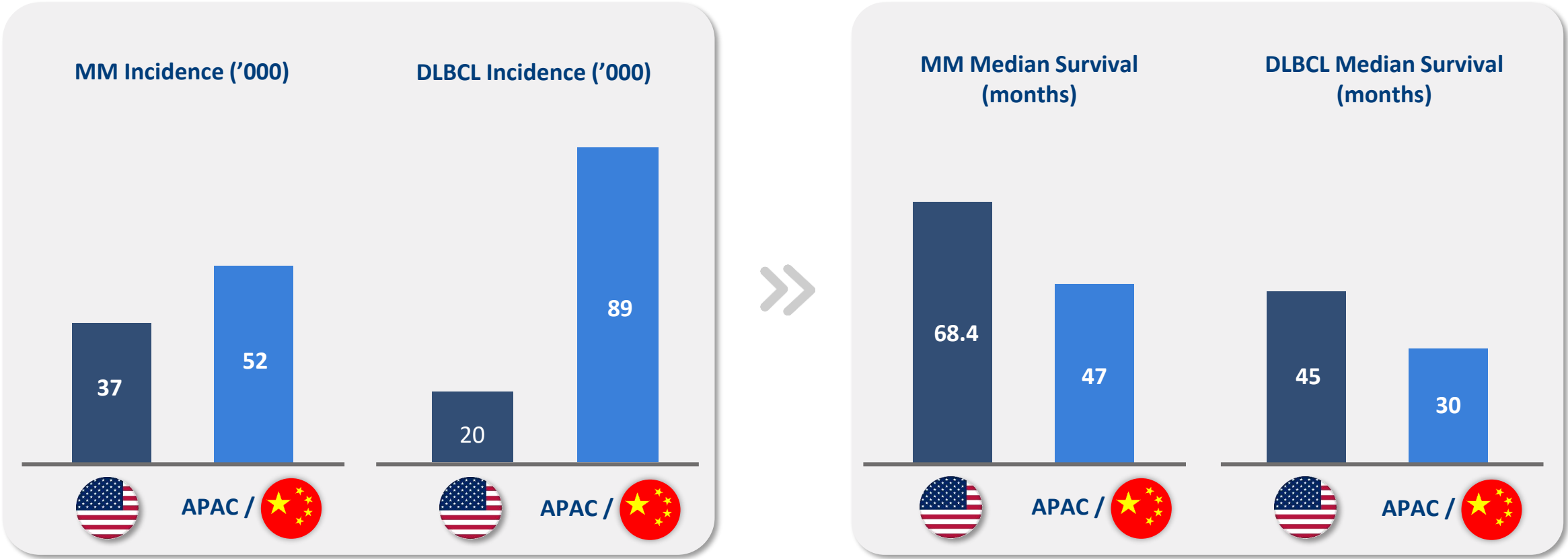


塞利尼索片 20mg
希维奥® XPOVIO®
(selinexor)



Significant Opportunity for XPOVIO® with High Potential for Future Growth

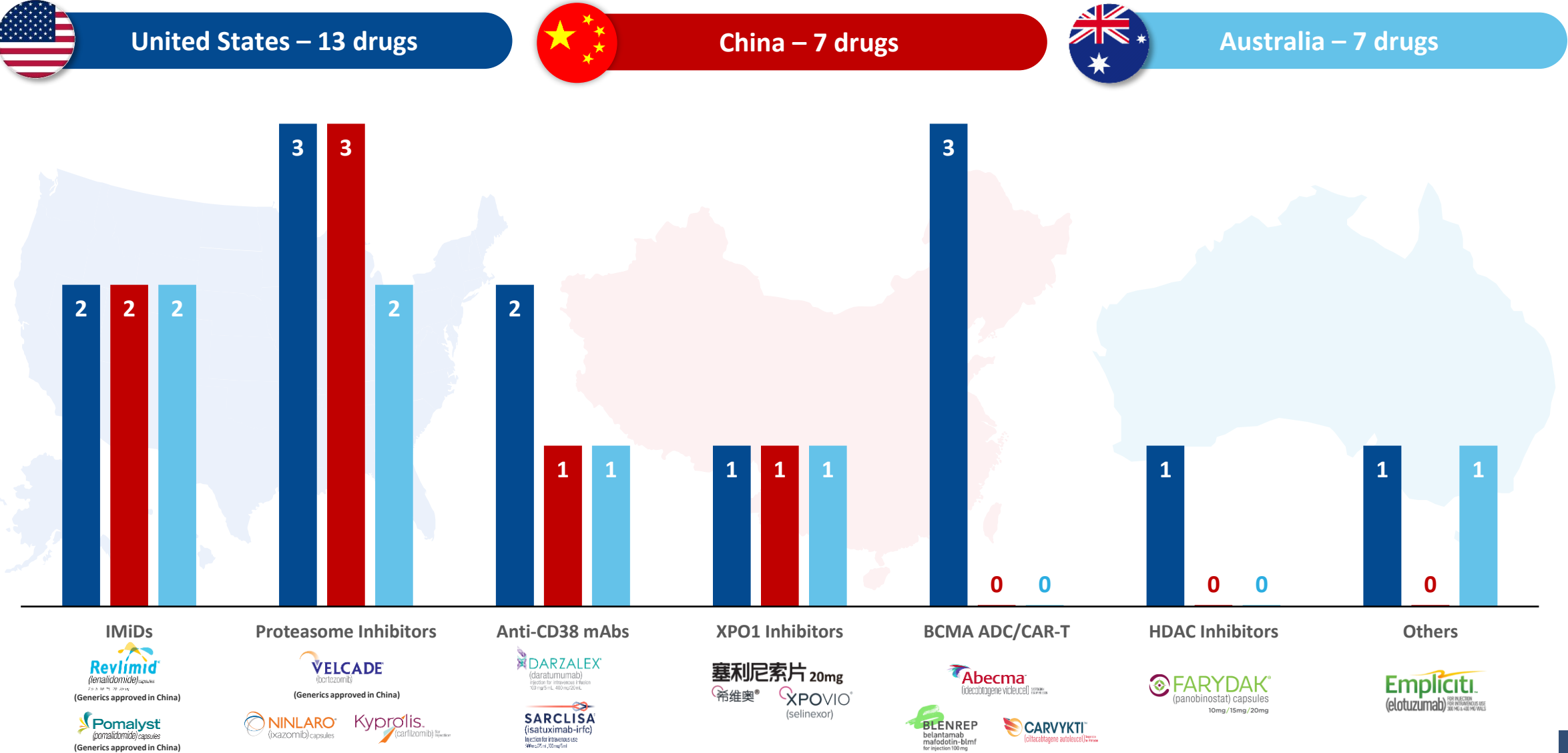
■ Tremendous commercial opportunities in selected APAC markets* relative to US in key disease areas such as multiple myeloma (MM) and diffuse large B-cell lymphoma (DLBCL)



*APAC region includes Hong Kong, Macao, Taiwan, South East Asia, South Korea and Australia

Source: Frost & Sullivan Analysis

Fewer Multiple Myeloma Medicines Approved in China/Reimbursed in Australia Compared to the US – Launching with Less Competition Outside the US



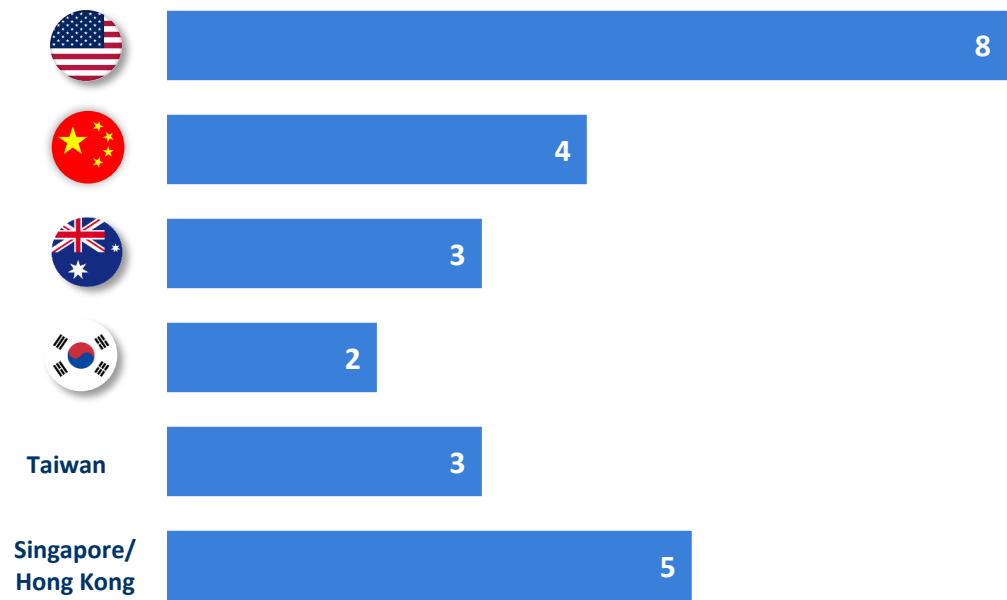
Source: Kantar Health Market Research Report, APAC July 2021, IQVIA Sales data

Limited Combination Regimens Available across APAC Providing a Compelling and Differentiated Launch Opportunity for XPOVIO® in R/R MM and R/R DLBCL

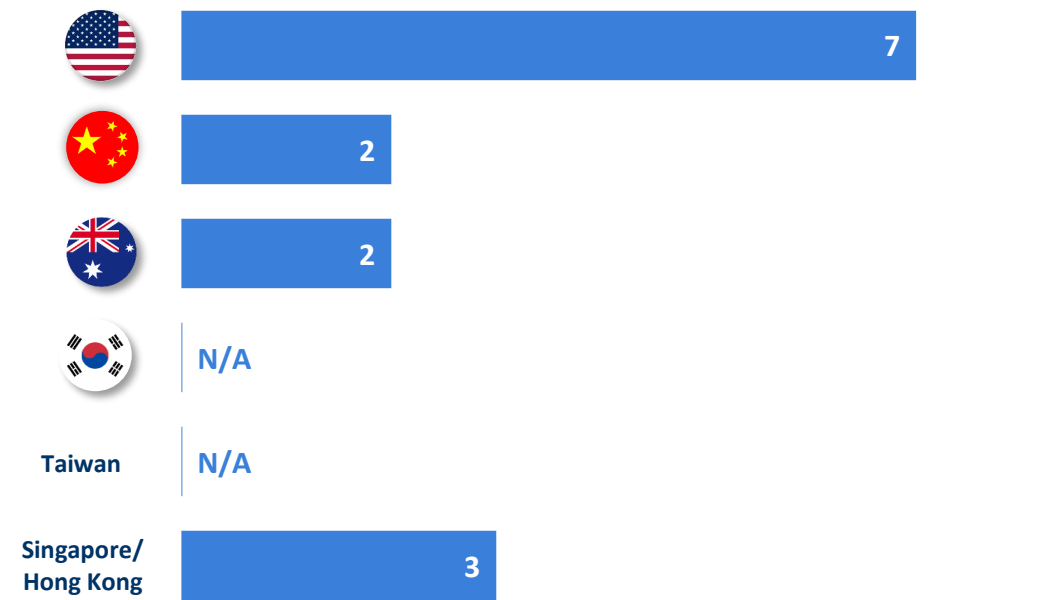


- With limited availability, hematologists are highly motivated to provide patients novel treatment options and MOAs
 - Increasing desire to utilize triplet regimens in R/R MM and provide additional non-chemo based treatments for R/R DLBCL

Number of Triplet Regimens Accessible in 2L and 3L MM



Number of Novel Therapies Accessible in R/R DLBCL



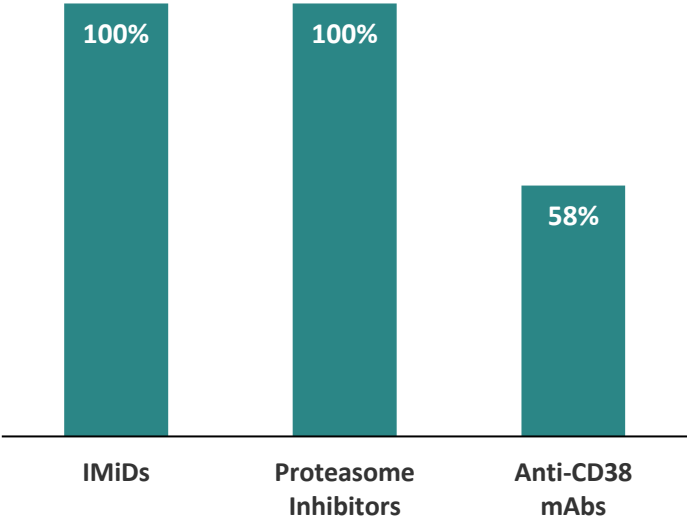
Source: Kantar Health Market Research Report, APAC July 2021, IQVIA Sales data

Initial Observations for XPOVIO® Launch in China Market – XPOVIO® Being Prescribed in Earlier Lines of Therapy in a Range of Combination Regimens

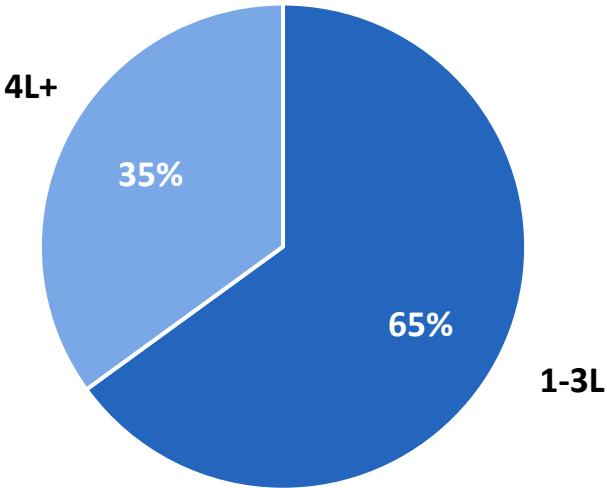


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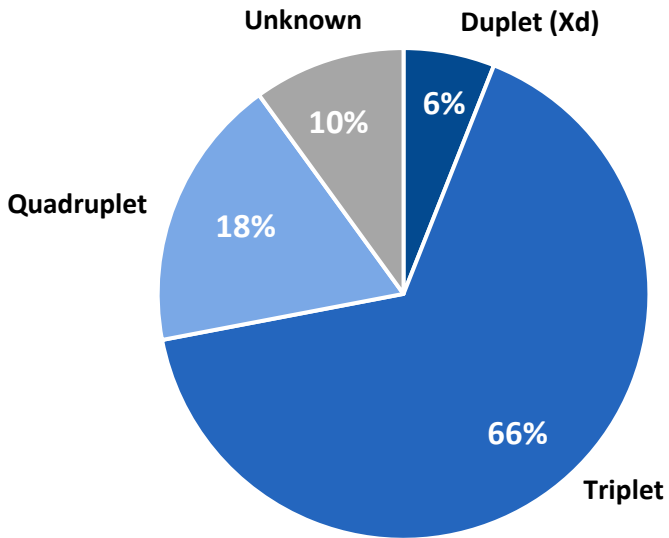
By 3L, Most Patients are Exposed to IMiDs, Proteasome Inhibitors, and anti-CD38 mAbs



Usage and Lines of Therapy Amongst XPOVIO® Patients



Treatment Regimen Among Prescribed Patients



Physician Testimonials Highlighting XPOVIO’s Differentiated Profile

“**MARCH, BOSTON** trial data indicates that Selinexor combo regimens bring more innovative therapeutic options and better treatment outcomes for relapsed/refractory, multidrug resistance, metastasis and/or **high-risk MM** patients.”

KOL, Dr. Jun Ma, Chief Supervisor of CSCO, Harbin Hematology and Oncology Institute

“Selinexor is more convenient and likely leads to higher compliance because it is an **oral regimen**. The efficacy of Selinexor is proven in a number of clinical trials. Besides being used as a monotherapy, Selinexor could also be **combined with a number of drugs such as chemo, target therapy, I/O, etc.**”

KOL, Dr. Zhiming Li, Sun Yat-sen University Cancer Center

Reimbursement Timelines

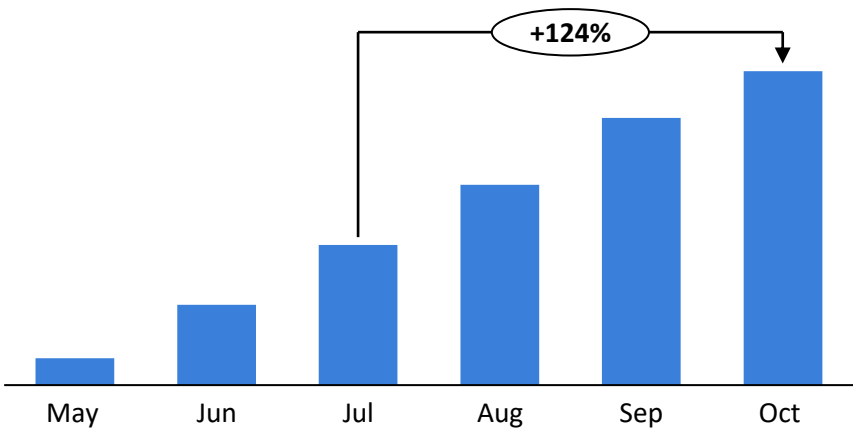


Excellent Launch Trajectory



Australia

- Total number of XPOVIO® treated patients **doubled in 3 months** (between July to October)
- First multiple myeloma indication (Xd regimen) **included for reimbursement** on 1st September
 - XPOVIO® achieved that in **180 days** ; whereas oncology medicines are listed in **496 days** on average
- Xd achieved **>50% new patient share** of available penta-refractory patients
- Reimbursement of XVd regimen anticipated **in H2 2023**



Other Asia Pacific Markets

- Reimbursement anticipated in Taiwan and South Korea in **2024**
- Building of KOL advocacy and XPOVIO® experience:
 - **>250 patients** treated with XPOVIO® via pre approval access program
 - Pre-reimbursement **Patient Familiarization Program** activated
- ASEAN markets expansion commencing with **NDA submissions in Thailand, Malaysia & Indonesia in 2022**



Continue to execute on launch strategy across key markets driving share uptake and duration



Build on positive XPOVIO® experience and KOL Advocacy



Secure reimbursement of Xd/XVd indications across APAC markets

- Australia XVd H2 2023
- Singapore CDL Q1 2023
- Hong Kong DTC/DAC H2 2023
- Taiwan XVd/DLBCL 2024



Continue to build commercial capabilities

- Headcount gated to reimbursement milestones



Portfolio and Geographic Expansion into ASEAN markets



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Q&A SESSION



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**CLOSING REMARKS:
BUILDING A LEADING BIOPHARMACEUTICAL COMPANY**

Steady Stream of Catalysts Continue to Drive Value for Investors

Focused on Execution and Key Priorities to Drive Value for Investors in 2023



Continued Revenue Generation Across China and APAC markets

- Starting with 2 disease areas with multiple indication expansion / untapped opportunities with an only-in-class asset in unique markets



Broad and Deep Pipeline of Differentiated Global Rights Assets

- 10 global rights assets with highly-differentiated, combinational and synergistic mechanism of action with series of upcoming data read outs



Forming Value Creating and Synergistic Partnerships

- Continued BD discussions on assets, clinical collaborations, in/out-licensing and value-creating partnerships



Efficiently Utilizing Cash Provided by Our Strong Base of Global Shareholders

- RMB2,151mm of cash and bank balances as of 30th June 2022



ANTENGENE

ANTENGENE CORPORATION LIMITED
(SEHK: 6996.HK)

NOVEMBER 2022

THANK YOU

TREATING PATIENTS BEYOND BORDERS