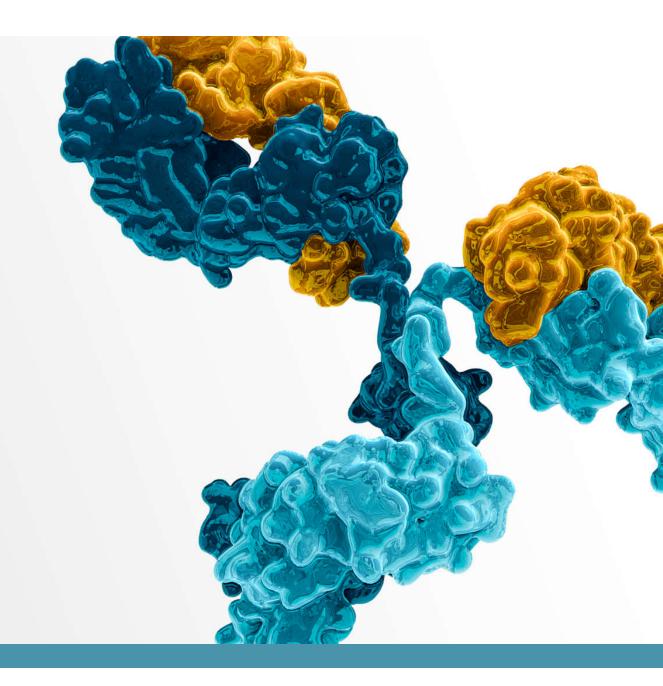
Merus

Closing In On Cancer

November 2020



Disclaimer

This presentation (including any oral commentary that accompanies this presentation) contains forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995. All statements contained in this presentation that do not relate to matters of historical fact should be considered forward-looking statements, including without limitation statements regarding the impact our Biclonics® platform can have on cancer, our product candidates' potential to treat certain types of tumors, the timing of regulatory filings and the timing and anticipated data read outs or results from our clinical trials and our collaborations. These forward-looking statements are based on management's current expectations. These statements are neither promises nor guarantees, but involve known and unknown risks, uncertainties and other important factors that may cause our actual results, performance or achievements to be materially different from any future results, performance or achievements expressed or implied by the forward-looking statements, including, but not limited to, the following: we have incurred significant losses, are not currently profitable and may never become profitable; our need for additional funding, which may not be available and which may require us to restrict out operations or require us to relinquish rights to our technologies or bispecific antibody candidates; potential delays in regulatory approval and impacts of the COVID-19 pandemic, which would impact our ability to commercialize our product candidates and affect our ability to generate revenue; the unproven approach to therapeutic intervention of our Biclonics®, and TriclonicsTM technology; our limited operating history; economic, political, regulatory and other risks involved with international operations; the lengthy and expensive process of clinical drug development, which has an uncertain outcome; the unpredictable nature of our early stage development efforts for

marketable drugs; potential adverse public reaction to the use of cancer immunotherapies; potential delays in enrollment of patients, which could affect the receipt of necessary regulatory approvals; failure to obtain marketing approval internationally; failure to compete successfully against other drug companies; potential competition from other drug companies if we fail to obtain orphan drug designation or maintain orphan drug exclusivity for our products; our reliance on third parties to conduct our clinical trials and the potential for those third parties to not perform satisfactorily; our reliance on third parties to manufacture our product candidates, which may delay, prevent or impair our development and commercialization efforts; protection of our proprietary technology; our patents being found invalid or unenforceable; potential lawsuits for infringement of third-party intellectual property; our ability to attract and retain key personnel; managing our growth could result in difficulties; and we may lose our foreign private issuer status and incur significant expenses as a result.

These and other important factors discussed under the caption "Risk Factors" in our in our Quarterly Report on Form 10-Q for the quarterly period ended September 30, 2020 filed with the Securities and Exchange Commission, or SEC, on November 5, 2020, and our other reports filed with the SEC, could cause actual results to differ materially from those indicated by the forward-looking statements made in this presentation. Any such forward-looking statements represent management's estimates as of the date of this presentation. While we may elect to update such forward-looking statements at some point in the future, we disclaim any obligation to do so, even if subsequent events cause our views to change.



Merus Overview





Established Clinical Pipeline

Clinical proof-of-concept with zenocutuzumab ("Zeno") in patients with neuregulin 1 (NRG-1) gene fusion (NRG1+) cancers



Near Term Data Readouts and Strong Cash Position into 2H 2022

Zeno NRG-1 phase 1/2 clinical data 2Q 2021



Leading Multispecific Antibody (Multiclonics®) Platforms

Common light chain format permits broad high throughput Biclonics® and Triclonics™ discovery

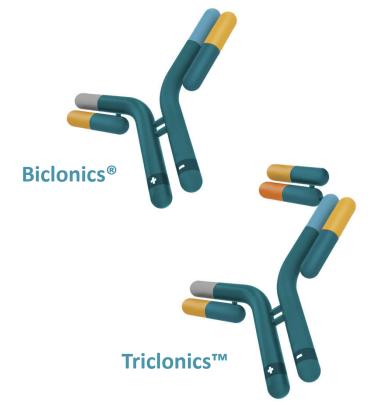


Multiple strategic collaborations and license agreements



Merus Multiclonics®

Bispecific and Trispecific Cancer Therapeutic Candidates in Human Monoclonal Antibody Formats



- Large-scale screening to select from up to 1,000s of candidates
 - Potential to identify best and new biological combinations
- Fully human IgG format allows for:
 - · Ease of manufacturing
 - Low immunogenicity risk
 - Predictable in vivo behavior
 - Durable, consistent half life
 - Potential for ADCC enhancement and Fc silencing
- Robust IP portfolio: patents covering Multiclonics® technology, including common light chain antibody generation and dimerization by charge engineering



Merus Clinical Pipeline

PROGRAM	BISPECIFIC TARGETS	INDICATION(S)	PRECLINICAL	PHASE 1	PHASE 1/2	STATUS
Zenocutuzumab (Zeno) (MCLA-128)	HER3 x HER2	NRG1+ Pancreatic NRG1+ Lung NRG1+ Other solid tumors				Phase 1/2 trial ongoing Clinical data and program update planned 2Q 2021
MCLA-158	Lgr5 x EGFR	Solid tumors				Phase 1 Trial Ongoing Update planned YE 2020
MCLA-145	CD137 x PD-L1	Solid tumors	(ex- U.S.)			Phase 1 Trial Ongoing
MCLA-129	EGFR x c-MET	Solid tumors	(China)			First patient planned to be dosed 2021
ONO-4685*	PD-1 x CD3	Autoimmune disease	ono			Phase 1 Trial Ongoing
*	Undisclosed	Autoimmune disease	ono			

^{*} If commercialized, Merus to receive royalties

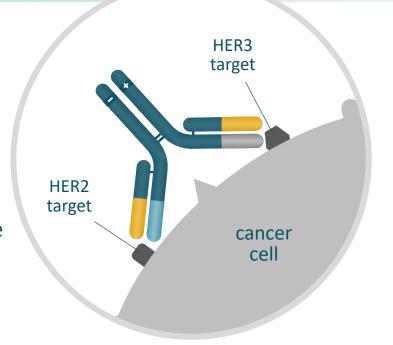


Promising early clinical activity in patients with NRG1+ cancers

Zenocutuzumab

MCLA-128 or "Zeno" HER2 x HER3 bispecific

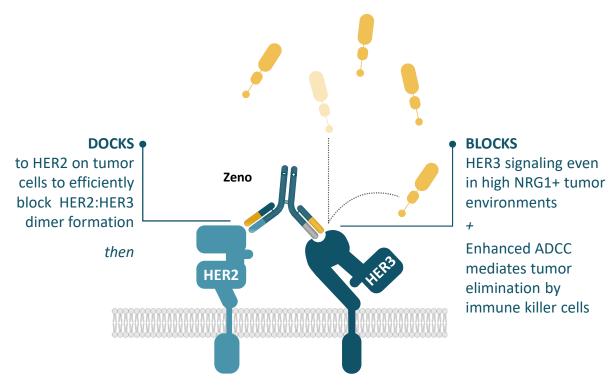
- Significant unmet need in previously treated pancreatic and non-small cell lung cancers
- NRG-1 gene fusions (NRG1+) are rare genetic events occurring in lung, pancreatic and other solid tumors
- Unique DOCK & BLOCK® mechanism of Zeno potently inhibits NRG1+-driven tumor growth
- Enhanced ADCC mediates tumor elimination by immune effector cells
- eNRGy Trial enrolling and Early Access Program ongoing
- Clinical data and program update expected 2Q 2021



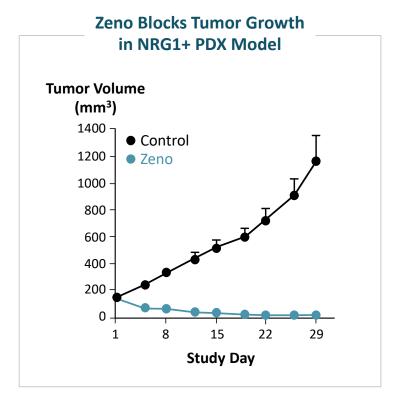


Zeno DOCK & BLOCK® Mechanism of Action

Uniquely Suited to Target NRG1+ Cancers



Zeno blocks tumor cell growth and survival driven by HER3 ligands, including neuregulin (NRG-1) and NRG-1 gene fusions (NRG1+)





Zeno Safety Profile for Single Agent Use

Safety Data in Over 100 Patients in Phase 1/2 Trials



Safety and Tolerability in Phase 1/2 Trial

OVER 100 PATIENTS EVALUATED*

Zeno Dosing: 750 mg ranging from q1w-q3w

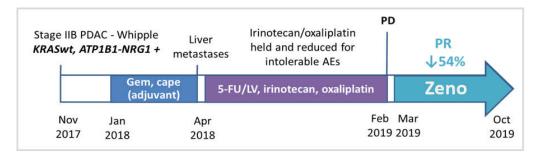
- Single agent well tolerated
- Low risk for immunogenicity
- Most AEs were grade 1-2

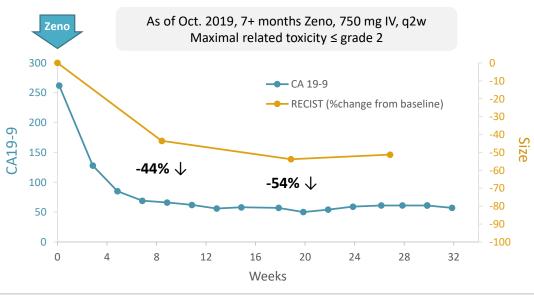


Zeno Clinical Response in NRG1+ Cancers

Patient Data Presented at 2019 AACR-NCI-EORTC International Conference

Example pancreatic cancer patient:







Zeno Activity and Promising Durability Observed in Patients

Zeno NRG1+ Clinical Activity Reported by MSKCC at 2019 AACR-NCI-EORTC International Conference

	PANCREA	ATIC CANCER	LUNG CANCER	
Tumor size reduction	54% (PR)	25% (SD)	41% (PR)	
PET scan	Neg	Neg	nd	
Decline in tumor marker	~75%	~90%	N/A	
Duration of treatment (mo)	>7*	>7*	~ 5*	

Source: AACR-NCI-EORTC International Conference on Molecular Targets and Cancer Therapeutics 2019 https://merus.nl/app/uploads/2019/10/AACR-NCI-EORTC Poster-LB-B12 NRG1-MCLA-128 10252019 FINAL.pdf

Overall Experience with Zeno in NRG1+ Tumors as of October 2019

	N	PANCREATIC CANCER	LUNG CANCER
Evaluable	6	PR 7 mo*; SD 7 mo	PR 5 mo*; SD 7 mo; PD; PD
Non-evaluable	3	Died of progressive disease prior to first evaluation	2 Pts not yet at first evaluation

⁵ patients enrolled on the eNRGy trial; 4 patients treated under Early Access Program

Source: Merus Press Release Oct 27, 2019 https://ir.merus.nl/news-releases/news-releases/news-releases/news-release-details/merus-bispecific-antibody-mcla-128-shows-encouraging-early *Indicates treatment was ongoing at the time of the conference; nd, no data; N/A, not applicable



Zeno Clinical Programs in NRG1+ Cancers

eNRGy Clinical Trial and Early Access Program Ongoing



- Phase 1/2 global single arm trial of Zeno in NRG1+ cancers
- Cohorts include Pancreatic, NSCLC, and other solid tumors
- Majority of clinical trial sites open and enrolling
- Ongoing Phase 1/2 trial update expected 2Q 2021









Early Access Program

- For eligible patients who do not enroll on the eNRGy trial
- Allows patients with NRG1+ cancers to receive treatment with Zeno
- Evaluations and patient follow up may be similar to eNRGy protocol
- May provide additional clinical data in support of Zeno NRG1+ program



Identifying and Recruiting NRG1+ Cancer Patients

NRG1+ Cancers are Found Across Multiple Solid Tumor Types

тим	OR TYPE	ESTIMATED INCIDENCE (%)		
有作	LUNG	0.3 – 3.0		
T	PANCREAS	0.5 – 1.5		
	OTHER	< 1.0		

Comprehensive Effort to Identify and Recruit Patients





IDENTIFICATIONPatient testing and

Patient testing and physician engagement campaigns

COLLABORATION

Physician, trial site engagement & support 1-833-NRG-1234 www.nrg1.com

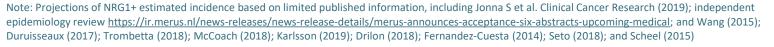
PLACEMENT

Patient logistics / support for eNRGy trial or EAP



Early Access Program

Clinical program update on > 30 patients with pancreatic, NSCLC and other cancers planned for 2Q 2021



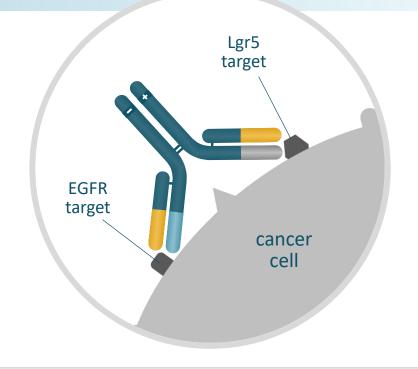


Designed to potently block signaling and growth in Wnt-dysregulated solid tumors

MCLA-158

Lgr5 x EGFR bispecific

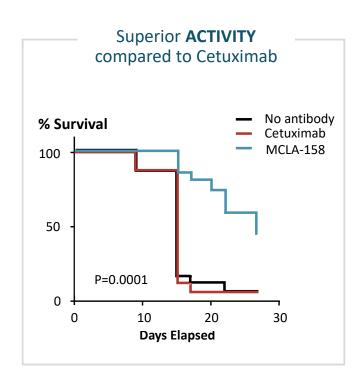
- Binds to EGFR and Lgr5, an intestinal cancer-initiating cell antigen
- Potential to address significant unmet need in colorectal and other solid tumors
- Blocks growth in Wnt-dysregulated tumor models including Ras^{mut}
- Modifications to enhance ADCC
- Phase 1 trial update planned for year end 2020

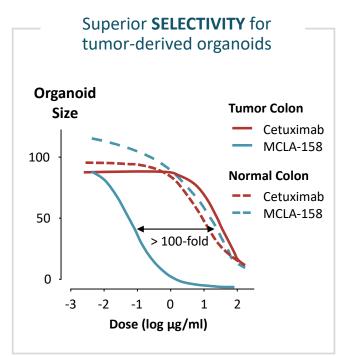




MCLA-158 — Novel Target and Innovative MoA

Superior Growth Inhibition and Selectivity of Tumor Versus Healthy Tissue





ONGOING PHASE 1 TRIAL

- Global Phase 1 trial ongoing
- Protocol includes dose expansion phase at RP2D
- Update planned for year end 2020

- Activity observed in xenograft models resistant to treatment with Cetuximab
- MCLA-158 discriminated between organoids derived from tumor and healthy tissue

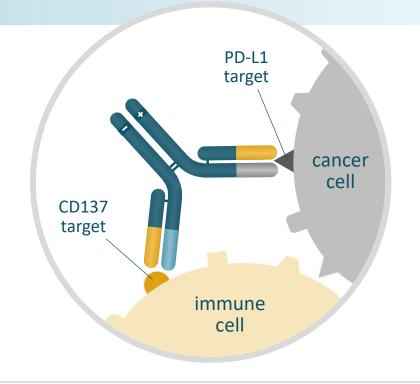


Designed to recruit and activate tumor infiltrating T-cells

MCLA-145

PD-L1 x CD137 bispecific

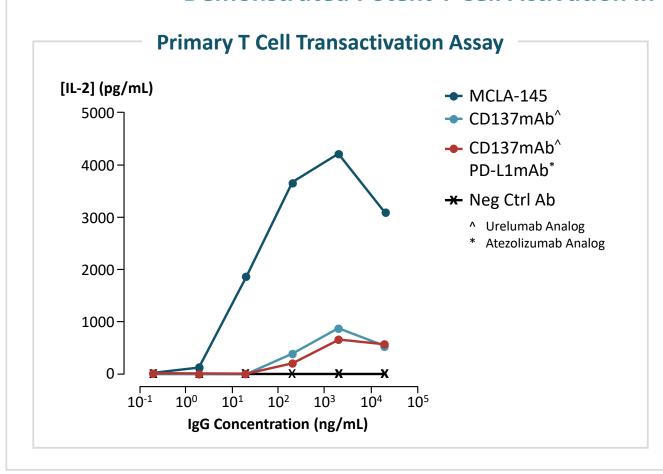
- Binds to PD-L1 on tumor cells and CD137 (4-1BB), a potent activator of tumor infiltrating T-cells, on activated T-cells
- Targets PD-L1 positive cells in the tumor and blocks the PD-1/PD-L1 inhibitory signal
- Potential in a variety of solid tumors and hematological malignancies
- Global phase 1 trial ongoing in collaboration with Incyte





MCLA-145 — Targets PD-L1 Positive Tumor Cells

Demonstrated Potent T Cell Activation in Preclinical Studies



Ongoing Phase 1 Trial

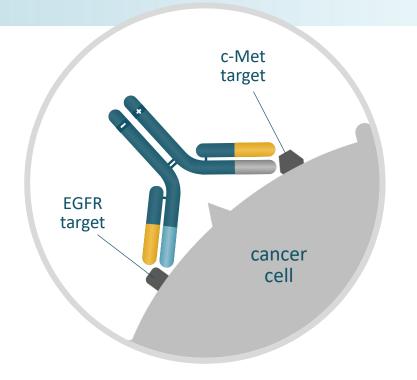
- Global open-label Phase 1 dose escalation trial ongoing
- Clinical trial co-developed in collaboration with Incyte Corporation



Designed to target lung cancer and other solid tumors

MCLA-129 c-MET x EGFR Bispecific

- Targets both c-Met and EGFR on cancer cells
- Significant opportunity in lung cancer and other solid tumors
- IND enabling studies ongoing
- First patient planned to be dosed in 2021





Merus Collaborations & Licensing Agreements

Expanding Merus pipeline through development of innovative therapeutics



Global collaboration of up to 11 Biclonics® programs

\$200mm at signing and research funding, Merus retains full U.S. rights to develop, commercialize MCLA-145



MCLA-129 EGFR x C-MET collaboration

Betta conducting IND-enabling studies; Merus retains global rights ex-China



Collaboration with 3 immuno-oncology Biclonics® programs

Simcere responsible for IND-enabling and China studies; Merus retains global rights ex-China



Biclonics® Licensing Agreement for Autoimmune diseases

Phase 1 trial in Japan for ONO-4685, a PD-1 x CD3 bispecific antibody



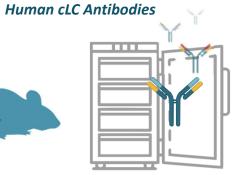
Our Platform – Unparalleled Capabilities in Multispecific Antibodies

Generate



Patented Mouse

Technology



Established Inventory

Patented "Merus Established inventory of thousands of cLC antibodies against many targets, each with distinct purposes and unique features

EvaluateThousands of Multispecific Abs





Efficient Pairing of Thousands of Multiclonics®

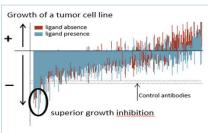
Robotics generate thousands of Multiclonics®; patented "DEKK" heterodimerization technology enables efficient pairing of multispecific antibodies

Unbiased Screening

In-format, unbiased functional screening in relevant cellular assays

IdentifyBest Candidates

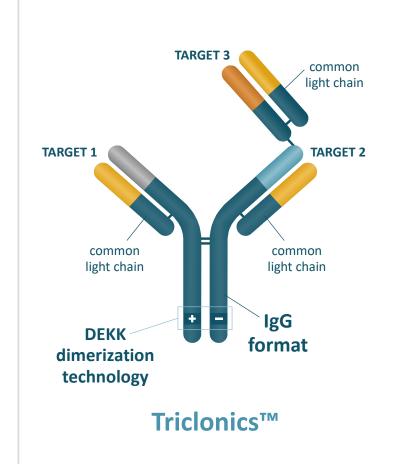




Identification of best candidates from thousands of different Biclonics® and Triclonics™ against multiple different targets

Merus

Our Research — Triclonics™ and Beyond



Triclonics™ Opportunity

- High throughput production, purification and screening in the trispecific format
- Stable format with predictable behavior that can be produced as if it were a normal monoclonal antibody
- Allows for 3 specificities without the need to engineer each individual Fab
- Leverages Merus' extensive library of established antibody panels that bind tumor antigens and engage and modulate the immune system



Merus Overview



Bispecific and trispecific cancer the rapeutic candidates based on the human $\operatorname{Ig} G$ form at



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