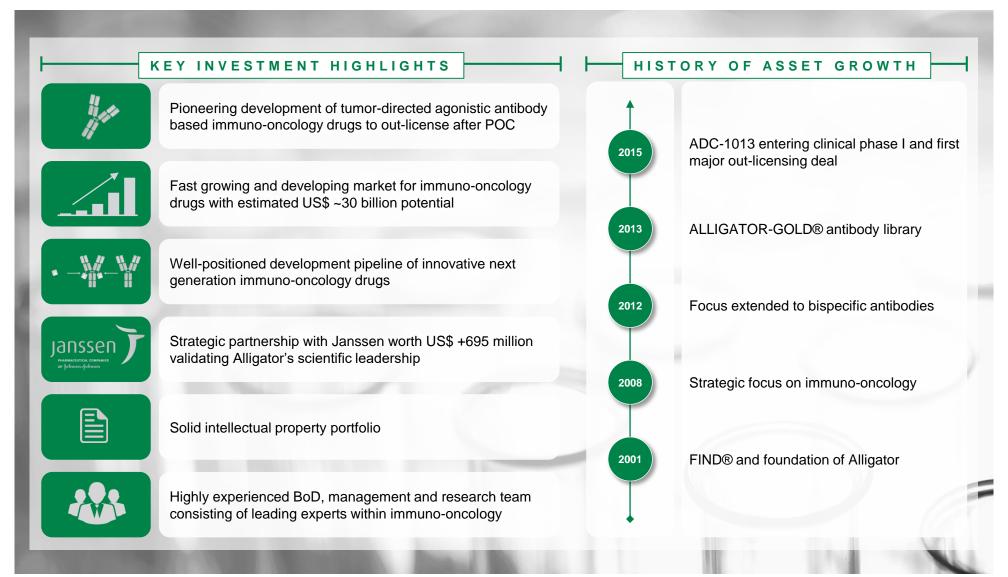
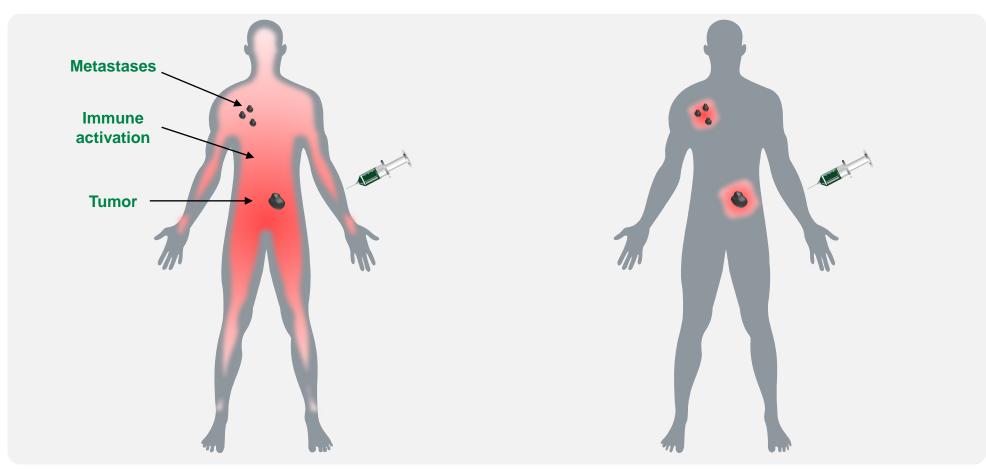


Alligator Bioscience in brief





Introduction to tumor-directed immuno-oncology



SYSTEMIC IMMUNOTHERAPY

Systemic administration of immunotherapeutic drugs, for instance by intravenous injection, results in a general activation of the immune system, which may lead to severe side effects

TUMOR-DIRECTED IMMUNOTHERAPY

Selective activation of tumor-specific immune cells. This results in an immune-mediated attack of tumors and metastases throughout the body with limited toxicity.



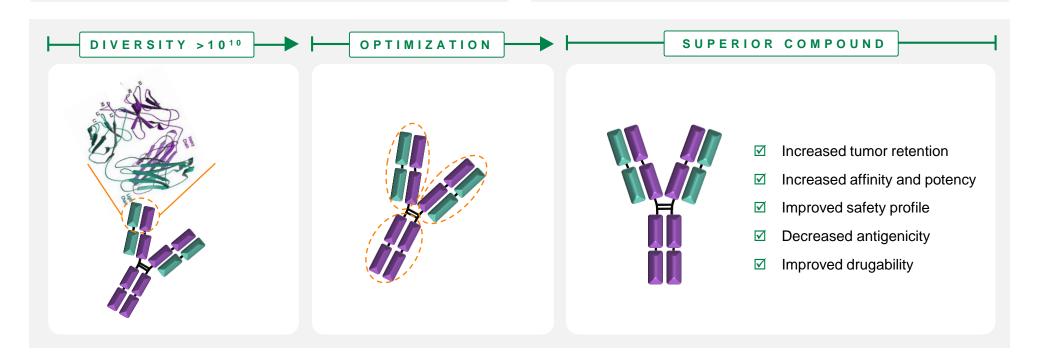
Fully integrated technology platforms

ALLIGATOR-GOLD®

ALLIGATOR-GOLD® is a fully human single-chain library with large diversity

FIND®

The **FIND**® technology is used to optimize antibody or protein characteristics



Technology platforms will enable Alligator to continue to develop innovative antibodies for years to come



Extensive collaboration with distinguished immuno-oncologists

Partners and major deliverables

Stanford University	Navarra University	Lund University	Uppsala University	University of Manchester	EU/TIMCC	The Royal Institute of Technology
Pre-clinical In-vivo proof of concept for the target combination in tumor models supporting ADC-1015 and research programs	 In-vitro and in-vivo characterization of Alligator compounds supporting ADC- 1016 and research programs 	 DC and T-cell assays used for characterization of ADC-1013 Next generation sequencing methods for improved selection protocols 	 In-vivo proof of concept (ADC- 1013) Supporting research programs 	Characterization of tumor targeting antibodies supporting ADC-1016 and research programs Characterization of tumor targeting and testing antibodies supporting ADC-1016 and research programs	 Academic network composed of 6 leading groups from European Universities Aims to characterize the tumor infiltrating myeloid cell compartment to improve cancer treatment 	Identification and characterization of novel immune modulating targets



HOLBROOK KOHRT MD, PhD 1977-2016 Expert in preclinical and clinical immuno-oncology combinations



Expert in preclinical and clinical tumor-directed and systemic immunotherapy

IGNACIO

MELERO

MD, PhD,

Professor



UPPSALA UNIVERSITET

THOMAS TÖTTERMAN MD, PhD, Professor

Pioneer in the field of tumor-directed immunotherapy



MANCHESTER

STERN PhD. Professor Expert in tumor targets for cancer immunotherapy

PETER L.



MD, PhD, Professor Expert in clinical immuno-



JEFFREY

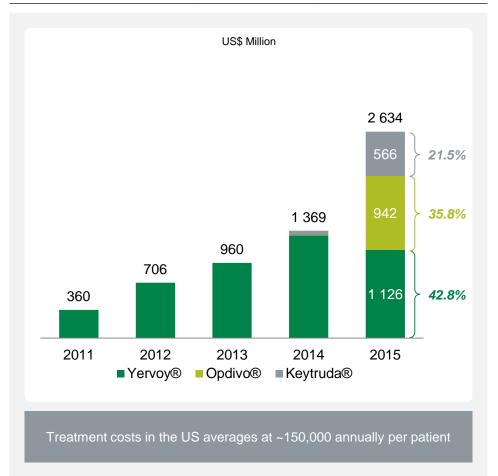
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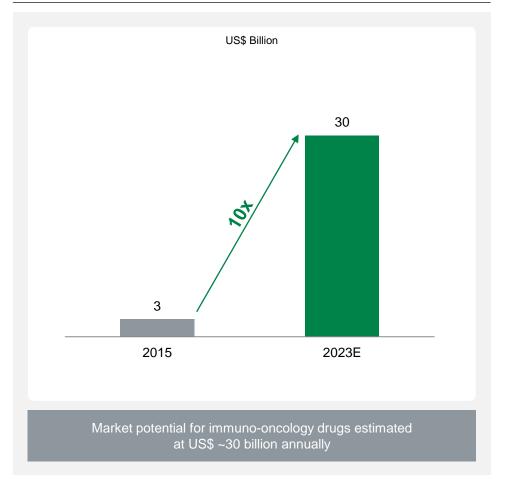


Rapid development within the field of immuno-oncology

Sales of existing immuno-oncology treatments





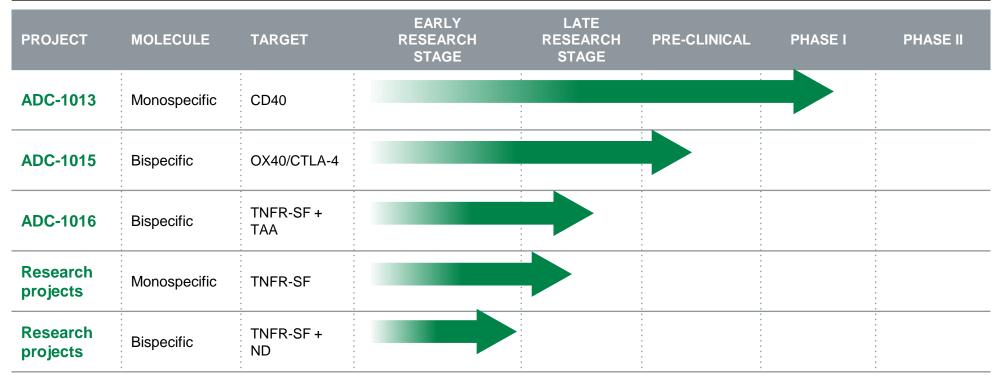


Market consensus estimates the I/O market to hold the largest upside potential within the global pharmaceutical market



Well-positioned drug development pipeline

Development pipeline focusing on agonistic monospecific and bispecific antibodies targeting TNFR-SF



TNFR-SF: Tumor Necrosis Factor Receptor-Superfamily

ND: Not Disclosed

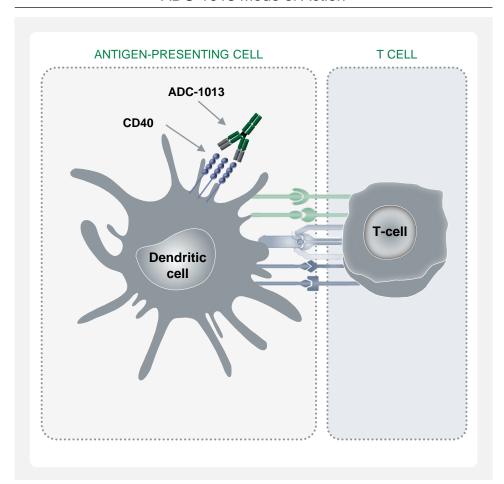
All product candidates suitable for combination therapy with other I-O drugs, e.g. anti-PD-1 and anti-PD-L1

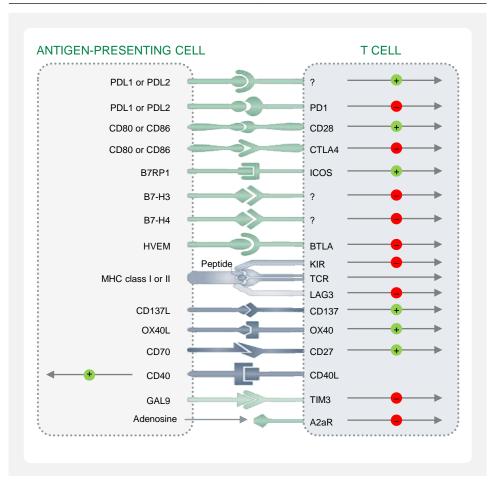


ADC-1013: CD40 is a key immuno-oncology target

ADC-1013 Mode of Action

Co-stimulating receptors





CD40 is the only defined receptor that selectively activates the antigen-presenting cell and is a highly promising target for combination with T-cell activating antibodies such as PD-1 and CTLA-4



ADC-1013: One of only four CD40 projects in clinical phase

Selection of antibody based immuno-oncology drugs in clinical development

Roche (Genentech) atezolizumab NSCLC, HSN, bladder, renal, breast III PD-L1 AstraZeneca (Medimmune) durvalumab NSCLC, HSN, bladder III PD-L1 Pitzer & MerckSerono avelumab MSCLC, Gli, bladder III PD-L1 Pitzer & MerckSerono avelumab NSCLC, Gli, bladder III PD-L1 Pitzer & MerckSerono avelumab NSCLC, Gli, bladder III PD-L1 Viral Carlot pidlitzumab BCL, NHL, melanoma, CRC III PD-1 Novarits PDR-001 NSCLC, CRC, Gl. melanoma II PD-1 Jangsu Hengrui Medicine (Incyte) INCSHR-1210 Solid tumors II PD-1 AstraZeneca (Medimmune) MEDI-6680 BCL, NHL, melanoma, CRC II PD-1 AstraZeneca (Medimmune) MEDI-6689 Breast, prostate, bymphoma II CD137 Novarits LAG-525 Solid tumors II LAG3 Bristol-Myers Squibb BMS-986156 Solid tumors II CD27 Alligator Bioscience ADC-1013	Company	Drug	Indication	Phase	Target
Pfizer & AstraZeneca tremelimumab Mesothelloma, NSCLC, bladder III CTLA-4 Pfizer & MerckSerono avelumab NSCLC, Gl, bladder III PD-1 Prima Blomed (Immutep) IMP-321 Breast III LAG3 Cure Tech pidilizumab BGL, NHL, melanoma, CRC II PD-1 Novartis PDR-001 NSCLC, CRC, GI, melanoma II PD-1 Jaingsu Hengrui Medicine (Incyte) INCSHR-1210 Solid tumors II PD-1 AstraZeneca (Medimmune) MEDI-0880 BCL, NHL, melanoma, CRC II PD-1 AstraZeneca (Medimmune) MEDI-0880 BCL, NHL, melanoma, CRC II PD-1 AstraZeneca (Medimmune) MEDI-0880 BCL, NHL, melanoma, CRC II PD-1 AstraZeneca (Medimmune) MEDI-0880 BCL, NHL, melanoma, CRC II PD-1 AstraZeneca (Medimmune) MEDI-0880 BCL, NHL, melanoma, CRC II PD-1 AstraZeneca (Medimmune) MEDI-0880 BCL, NHL, melanoma, CRC II CD40 Bristol-Myers Squibb	Roche (Genentech)	atezolizumab	NSCLC, bladder, renal, breast	III	PD-L1
Pfizer & MerckSerono avelumab NSCLC, GI, bladder III PD-L1 Prima Biomed (Immutep) IMP-321 Breast III LAG3 Cure Tech pidilizumab BCL, NHL, melanoma, CRC II PD-1 Novartis PDR-001 NSCLC, CRC, GI, melanoma II PD-1 Jangsu Hengrui Medicine (Incyte) INCSHR-1210 Solid tumors II PD-1 AstraZeneca (Medimmune) MEDI-680 BCL, NHL, melanoma, CRC II PD-1 AstraZeneca (Medimmune) MEDI-6469 Breast, prostate, lymphoma II CV40 AgonOx (AstraZeneca) MEDI-6469 Breast, prostate, lymphoma II CD437 Bristol-Myers Squibb urelumab Solid tumors II LDG3 Bristol-Myers Squibb BMS-986156 Solid tumors II CD27 Alligator Bioscience ADC-1013 Solid tumors I CD40 Apexigen APX-005M Lymphoma I CD40 Roche RG-7876 Solid tumors I CD40	AstraZeneca (MedImmune)	durvalumab	NSCLC, H&N, bladder	III	PD-L1
Prima Biomed (Immutep) IMP-321 Breast III LAG3 CureTech pidilizumab BCL, NHL, melanoma, CRC II PD-1 Novariis PDR-001 NSCLC, CRC, GI, melanoma II PD-1 Jiangsu Hengrui Medicine (Incyte) INCSHR-1210 Solid tumors II PD-1 AstraZeneca (Medimmune) MEDI-0680 BCL, NHL, melanoma, CRC II PD-1 AgonOx (AstraZeneca) MEDI-0680 BCL, NHL, melanoma, CRC II PD-1 AgonOx (AstraZeneca) MEDI-0680 BCL, NHL, melanoma, CRC II PD-1 AgonOx (AstraZeneca) MEDI-0680 BCL, NHL, melanoma, CRC II DX-40 Bristol-Myers Squibb urelumab Solid tumors II CD40 Bristol-Myers Squibb BMS-986156 Solid tumors II CD27 Alligator Bioscience ADC-1013 Solid tumors I CD40 Apexigen APX-005M Lymphoma I CD40 Roche RG-7876 Solid tumors I CD40 <td>Pfizer & AstraZeneca</td> <td>tremelimumab</td> <td>Mesothelioma, NSCLC, bladder</td> <td>III</td> <td>CTLA-4</td>	Pfizer & AstraZeneca	tremelimumab	Mesothelioma, NSCLC, bladder	III	CTLA-4
CureTech pidilizumab BCL, NHL, melanoma, CRC II PD-1 Novartis PDR-001 NSCLC, CRC, GI, melanoma II PD-1 Jiangsu Hengrui Medicine (Incyte) INCSHR-1210 Solid tumors II PD-1 AstraZeneca (Medimmune) MEDI-0680 BCL, NHL, melanoma, CRC II PD-1 AsgonCx (AstraZeneca) MEDI-0689 Breast, prostate, lymphoma II CX40 Bristol-Myers Squibb urelumab Solid tumors II CD137 Novartis LAG-525 Solid tumors II LAG3 Bristol-Myers Squibb BMS-986156 Solid tumors II CD27 Alligator Bioscience ADC-1013 Solid tumors II CD27 Alligator Bioscience ADC-1013 Solid tumors I CD40 Apexigen APX-005M Lymphoma I CD40 Roche RG-7876 Solid tumors I CD40 Bristol-Myers Squibb BMS-986016 Solid tumors I LAG3 Nova	Pfizer & MerckSerono	avelumab	NSCLC, GI, bladder	III	PD-L1
Novartis PDR-001 NSCLC, CRC, GI, melanoma II PD-1 Jiangsu Hengrui Medicine (Incyte) INCSHR-1210 Solid tumors II PD-1 AstraZeneca (Medimmune) MEDI-680 BCL, NHL, melanoma, CRC II PD-1 AgonOx (AstraZeneca) MEDI-6469 Breast, prostate, lymphoma II OX40 Bristol-Myers Squibb urelumab Solid tumors and lymphoma II CD137 Novartis LAG-325 Solid tumors II GITR Celldex variilumab Solid tumors II CD27 Alligator Bioscience ADC-1013 Solid tumors I CD40 Apexigen APX-005M Lymphoma I CD40 Reattle Genetics SEA-CD40 Solid tumors I CD40 Seattle Genetics SEA-CD40 Solid tumors I LAG3 Bristol-Myers Squibb BMS-986016 Solid tumors I CD40 Bristol-Myers Squibb MS-986016 Solid tumors and lymphoma I LAG3	Prima Biomed (Immutep)	IMP-321	Breast	III	LAG3
Jiangsu Hengrui Medicine (Incyte) INCSHR-1210 Solid tumors II PD-1	CureTech	pidilizumab	BCL, NHL, melanoma, CRC	II	PD-1
AstraZeneca (MedImmune) MEDI-0680 BCL, NHL, melanoma, CRC II PD-1 AgonOx (AstraZeneca) MEDI-6469 Breast, prostate, lymphoma II OX40 Bristol-Myers Squibb urelumab Solid tumors and lymphoma II CD137 Novartis LAG-525 Solid tumors II LAG3 Bristol-Myers Squibb BMS-986156 Solid tumors II CD27 Celldex varlilumab Solid tumors II CD27 Alligator Bioscience ADC-1013 Solid tumors I CD40 Apexigen APX-005M Lymphoma I CD40 Roche RG-7876 Solid tumors I CD40 Bristol-Myers Squibb BMS-986016 Solid tumors I CD40 Bristol-Myers Squibb BMS-986016 Solid tumors, lymphoma and leukemia I LAG3 Novartis (Immutep) IMP-701 Cancer I LAG3 Merick MK-4166 Solid tumors and lymphoma I CD137 Merick </td <td>Novartis</td> <td>PDR-001</td> <td>NSCLC, CRC, GI, melanoma</td> <td>II</td> <td>PD-1</td>	Novartis	PDR-001	NSCLC, CRC, GI, melanoma	II	PD-1
AgonOx (AstraZeneca) MEDI-6469 Breast, prostate, lymphoma II OX40 Bristol-Myers Squibb urelumab Solid tumors II LAG3 Novartis LAG-525 Solid tumors II LAG3 Bristol-Myers Squibb BMS-986156 Solid tumors II GITR Celidex variliumab Solid tumors II CD27 Alligator Bioscience ADC-1013 Solid tumors I CD40 Apexigen APX-005M Lymphoma I CD40 Apexigen APX-005M Lymphoma I CD40 Seattle Genetics SEA-CD40 Solid tumors I CD40 Bristol-Myers Squibb BMS-986016 Solid tumors I CD40 Bristol-Myers Squibb BMS-986016 Solid tumors, lymphoma and leukemia I LAG3 Novariis (Immutep) IMP-701 Cancer I LAG3 Pfizer PFE-1, PF-05082566 Solid tumors I GITR AstraZeneca MEDI-1873	Jiangsu Hengrui Medicine (Incyte)	INCSHR-1210	Solid tumors	II	PD-1
Bristol-Myers Squibb urelumab Solid tumors and lymphoma II CD137 Novartis LAG-525 Solid tumors II LAG3 Bristol-Myers Squibb BMS-986156 Solid tumors II GITR Celldex variliumab Solid tumors II CD27 Alligator Bioscience ADC-1013 Solid tumors I CD40 Apexigen APX-005M Lymphoma I CD40 Roche RG-7876 Solid tumors I CD40 Seattle Genetics SEA-CD40 Solid tumors I CD40 Bristol-Myers Squibb BMS-986016 Solid tumors, lymphoma and leukemia I LAG3 Novartis (Immutep) IMP-701 Cancer I LAG3 Novartis (Immutep) IMP-701 Cancer I CD137 Merck MK-4166 Solid tumors I GITR AstraZeneca MED1-1873 Solid tumors I GITR AstraZeneca MED1-6383 Solid tumors	AstraZeneca (MedImmune)	MEDI-0680	BCL, NHL, melanoma, CRC	II	PD-1
Novartis LAG-525 Solid tumors II LAG3 Bristol-Myers Squibb BMS-986156 Solid tumors II GITR Celldex varlilumab Solid tumors II CD27 Alligator Bioscience ADC-1013 Solid tumors I CD40 Apexigen APX-005M Lymphoma I CD40 Roche RG-7876 Solid tumors I CD40 Seattle Genetics SEA-CD40 Solid tumors I CD40 Bristol-Myers Squibb BMS-986016 Solid tumors, lymphoma and leukemia I LAG3 Novarits (Immutep) IMP-701 Cancer I LAG3 Nimuter PFE-1, PF-05082566 Solid tumors and lymphoma I CD137 Merck MK-4166 Solid tumors I GITR AstraZeneca MEDI-1873 Solid tumors I GITR AstraZeneca MEDI-6383 Solid tumors I OX40 Roche MOXR-0916 Cancer I	AgonOx (AstraZeneca)	MEDI-6469	Breast, prostate, lymphoma	II	OX40
Bristol-Myers Squibb BMS-986156 Solid tumors II GITR Celldex variliumab Solid tumors II CD27 Alligator Bioscience ADC-1013 Solid tumors I CD40 Apexigen APX-005M Lymphoma I CD40 Roche RG-7876 Solid tumors I CD40 Seattle Genetics SEA-CD40 Solid tumors I CD40 Bristol-Myers Squibb BMS-986016 Solid tumors I CD40 Bristol-Myers Squibb BMS-986016 Solid tumors, lymphoma and leukemia I LAG3 Novartis (Immutep) IMP-701 Cancer I LAG3 Pfizer PFE-1, PF-05082566 Solid tumors and lymphoma I CD137 Merck MK-4166 Solid tumors I GITR AstraZeneca MEDI-1873 Solid tumors I GITR AstraZeneca MEDI-6383 Solid tumors and melanoma I GITR Roche MOXR-0916 Cance	Bristol-Myers Squibb	urelumab	Solid tumors and lymphoma	II	CD137
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Seattle Genetics SEA-CD40 Solid tumors I CD40 Bristol-Myers Squibb BMS-986016 Solid tumors, lymphoma and leukemia I LAG3 Novartis (Immutep) IMP-701 Cancer I LAG3 Pfizer PFE-1, PF-05082566 Solid tumors and lymphoma I CD137 Merck MK-4166 Solid tumors I GITR AstraZeneca MEDI-1873 Solid tumors I GITR GITR Inc TRX-518 Solid tumors and melanoma I GITR AstraZeneca MEDI-6383 Solid tumors I OX40 Roche MOXR-0916 Cancer I OX40 AstraZeneca MEDI-0562 Cancer I OX40 GlaxoSmithKline GSK-3174998 Cancer I OX40 Pfizer PF-04518600 Cancer I OX40 Bristol-Myers Squibb MDX-1105 Solid tumors, BCL I PD-L1 Regeneron REGN-2810 Solid tumors, BCL	Apexigen	APX-005M	Lymphoma	1	CD40
Bristol-Myers Squibb BMS-986016 Solid tumors, lymphoma and leukemia I LAG3 Novartis (Immutep) IMP-701 Cancer I LAG3 Pfizer PFE-1, PF-05082566 Solid tumors and lymphoma I CD137 Merck MK-4166 Solid tumors I GITR AstraZeneca MEDI-1873 Solid tumors I GITR GITR Inc TRX-518 Solid tumors and melanoma I GITR AstraZeneca MEDI-6383 Solid tumors I OX40 Roche MOXR-0916 Cancer I OX40 AstraZeneca MEDI-0562 Cancer I OX40 AstraZeneca MEDI-0562 Cancer I OX40 GlaxoSmithKline GSK-3174998 Cancer I OX40 Pfizer PF-04518600 Cancer I OX40 Bristol-Myers Squibb MDX-1105 Solid tumors I PD-L1 Regeneron REGN-2810 Solid tumors, BCL I	Roche	RG-7876	Solid tumors	1	CD40
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AstraZeneca MEDI-1873 Solid tumors I GITR GITR Inc TRX-518 Solid tumors and melanoma I GITR AstraZeneca MEDI-6383 Solid tumors I OX40 Roche MOXR-0916 Cancer I OX40 AstraZeneca MEDI-0562 Cancer I OX40 GlaxoSmithKline GSK-3174998 Cancer I OX40 Pfizer PF-04518600 Cancer I OX40 Bristol-Myers Squibb MDX-1105 Solid tumors I PD-L1 Regeneron REGN-2810 Solid tumors, BCL I PD-1 BeiGene BGB-A317 Cancer I PD-1	Pfizer	PFE-1, PF-05082566	Solid tumors and lymphoma	I	CD137
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AstraZeneca MEDI-6383 Solid tumors I OX40 Roche MOXR-0916 Cancer I OX40 AstraZeneca MEDI-0562 Cancer I OX40 GlaxoSmithKline GSK-3174998 Cancer I OX40 Pfizer PF-04518600 Cancer I OX40 Bristol-Myers Squibb MDX-1105 Solid tumors I PD-L1 Regeneron REGN-2810 Solid tumors, BCL I PD-1 BeiGene BGB-A317 Cancer I PD-1	AstraZeneca	MEDI-1873	Solid tumors	1	GITR
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AstraZeneca MEDI-0562 Cancer I OX40 GlaxoSmithKline GSK-3174998 Cancer I OX40 Pfizer PF-04518600 Cancer I OX40 Bristol-Myers Squibb MDX-1105 Solid tumors I PD-L1 Regeneron REGN-2810 Solid tumors, BCL I PD-1 BeiGene BGB-A317 Cancer I PD-1	AstraZeneca	MEDI-6383	Solid tumors	I I	OX40
GlaxoSmithKline GSK-3174998 Cancer I OX40 Pfizer PF-04518600 Cancer I OX40 Bristol-Myers Squibb MDX-1105 Solid tumors I PD-L1 Regeneron REGN-2810 Solid tumors, BCL I PD-1 BeiGene BGB-A317 Cancer I PD-1	Roche	MOXR-0916	Cancer	1	OX40
Pfizer PF-04518600 Cancer I OX40 Bristol-Myers Squibb MDX-1105 Solid tumors I PD-L1 Regeneron REGN-2810 Solid tumors, BCL I PD-1 BeiGene BGB-A317 Cancer I PD-1	AstraZeneca	MEDI-0562	Cancer	1	OX40
Bristol-Myers Squibb MDX-1105 Solid tumors I PD-L1 Regeneron REGN-2810 Solid tumors, BCL I PD-1 BeiGene BGB-A317 Cancer I PD-1	GlaxoSmithKline	GSK-3174998	Cancer	1	OX40
Regeneron REGN-2810 Solid tumors, BCL I PD-1 BeiGene BGB-A317 Cancer I PD-1	Pfizer	PF-04518600	Cancer	1	OX40
BeiGene BGB-A317 Cancer I PD-1	Bristol-Myers Squibb	MDX-1105	Solid tumors	1	PD-L1
	Regeneron	REGN-2810	Solid tumors, BCL	1	PD-1
GlaxoSmithKline (Amplimmune) AMP-224 Cancer I PD-1	BeiGene	BGB-A317	Cancer	I	PD-1
	GlaxoSmithKline (Amplimmune)	AMP-224	Cancer	I	PD-1

Comments

- Approx. 70 immuno-oncology drugs are currently in clinical development
- Extensive focus on first generation targets PD-1, CTLA-4 and PD-L1
- Four ongoing trials by commercial companies targeting the CD40 receptor, including Alligator's ADC-1013



ADC-1013: Partnership with Janssen validating Alligator's model

Partnership details for ADC-1013

Description of ongoing Phase I trial



Description of agreement

- Exclusive world-wide license to develop and commercialize ADC-1013
- Alligator continues as sponsor for the ongoing Phase I clinical trial including planned extension
- Future studies to be sponsored by Janssen

Royalty / Milestone potential

- Up-front payment plus additional milestones up to a potential total of US\$695 million
- Tiered royalties on worldwide net sales upon successful launch



- → 40 patients with advanced solid tumors
- 5 clinical sites in the UK. DK and SE



Dosing & administration

- FiH, first dose April 2015
- Dose escalation
- Intra-tumoral

Primary endpoint

Safety and tolerability

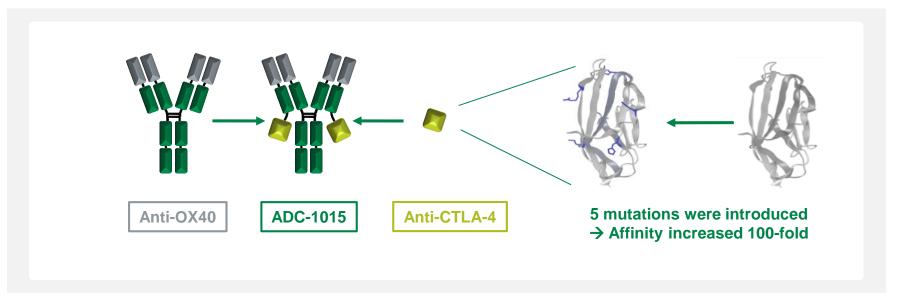
Secondary endpoints

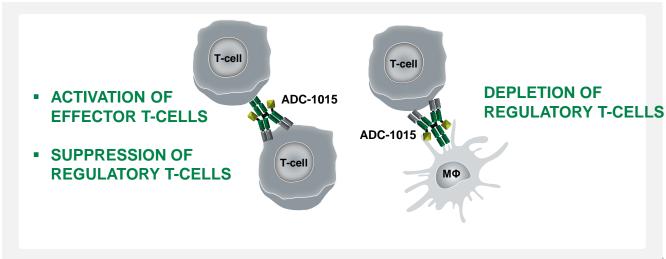
- Pharmacokinetics
- Immunogenicity
- Clinical efficacy

Highly attractive out-licensing terms with Janssen showing commitment through extension of clinical scope to systemic administration



ADC-1015: Biological rationale for dual binding OX40 and CTLA-4







Company strategy

Advance and broaden pipeline of agonistic tumor-directed bispecific immune activating product candidates

Extend in-house product development to late-stage clinical phase before entering into strategic partnerships

Development of next generation technology for antibody discovery and optimization

Facilitate an attractive research environment for intellectual human capital and increase research collaborations

