

ASCO²⁰ Virtual

Roche Analyst Event *Friday, 29 May 2020*





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- 2 legislative and regulatory developments and economic conditions;
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- 5 uncertainties in the discovery, development or marketing of new products or new uses of existing products, including without limitation negative results of clinical trials or research projects, unexpected side-effects of pipeline or marketed products;
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- 11 adverse publicity and news coverage.

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Welcome

Karl Mahler, Head of Investor Relations and Group Planning

Cancer immunotherapy pipeline overview

Targeting the cancer immunity cycle and tiragolumab (Anti-TIGIT) overview

Ira Mellman, Ph.D., Vice President, Cancer Immunology, Genentech Research and Early Development

ASCO 2020 Key readouts across tumor types

CITYSCAPE: Primary analysis of tiragolumab + Tecentriq in 1L NSCLC Updated data from Alecensa, Rozlytrek and Tecentriq in lung, liver cancer & tumor-agnostic indications Alan Sandler, M.D., Global Head of Product Development Oncology - Solid Tumors

Q&A

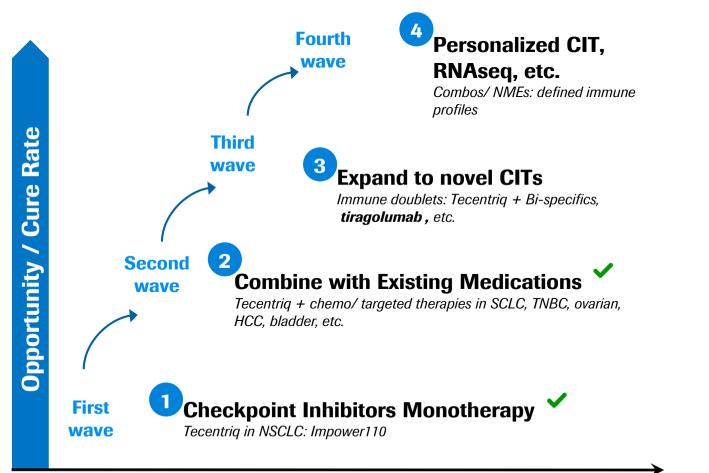


Welcome

Karl Mahler | Head of Investor Relations and Group Planning

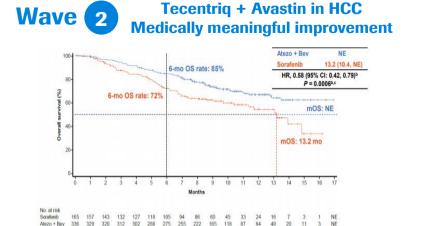
Establishing Tecentriq as standard of care in major tumor types





Wave 3 Tecentriq and tiragolumab in various cancer types have started Ph III development

- SKYSCRAPER-01 Ph III in PD-L1+ NSCLC
- SKYSCRAPER-02 Ph III in ES-SCLC
- SKYSCRAPER-04 Ph II in PD-L1+ cervical cancer





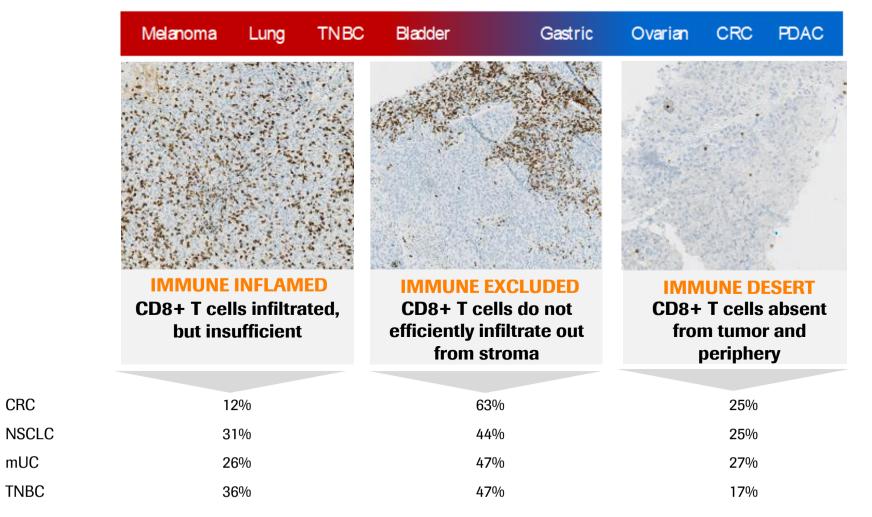
Overview of tiragolumab (Anti-TIGIT)

Ira Mellman, Ph.D. | Vice President, Cancer Immunology (gRED)



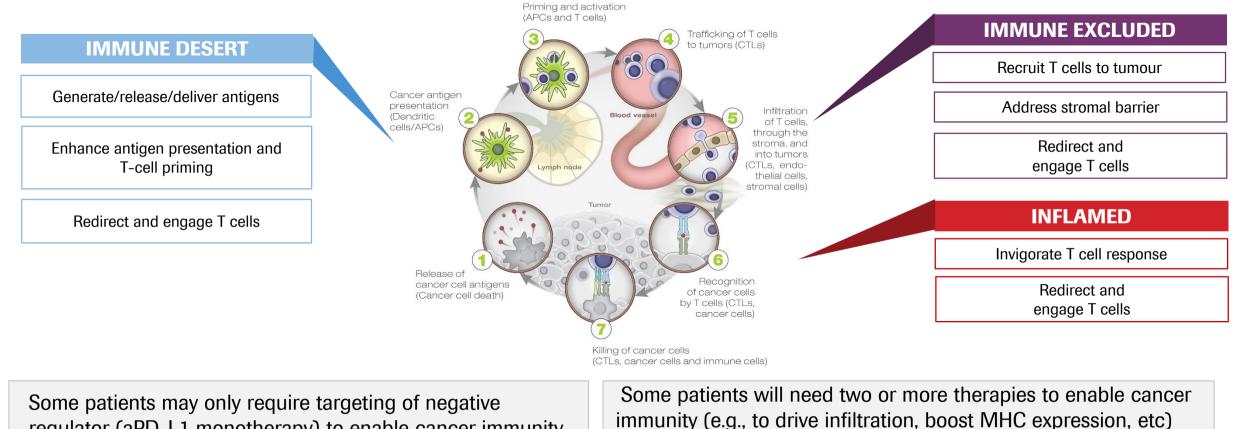
All tumors exhibit one of three basic immune phenotypes

Provides mechanistic context for response and lack of response to CIT



Incidence

Strategies to promote an antitumor immune response by phenotype Target "rate limiting steps" associated with primary and secondary resistance

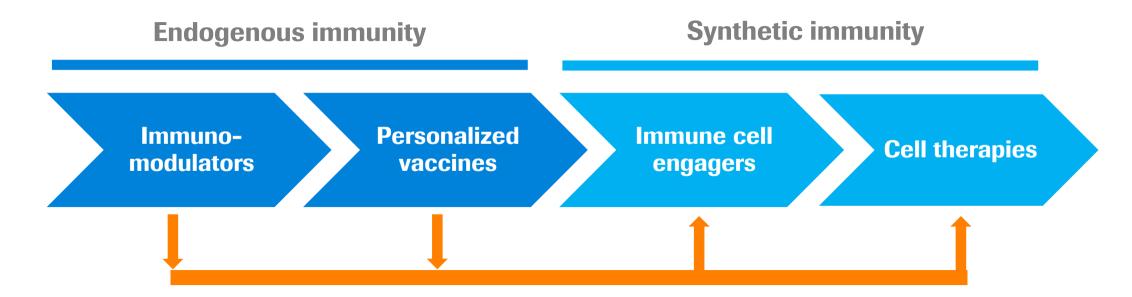




regulator (aPD-L1 monotherapy) to enable cancer immunity

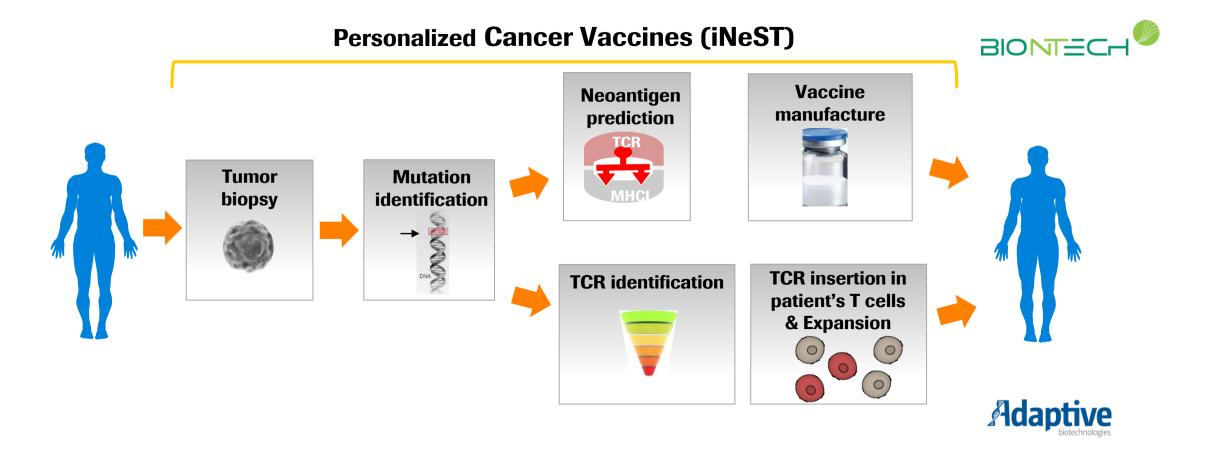
Adapted from Chen and Mellman. Immunity 2013; Hegde, et al. Clin Cancer Res 2016; Kim and Chen. Ann Oncol 2016; Chen and Mellman. Nature 2017

Targeting the cancer immunity cycle requires a methodologically coordinated approach

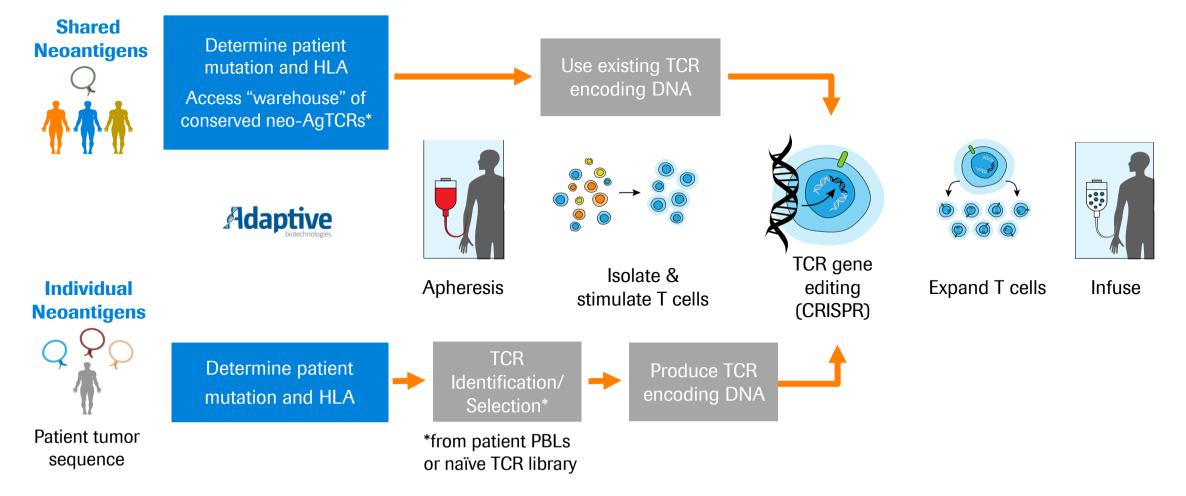


Immune profiles may limit the effectiveness even of synthetic approaches

Neoantigen specific therapies: two complimentary approaches



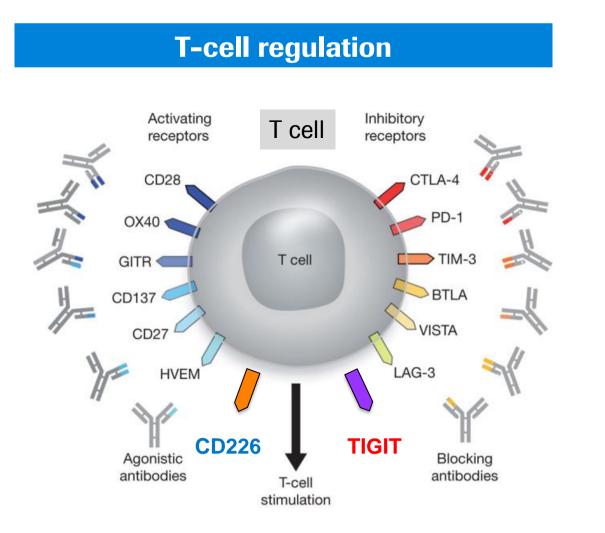
Neoantigen-specific T cells can be shared or individual



TCR: T cell receptor, HLA: human leukocyte antigen; PBL: peripheral blood leukocytes, neo-Ag: neoantigen

There are many T cell checkpoints, including TIGIT



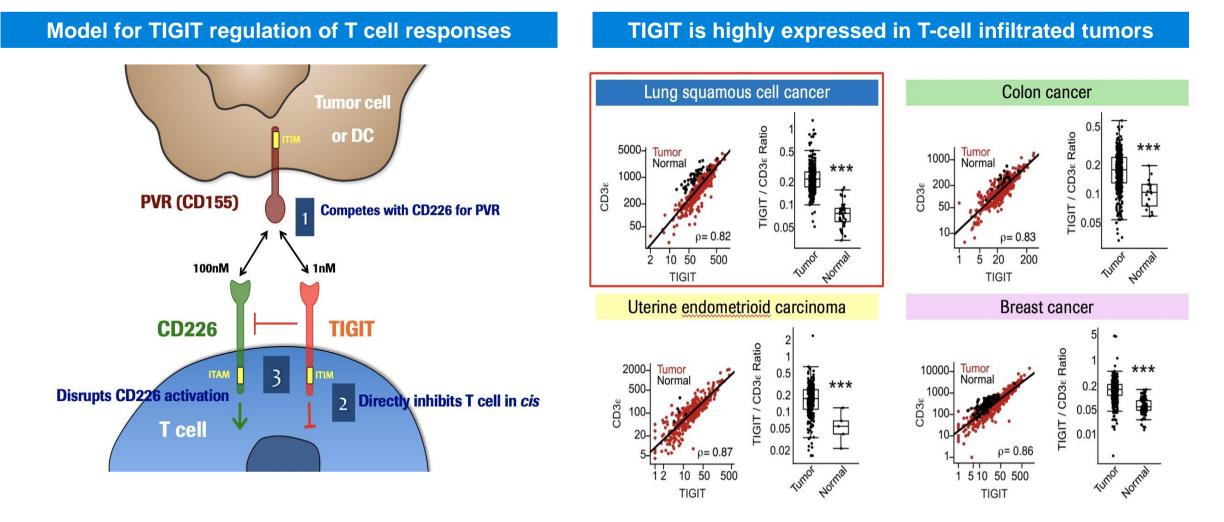


About TIGIT

- **TIGIT** (T cell immunoreceptor with Ig and ITIM domains) is an **inhibitory receptor**, discovered at Genentech
- **TIGIT** acts as a specific negative regulator of the CD226 costimulatory receptor
- TIGIT is expressed on multiple immune cells, including CD8+ T cell (effector memory), CD4+ T cells (effector memory and regulatory), Tfh cells, and NK cells²⁻⁴
- TIGIT is expressed on a new population of T cells, stem-like memory cells, that may be the preferred targets for anti-PDx efficacy

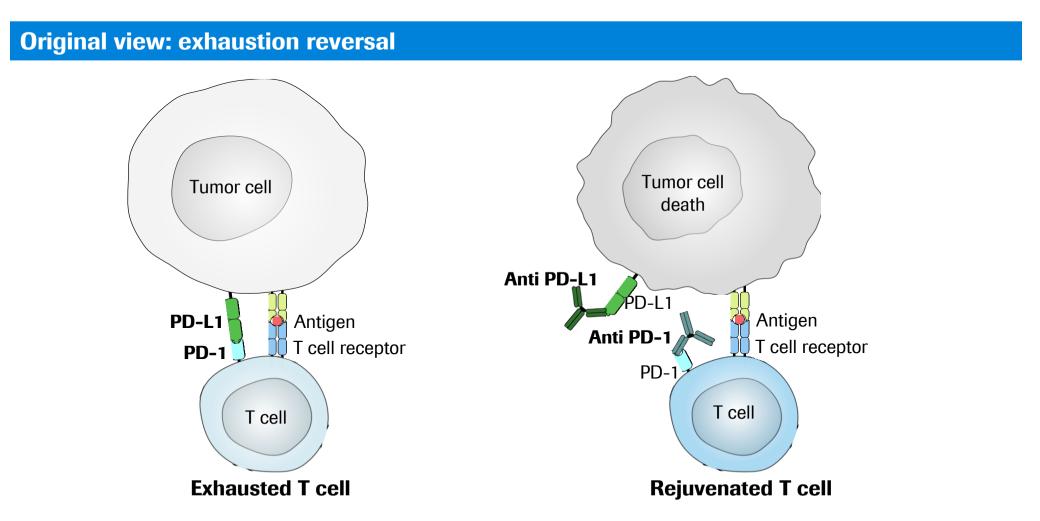
TIGIT – expressed in multiple tumor types



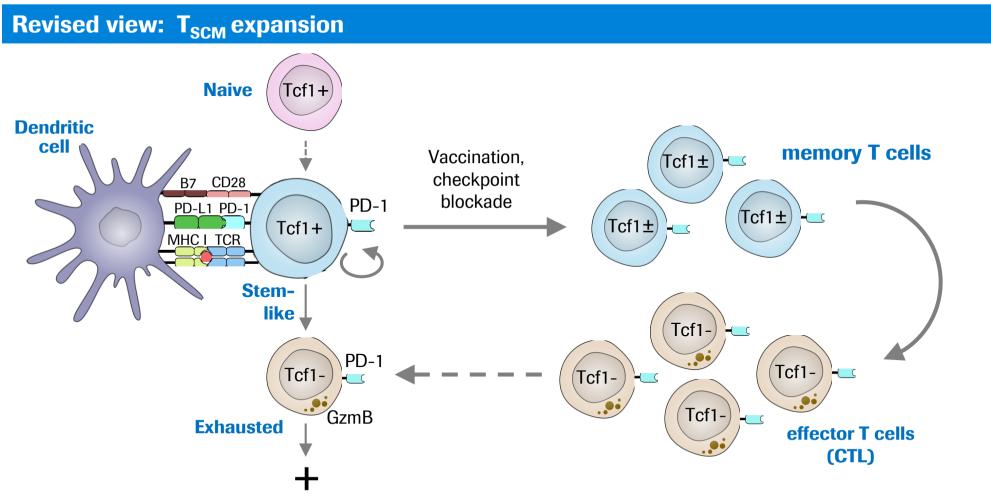


Johnson et al. Cancer Cell 2014

Evolving understanding of how checkpoint inhibitors work: *Reversing exhaustion vs expanding stem cell-like anti-tumor T cells*



Evolving understanding of how checkpoint inhibitors work: *Reversing exhaustion vs expanding stem cell-like anti-tumor T cells*



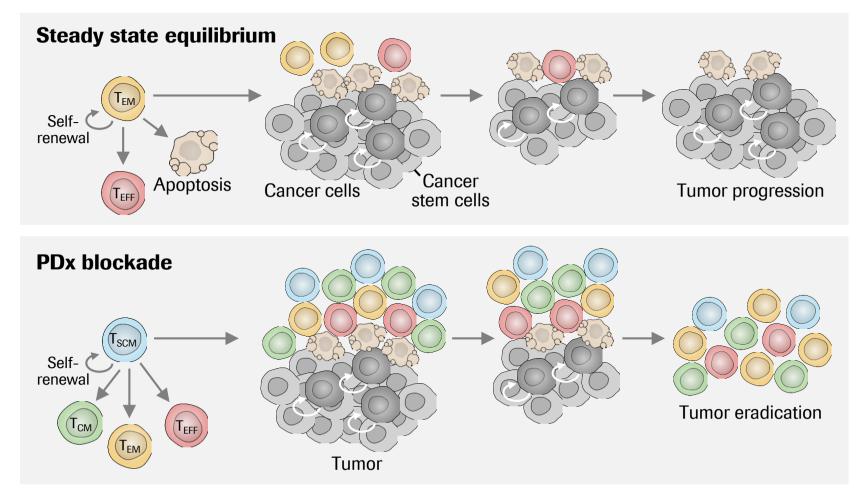
Siddiqui et al (2019) Immunity 15;50(1):195-211

• <u>LCMV</u>: Im et al. 2016. PMID 27501248, Utzschneider et al 2016. PMID 27533016

• Cancer: Sade-Feldman et al. 2018. PMID 30388456, Kurtulus et al. 2019. PMID 30635236, Siddiqui et al. 2019. PMID 30365237, Jansen et al. 2019. PMID 31827286



Expansion of stem cell-like anti-tumor T cells will drive the production of more tumor-specific effectors

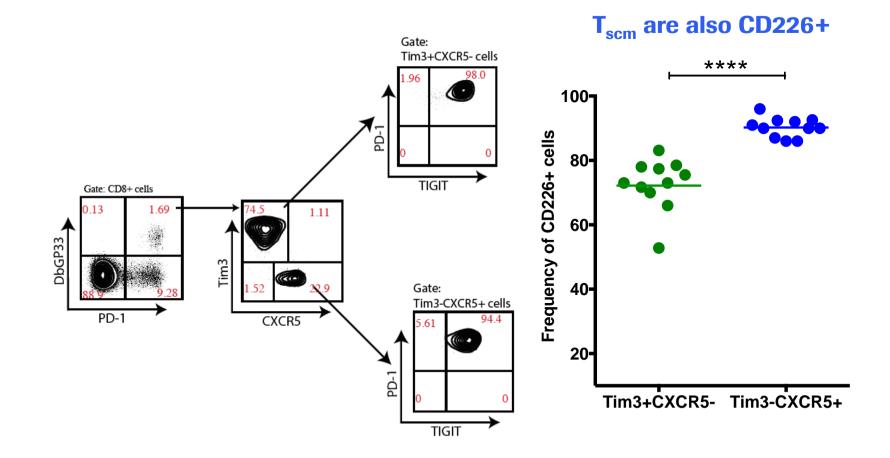


Key CIT questions

- 1) How do we generate more tumor reactive T_{SCM} cells?
- 2) How do we promote their self renewal?
- 3) How do we promote their differentiation and effector function?



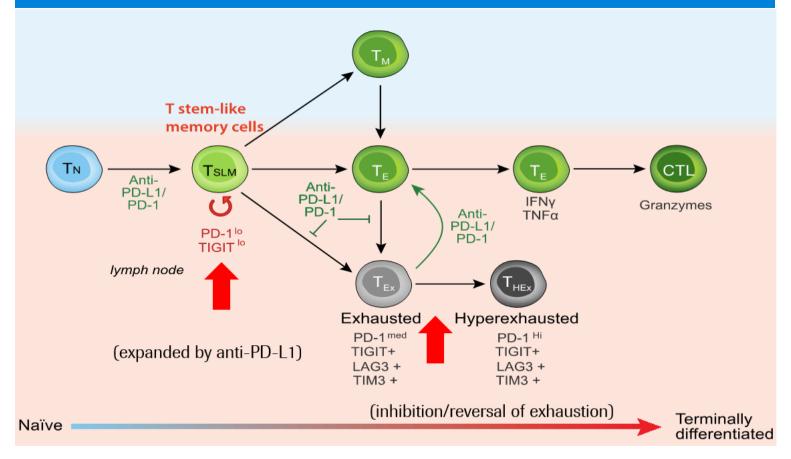
T stem like memory cells (T_{scm}) express PD-1 and TIGIT... not Tim- 3 or other negative regulators





Rationale for Tecentriq + TIGIT *PD1 and TIGIT are co-expressed on stem-like T-cells*

Anti-PD-L1 expands a key population of PD-1-positive T stem-like cells, which also express TIGIT but no other negative regulator

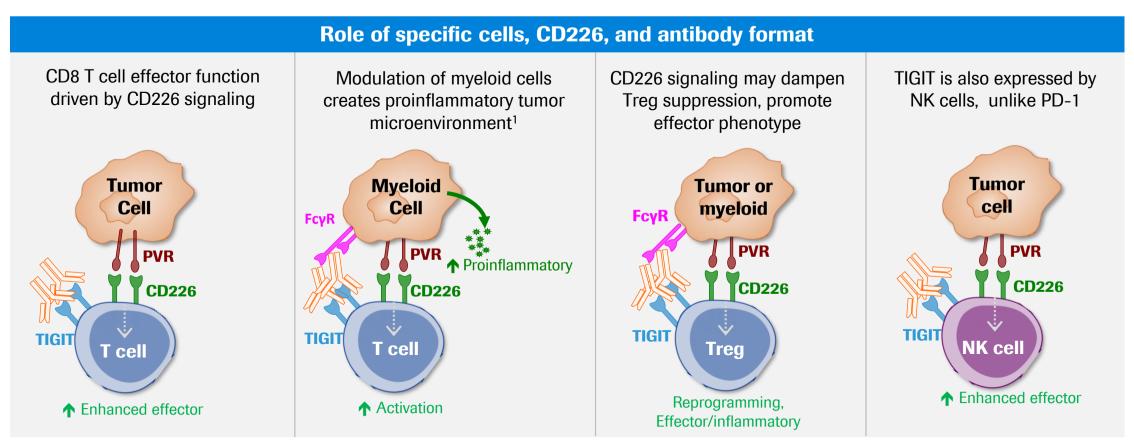


• T-cell expansion

- Prevent/reverse T-cell
 exhaustion
- Other potential MOA:
 - Myeloid cell reprogramming
 - T regulatory cell reprogramming
 - NK effector function

Additional mechanistic roles for TIGIT



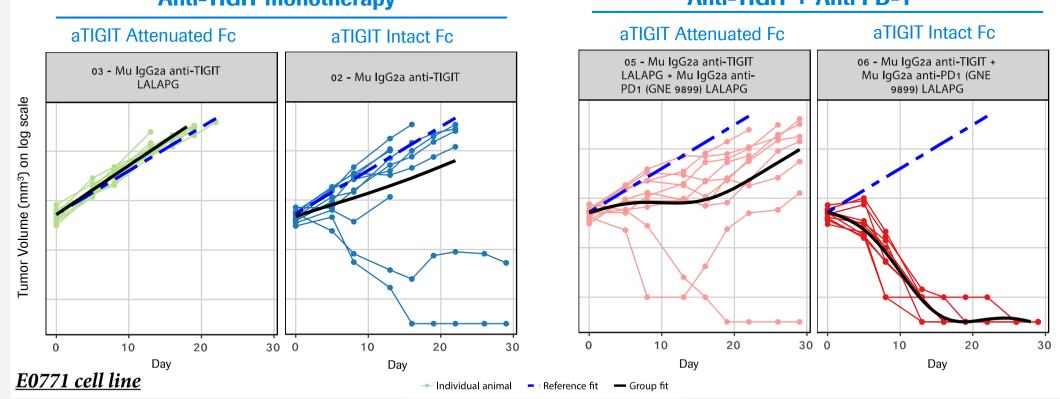


Anti-TIGIT Fc:FcyR interaction may sequester TIGIT away from the synapse, and play a role in reprogramming of myeloid cells

Anti-TIGIT activity may be dependent on antibody design



Preclinical data supports the hypothesis that Anti-TIGIT activity may be dependent on Fc effector function



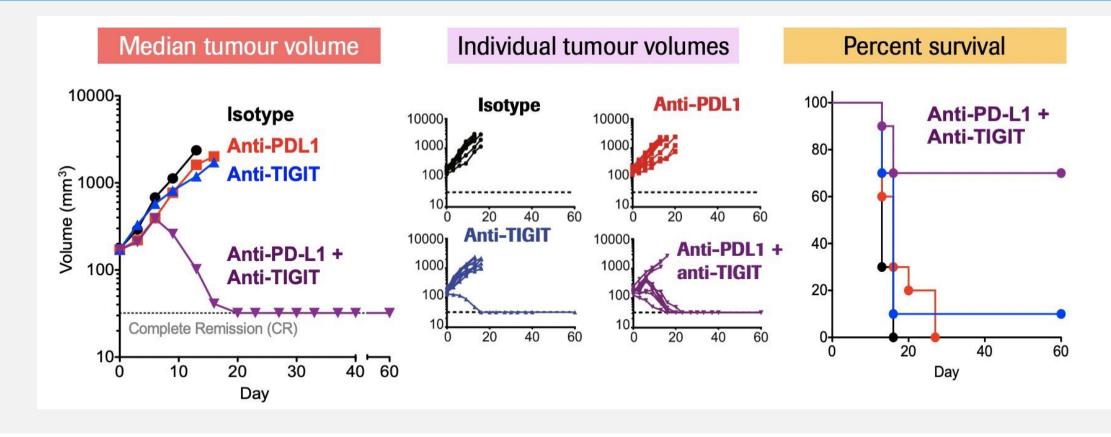
Anti-TIGIT monotherapy

Anti-TIGIT + Anti PD-1

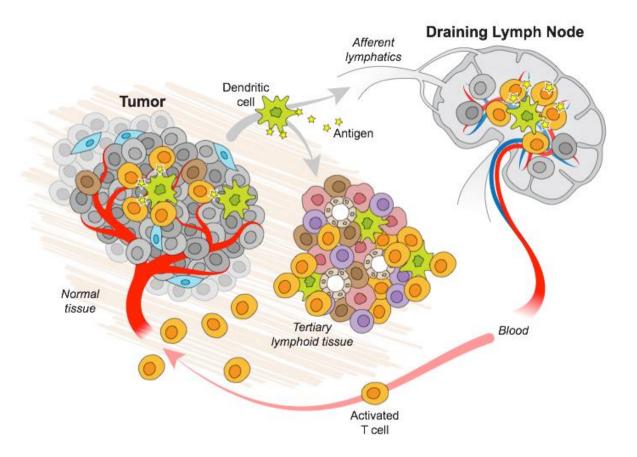
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TIGIT and PD-L1 blockade synergistically improves tumor control *Prolongs survival in CT26 models*

Blockade of TIGIT and PD-L1 showed a 75% decrease in mean tumor volume after 16 days of treatment



An evolving paradigm: PD1/TIGIT blockade induce T cell expansion in dLN to achieve therapeutic anti-tumor immunity





ASCO 2020 Key readouts across tumor types

Alan Sandler, M.D. Global Head of Product Development Oncology -Solid Tumors



Lung cancer

- **CITYSCAPE:** Tiragolumab + Tecentriq in 1L NSCLC
- ALEX: Alecensa in 1L Alk-mut. NSCLC

Tumor agnostic indications

Rozlytrek updated analyses in pediatrics and adults with solid tumors

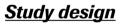
Liver cancer

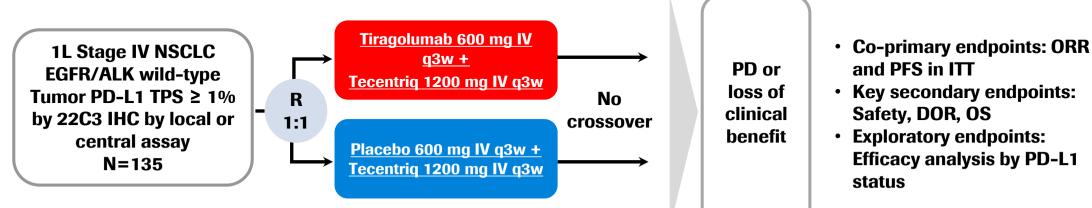
• IMbrave150: Tecentriq + Avastin in 1L HCC



CITYSCAPE: Primary analysis of a randomized, double-blind, phase II study of the anti-TIGIT antibody tiragolumab plus Tecentriq versus placebo plus Tecentriq as 1L treatment in patients with PD-L1-selected NSCLC

CITYSCAPE rPh II: Tiragolumab plus Tecentriq in 1L NSCLC





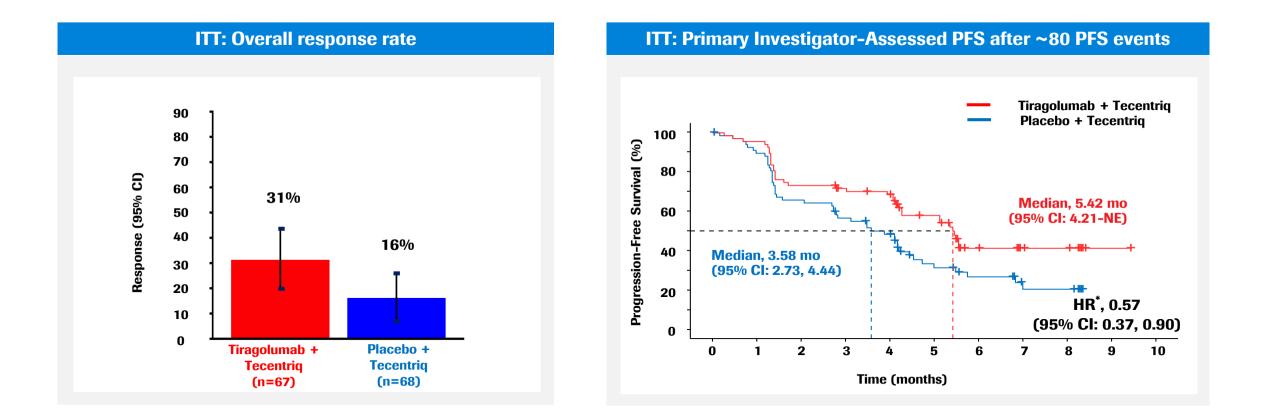
Stratification factors by baseline: ITT

	Tiragolumab + Tecentriq (n=67)	Placebo + Tecentriq (n=68)
Never used tobacco*	7 (10%)	7 (10%)
Non-squamous histology*	40 (60%)	40 (59%)
PD-L1 TPS ≥ 50%*	29 (43%)	29 (43%)
PD-L1 TPS 1-49%*	38 (57%)	39 (57%)

Primary data cut-off: 30 June, 2019; ITT=intention-to-treat; DOR = duration of response; IHC = immunohistochemistry; ORR = confirmed overall response rate; OS = overall survival; PD = progressive disease; PFS = progression free survival; q3w = every 3 weeks; R = randomized; TPS = tumor proportion score; *stratification factors 26

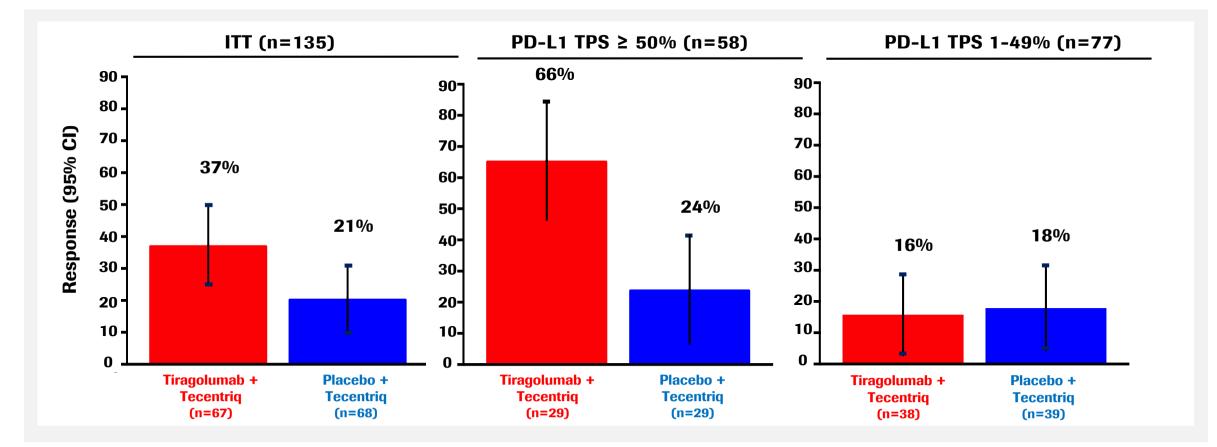


CITYSCAPE rPh II: Tiragolumab plus Tecentriq in 1L NSCLC *Primary analysis with 5.9 months median follow-up*



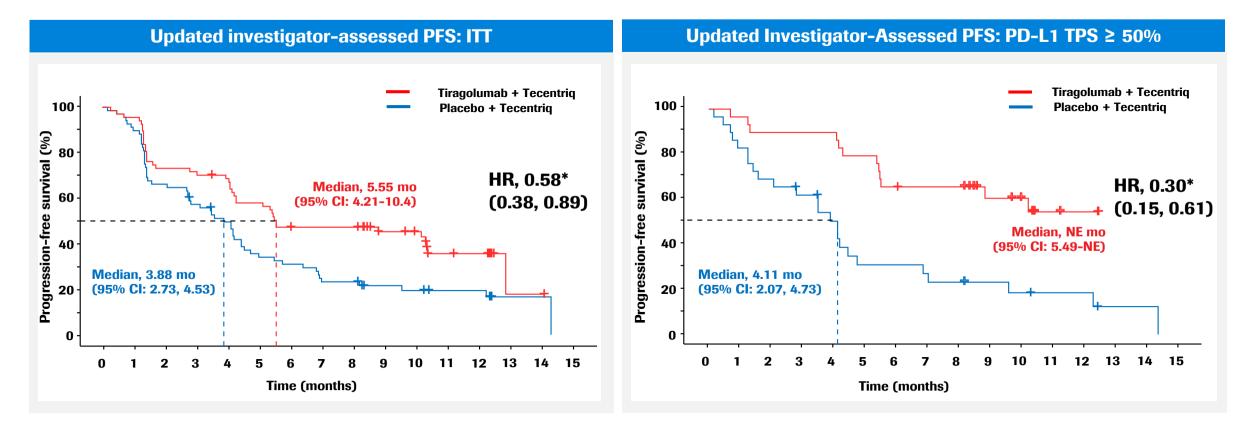
Tiragolumab plus Tecentriq met both co-primary endpoints in the ITT population, showing an improvement in ORR and PFS

CITYSCAPE rPh II: Tiragolumab plus Tecentriq in 1L NSCLC Updated ORR analysis with 10.9 months median follow-up



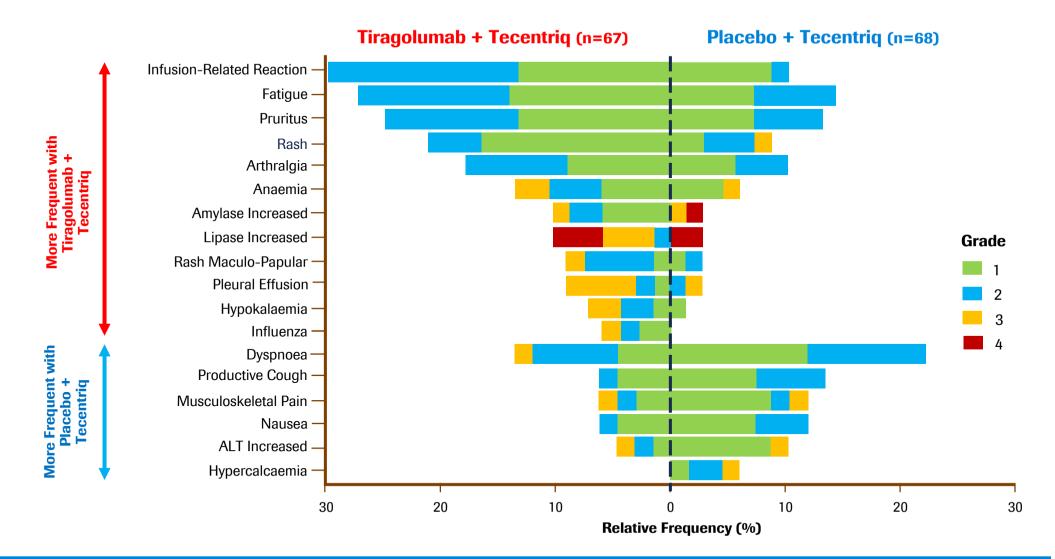
Consistent and clinically meaningful overall response rate (ORR), mainly driven by the PD-L1 high population (TPS>50%)

CITYSCAPE rPh II: Tiragolumab plus Tecentriq in 1L NSCLC Updated PFS analysis with 10.9 months median follow-up



Consistent and clinically meaningful PFS at longer follow-up with greater magnitude of improvement in the PD-L1 high population

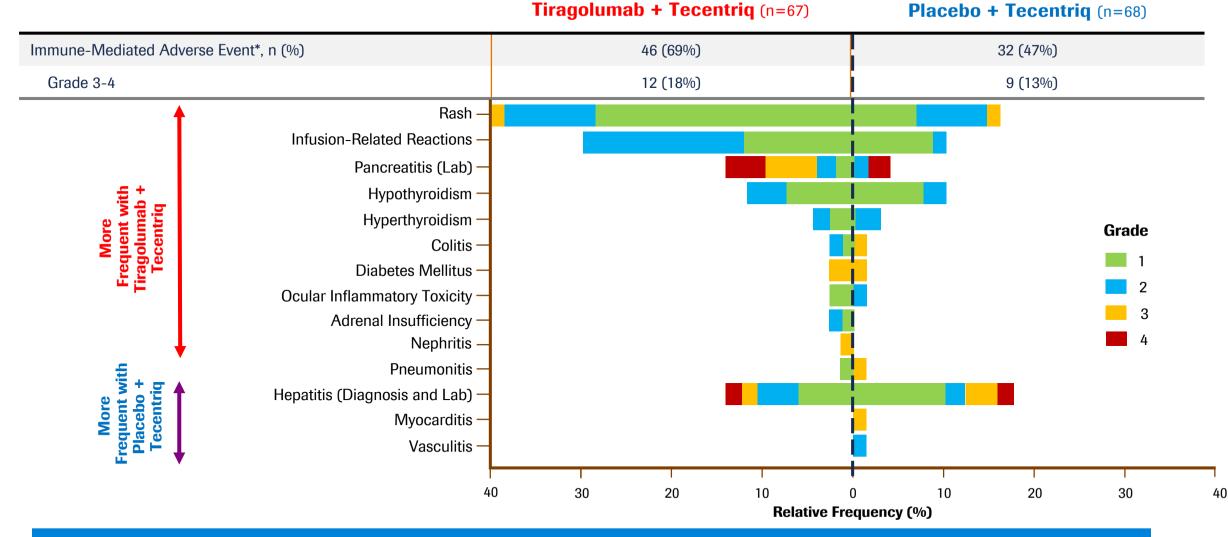
CITYSCAPE: All-cause adverse events (updated analysis)



Combining tiragolumab and Tecentriq was well-tolerated with similar rates of all Grade 3+ AEs compared with Tecentriq alone

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CITYSCAPE: Immune-mediated adverse events (updated analysis)



More frequent immune-related AEs with the combination of tiragolumab and Tecentriq, but primarily Grade 1-2 IRR and rash

*imAE's captured using Atezo AESI basket strategy to identify possibly immune related PT's

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CITYSCAPE: Conclusions



- Tiragolumab + Tecentriq showed clinically meaningful improvement in ORR and PFS in the ITT population compared to placebo + Tecentriq
- With longer follow-up, the treatment benefit of tiragolumab + Tecentriq remained consistent, with a greater magnitude of improvement seen in the PD-L1 TPS ≥ 50% subgroup
- Tiragolumab + Tecentriq was well-tolerated, with a safety profile similar to placebo + Tecentriq

- Immune-mediated adverse events (imAEs) were more frequent with tiragolumab + Tecentriq but were primarily Grade 1-2 imAEs (mostly IRR and rash) and were manageable

 The observed activity and safety of tiragolumab + Tecentriq is to be confirmed in an ongoing Phase III study (SKYSCRAPER-01) in first-line PD-L1 TPS ≥ 50% NSCLC (NCT04294810)



Tiragolumab: Broad clinical development program *Further studies to be started over the course of next 12 months*

ase 1 30103	Solid tumors	Ongoing	Data from NSCLC cohort at AACR 2020
ase 1 41036	R/R Multiple myeloma or NHL	Ongoing	
ase 2 SCAPE	Non-small cell lung cancer PD-L1 TPS ≥ 1%	Ongoing	Data at ASCO 2020
ase 3 RAPER-01	Non-small cell lung cancer PD-L1 TPS>50%	FPI Q1 '20	
ase 3 RAPER-02	Extensive stage small-cell lung cancer	FPI Q1 '20	
ase 2 RAPER-04	Cervical cancer PD-L1-selected	FPI exp. Q2 '20	
e 1b/2 39609	MORPHEUS GI cancer	Ongoing	
e 1b/2 39608	MORPHEUS pancreatic cancer	Ongoing	
e 1b/2 39613	MORPHEUS urothelial carcinoma	Ongoing	

Signal-seeking in various tumor types ongoing; four additional phase 3 studies including chemo-free immune doublets to be initiated in 2020



Lung cancer

- CITYSCAPE: Tiragolumab + Tecentriq in 1L NSCLC
- ALEX: Alecensa in 1L Alk-mut. NSCLC

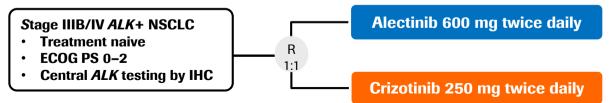
Tumor agnostic indications

Rozlytrek updated analyses in pediatrics and adults with solid tumors

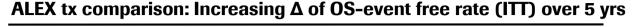
Liver cancer

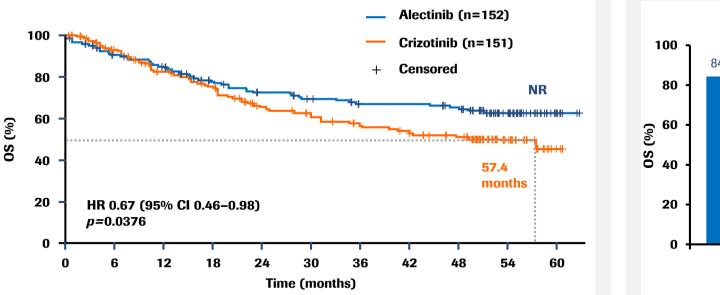
• IMbrave150: Tecentriq + Avastin in 1L HCC

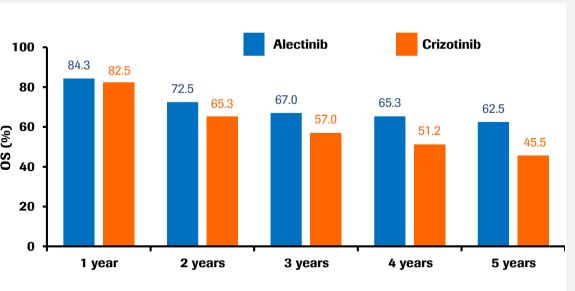
Alecensa in 1L ALK+ NSCLC (ALEX): Greater than 60% of patients alive after 5 years



5-year OS rate (ITT) of 62.5% independent of CNS metastases at BL







The updated analysis confirms the superior OS efficacy and tolerability of Alecensa in comparison to crizotinib

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Lung cancer

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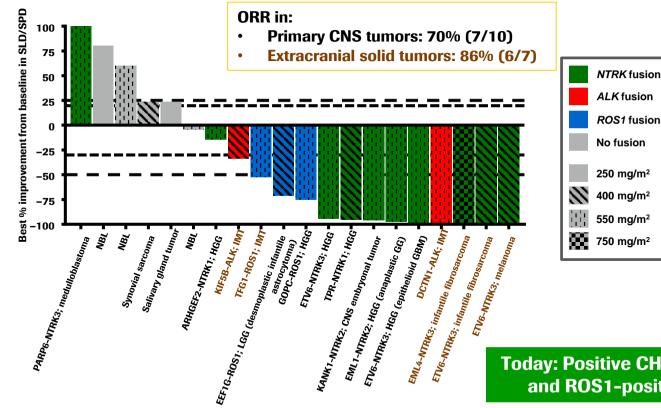
Liver cancer

• IMbrave150: Tecentriq + Avastin in 1L HCC

Rozlytrek activity in children and adolescents in tumors with and without NTRK1/2/3, ROS1 or ALK fusions: STARTRK-NG update



Response rate in pediatric solid tumors - ORR in fusion-positive tumors: 76% (13/17)

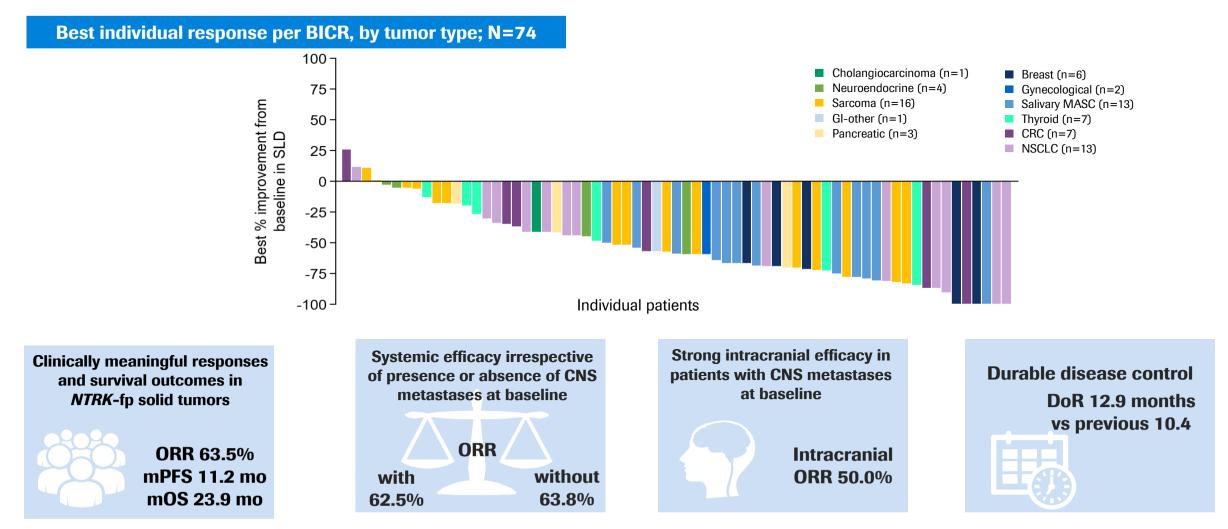


- Efficacy data, with longer follow-up, confirm the rapid and durable objective responses seen in both high-grade CNS tumors and extracranial solid tumors
- Median confirmed DoR not reached: (95% Cl 14.3mo, NE)
- Safety profile was consistent with prior reports

Today: Positive CHMP opinion for Rozlytrek in NTRK fusion-positive solid tumors and ROS1-positive, advanced NSCLC in patients 12 years of age and older

Data cut-off: 1 July 2019. Investigator assessed. HGG, high-grade glioma; IMT, inflammatory myofibroblastic tumor; LGG, low-grade glioma; NBL, neuroblastoma; SLD, sum of longest diameter; SPD, sum of product diameters; 2 fusion-positive patients are not depicted as they had non-measurable disease 37

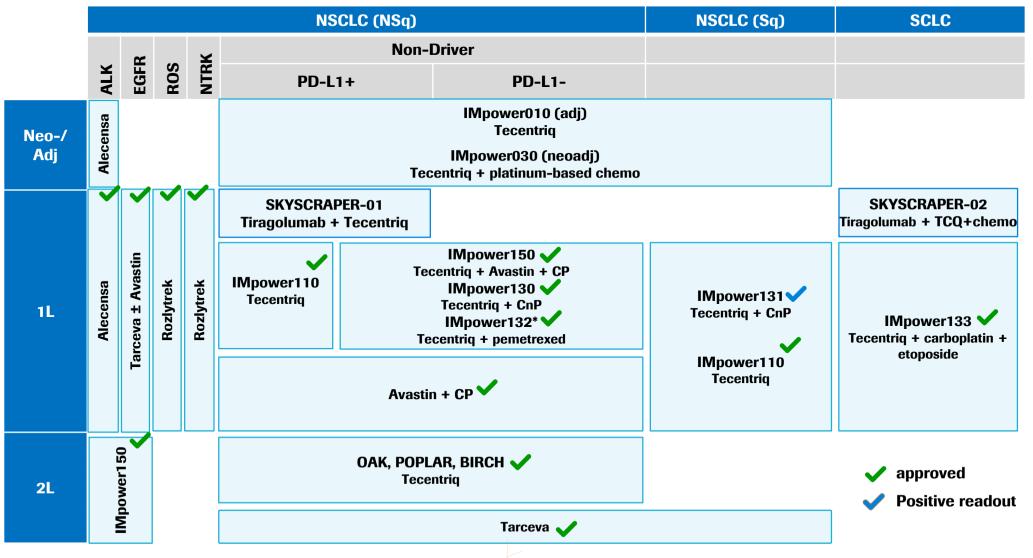
Rozlytrek in adult patients with *NTRK* fusion-positive solid tumors: Updated integrated analysis¹



1.Integrated analysis of phase 1/2 studies (ALKA-372-001, STARTRK-1, STARTRK-2; EudraCT 2012-000148-88; NCT02097810; NCT02568267)

Patients with missing SLD percent change are excluded from the plot. SLD, sum of longest diameters. GI, gastrointestinal. CRC, colorectal cancer. NSCLC, non-small-cell lung cancer. MASC, mammary analogue secretory carcinoma.

Broadest NSCLC portfolio with the potential for chemo-free combos *Newly added tiragolumab complements activity of Tecentriq*



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Lung cancer

- CITYSCAPE: Tiragolumab + Tecentriq in 1L NSCLC
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Tumor agnostic indications

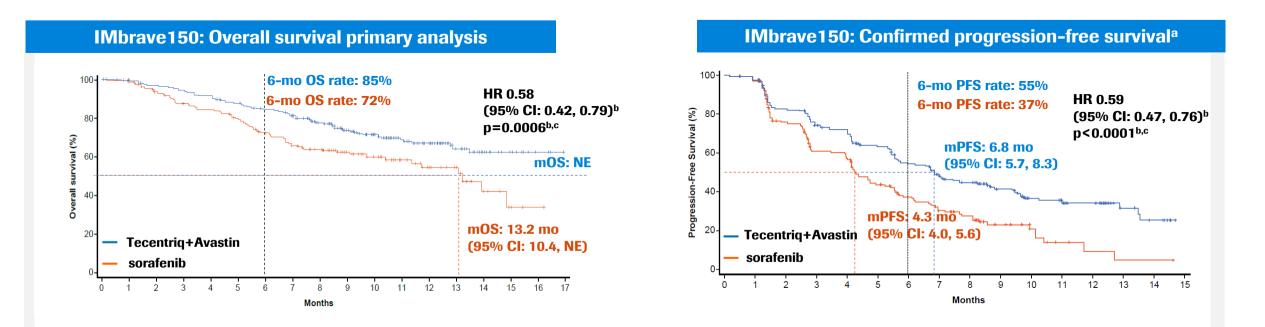
Rozlytrek updated analyses in pediatrics and adults with solid tumors

Liver cancer

• IMbrave150: Tecentriq + Avastin in 1L HCC



Tecentriq + Avastin in 1L HCC *A new standard of care in unresectable HCC*



- Statistically significant and clinically meaningful improvement in both OS and PFS with Tecentriq + Avastin vs sorafenib in patients with unresectable HCC who had not received prior systemic therapy
- Tecentriq + Avastin may be a practice-changing treatment for patients with unresectable HCC who have not received prior systemic treatment

NE, not estimable; ^aassessed by IRF per RECIST 1.1.; ^b HR and *P* value were from Cox model and log-rank test and were stratified by geographic region (Asia vs rest of world, including Japan), AFP level (< 400 vs \geq 400 ng/mL) at baseline and MVI and/or EHS (yes vs no) per IxRS. ^c The 2-sided *P* value boundary based on 161 events is 0.0033. Data cutoff, 29 Aug 2019; median survival follow-up, 8.6 mo.

Tecentriq + Avastin in 1L unresectable HCC: Complete responses regardless of poorer prognostic factors or HCC etiology

	IRF REC	IRF RECIST 1.1		IRF HCC mRECIST	
	Atezo + Bev	Sorafenib	Atezo + Bev	Sorafenib	
	(n = 326)	(n = 159)	(n = 325) ^a	(n = 158)	
Confirmed ORR, n (%)	89 (27)	19 (12)	108 (33)	21 (13)	
(95% CI)	(23, 33)	(7, 18)	(28, 39)	(8, 20)	
CR	18 (6)	0	33 (10)	3 (2)	
PR	71 (22)	19 (12)	75 (23)	18 (11)	
Stratified <i>P</i> value ^b	< 0.0	< 0.0001		< 0.0001	
SD, n (%)	151 (46)	69 (43)	127 (39)	66 (42)	
PD, n (%)	64 (20)	39 (25)	66 (20)	40 (25)	
DCR, n (%)	240 (74)	88 (55)	235 (72)	87 (55)	
Ongoing response, n (%)°	77 (87)	13 (68)	84 (78)	13 (62)	
Median DOR, months	NE	6.3	NE	6.3	
(95% CI)		(4.7, NE)		(4.9, NE)	
Event-free rate at 6 months, n (%)	88	59	82	63	

• Six % of patients achieved a CR per RECIST1.1 with Tecentriq+Avastin vs 0% with sorafenib despite historically low CR rates

- Significantly higher ORR with Tecentriq+Avastin (although similar TTR as sorafenib): median TTR per RECIST1.1 of 2.8 months with 27% of patients responding, compared with TTR of 2.7 months for sorafenib with 12% of patients responding
- In the vast majority of patients, CR was still ongoing at 6 months and a median duration of CR has not yet been reached



^a IRF HCC mRECIST-evaluable population was based on patients who presented with measurable disease at baseline per HCC mRECIST criteria.

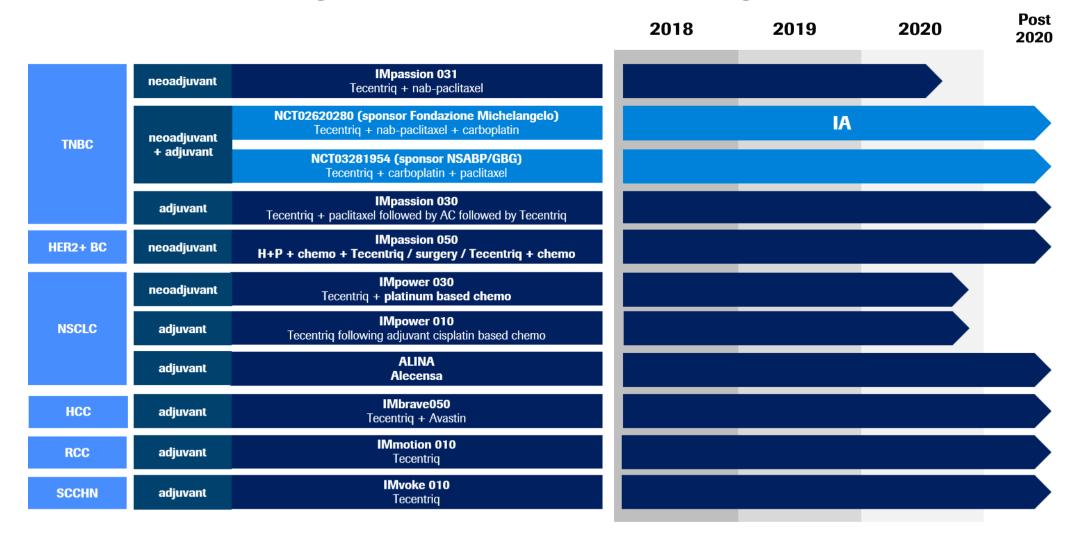
^b Stratification factors included geographic region (Asia vs rest of world, including Japan), AFP level (< 400 vs ≥ 400 ng/mL) at baseline and MVI and/or EHS (yes vs no) per IxRS.

^c Denominator is patients with confirmed CR/PR. Data cutoff, 29 Aug 2019; median survival follow-up, 8.6 mo.



Overview CIT adjuvant program

Liver cancer added, lung and breast studies starting to read out in 2020









Doing now what patients need next