



TG Therapeutics

NASDAQ: TGTX

J.P. Morgan Healthcare Conference

January 2017

Forward Looking Safe Harbor Statement

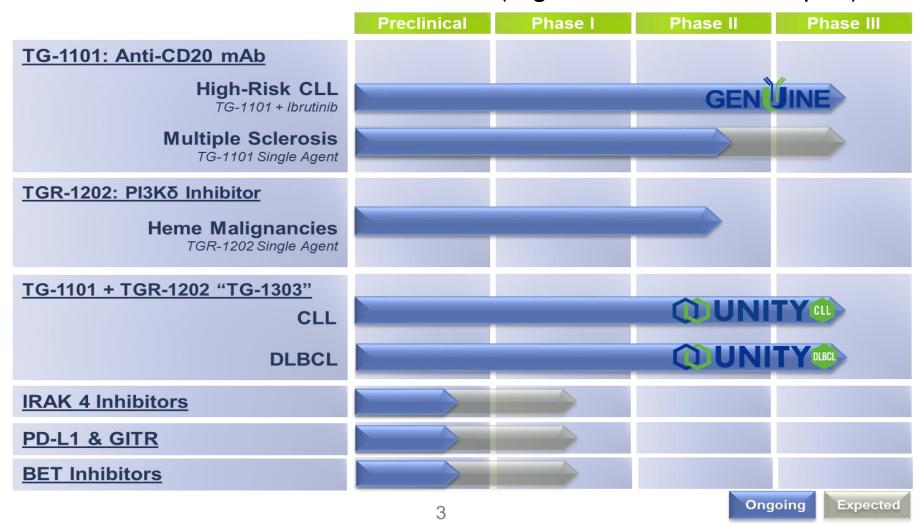


This presentation contains forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995. These statements are often, but not always, made through the use of words or phrases such as "anticipates", "expects", "plans", "believes", "intends", and similar words or phrases. Such statements involve risks and uncertainties that could cause TG Therapeutics' actual results to differ materially from the anticipated results and expectations expressed in these forward-looking statements. These statements are only predictions based on current information and expectations and involve a number of risks and uncertainties. Actual events or results may differ materially from those projected in any of such statements due to various factors, including the risks and uncertainties inherent in clinical trials, drug development, and commercialization. You are cautioned not to place undue reliance on these forward-looking statements, which speak only as of the date hereof. All forward-looking statements are qualified in their entirety by this cautionary statement and TG Therapeutics undertakes no obligation to update these statements, except as required by law.

TG Therapeutics, Inc.



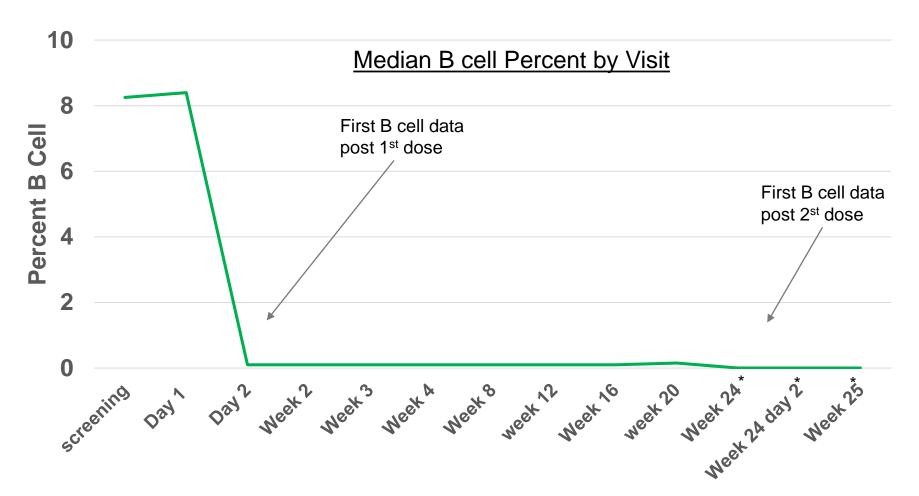
Leaders in developing combination treatments for B-cell cancers – CLL and NHL – as well as B-cell disorders (e.g. **MS**, NMO, RA, Lupus)



MS Phase 2– Key Findings



- Median B-cell depletion: 99%
- One hour infusion was well tolerated



Anti-CD20 mAbs in MS Phase III Studies of Ocrelizumab ("Ocre") in RMS



mAb	ARR by Y2 (Primary Endpoint)	Reduction in Total Gd Lesions (Secondary Endpoint)	Reduction in New Gd Lesions (Secondary Endpoint)
OPERA I OCRE 600mg v. Rebif N=822	-46% ARR (P<0.0001)	-94% (P<0.0001)	-77% (P<0.0001)
OPERA II OCRE 600mg v. Rebif N=835	-47% ARR (P<0.0001)	-95% (P<0.0001)	-83% (P<0.0001)

Opera I and II were identically designed studies conducted in US and EU

TG-1101 MS Program Update:

- Phase 2 underway, enrollment complete in Part 1
- Phase 3 under development, seeking guidance from FDA on design

TGR-1202: Novel PI3K delta Inhibitor

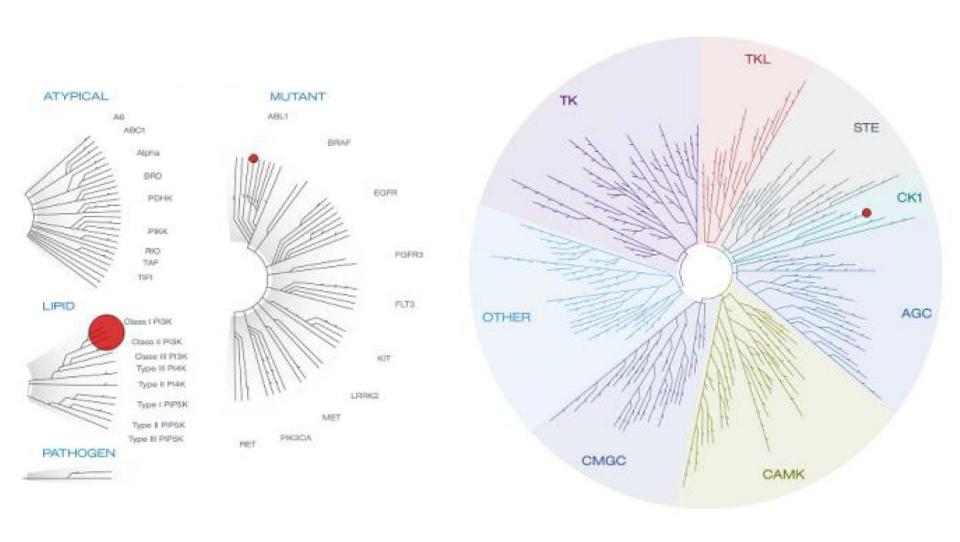


TGR-1202	Idelalisib (GS-1101)	Duvelisib (IPI-145)
F O N N N N N N N N N N N N N N N N N N	F O N NH N	CI O NH
Delta	Delta	Delta/Gamma
QD	BID	BID

- Significant structural differences compared to other PI3Kδ
- PK profile that allows <u>once-daily oral</u> dosing

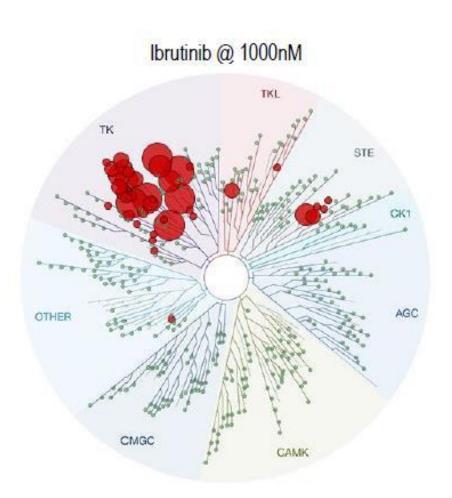
TGR-1202 Selectivity



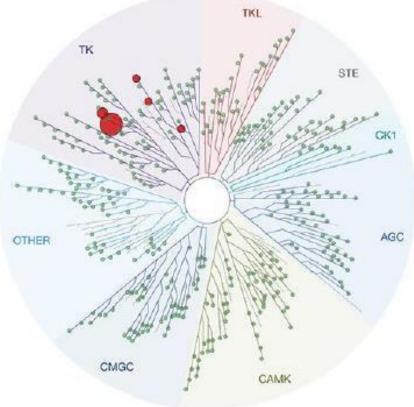


BTK Selectivity



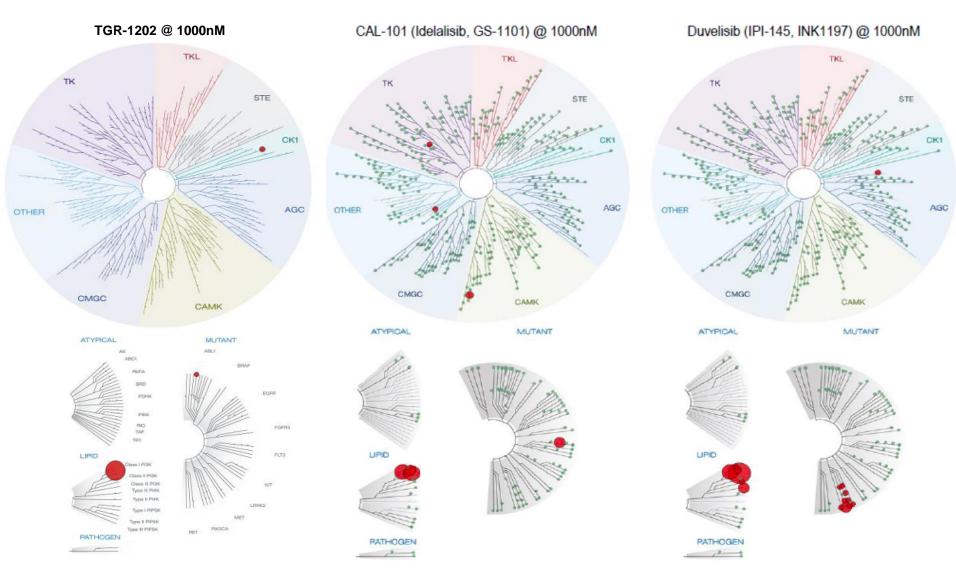


008-001-068 (Acalabrutinib) @ 1000nM



Other PI3K-Delta Selectivity





What does the basic science teach us?



Author	Model	Relevant Findings
Okkenhaug, et. al Science 2002	KI Delta model	All other organs appeared to be normal, except mice developed a mild inflammatory bowel disease
Jou, et. al. Molecular and Cell Biology 2002	KO Delta model	Did not observe an inflammatory bowel disease in mice
Uno, et. al. Gastroenterology November 2010	Double KI Delta – KO IL10	A mild spontaneous colitis was demonstrated in Delta KI mouse. Double KI-KO mice developed severe colitis.
Kaneda, et. al Nature November 2016	Role of Gamma	Macrophages lacking PI3Kγ activity induced pro-inflammatory cytokines such as IL12 with a concomitant reduction in IL10
Okkenhaug, et. al Blood 2007	Double KI/KO Delta –Gamma	Mice lacking PI3Kγ and PI3Kδ function developed eosinophilic inflammation in multiple mucosal organs

Idelalisib Caused Rapid and Serious Liver Toxicity in Front-Line Patients



CLINICAL TRIALS AND OBSERVATIONS Idelalisib given front-line for treatment of chronic lymphocytic leukemia causes frequent immune-mediated

Benjamin L. Lampson, Jennifer R. Brown, et.al. BLOOD, 14 JULY 2016 x VOLUME 128, NUMBER 2

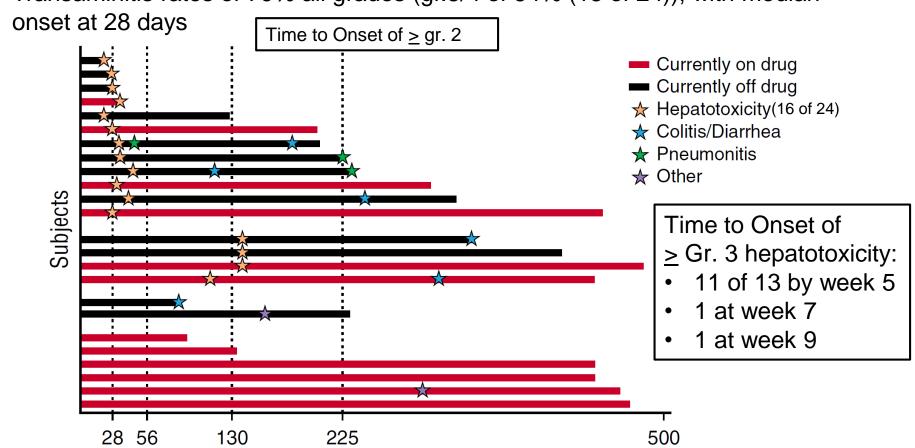
hepatotoxicity

Idelalisib Related Hepatotoxicity



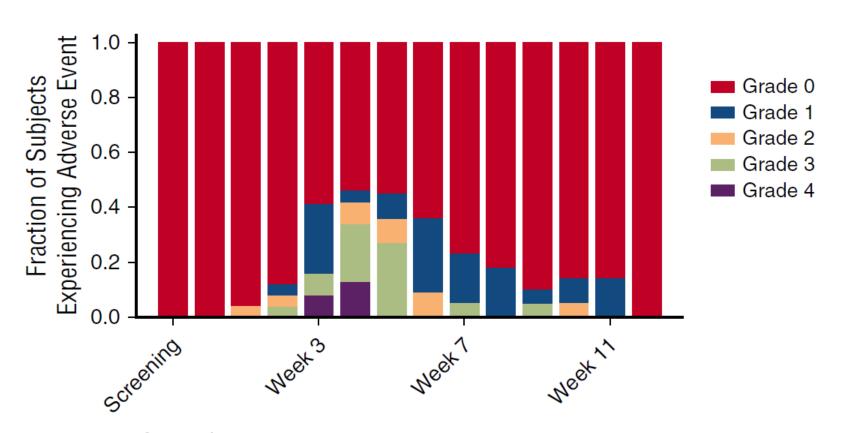
- Brown et al reported high rates of immune-mediated hepatotoxicity in patients with front-line CLL treated with idelalisib
- Decreases in Treg population implicated

Transaminitis rates of 79% all grades (gr.3/4 of 54% (13 of 24)), with median



Idelalisib Liver Tox in Front-line Patients





- Almost all Gr. 3/4 liver tox for idelalisib was observed by week 5
 - Gr. 3/4 Liver Tox at 6 weeks 46% (11/24 patients)
 - All Grades Liver Tox at 6 weeks 79% (19/24 patients)

Idelalisib Label



"Limitation of use: Zydelig is not indicated and is not recommended for first-line treatment of any patient"

First UNITY-CLL DSMB on November 21, 2016

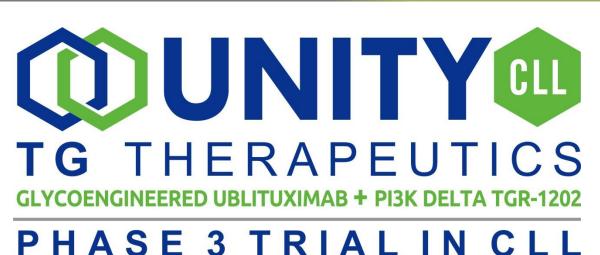


- UNITY-CLL is enrolling front-line and previously treated patients with CLL
- As of DSMB meeting, there were a comparable number of front-line patients on study for comparable timeframe as the Jennifer Brown study

"The DSMB did not find any safety concerns and recommended the study continue without modification"

Phase 3 Clinical Trial TG-1101 + TGR-1202 ("TG-1303")





*Conducted pursuant to SPA

Gazyva + Chlorambucil Randomize (1:1:1:1) _{N=~450}

TG-1101 + TGR-1202

TG-1101

TGR-1202

STOP

Second Interim for AA...Final for **Full Approval**

First Interim to assess contribution

UNITY-CLL Study Update



Site Status:

- ~100 sites for UNITY-CLL open to date in US
- Ex-US sites opening bringing total expected to 150+
- By end of March should have nearly all sites open globally

Enrollment Update:

- ~140 randomized patients at December 31, 2016
- Enrolled ~25 patients in December 2016
- Expect to conduct interim analysis to eliminate arms midyear
- On track for completing enrollment by Q1 2018 (updating guidance from 1H18)

Is there a need for TGR-1202?



Most common ibrutinib related toxicities as reasons for discontinuation		
Relapsed CLL (%)	Front-line CLL (%)	
Atrial fibrillation (12.3)		
Infection (10.7)	Arthralgia (41.6)	
Pneumonitis (9.9)	Atrial fibrillation (25)	
Bleeding (9)	Rash (16)	
Diarrhea (6.6)		

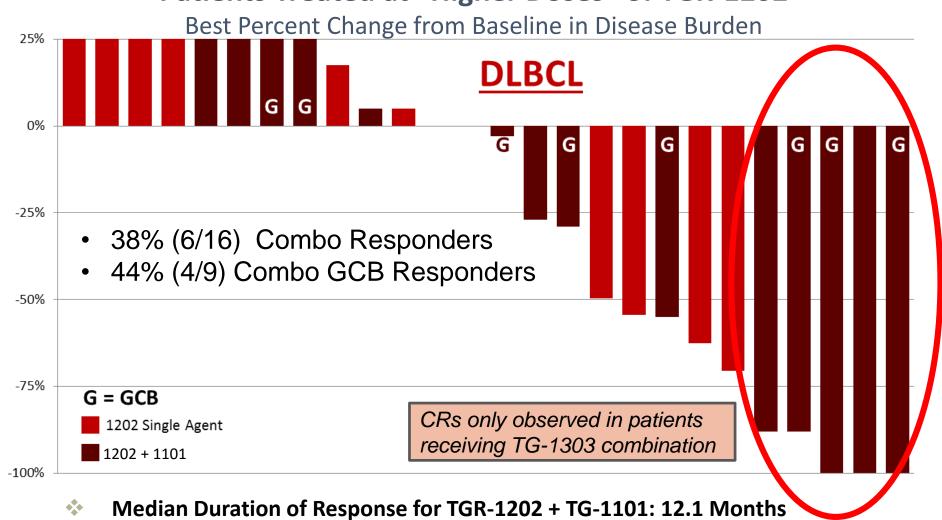
Median times to ibrutinib discontinuation stratified by toxicity		
Bleeding	8 months	
Diarrhea	7.5 months	
Atrial fibrillation	7 months	
Infection	6 months	
Arthralgia	5 months	
Pneumonitis	4.5 months	
Rash	3.5 months	

- In the largest reported series on ibrutinb treated CLL patients, 40% of patients have discontinued ibrutinib during this observation period.
- •Ibrutinib intolerance was the most common reason for discontinuation in all settings.
- •~20% of patients are ineligible for ibrutinib because of DDI, CV risk and bleeding risk

Integrated Analysis (TGR-1202 Monotherapy and TGR-1202 + TG-1101): DLBCL Efficacy





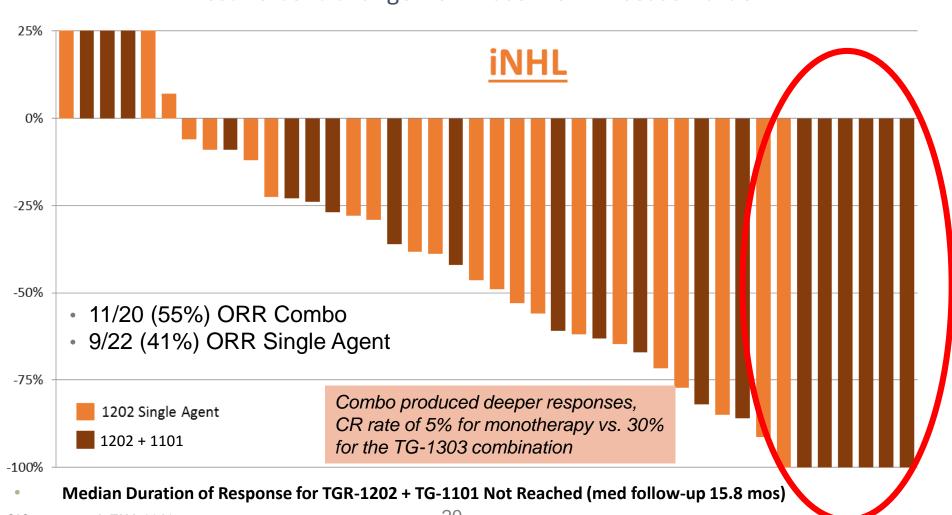


Integrated Analysis (TGR-1202 Monotherapy and TGR-1202 + TG-1101): iNHL Efficacy



Patients Treated at "Higher Doses" of TGR-1202

Best Percent Change from Baseline in Disease Burden



Recent Kite Data DLBCL



Kite Data

n = 51

• ORR: 39% at 3 months

• CR: 33%

- 2 deaths from treatment
- 29% Gr.3/4 Febrile neutropenia
- 34% Gr. 3/4 Neuro-tox
- 26% Gr. 3/4 Encephalopathy
- 18% Gr. 3/4 Cytokine Release Syndrome (CRS)
- ~50% of "responders" progressed btw months 2 and 3

TG-1303

n=16

• ORR: 38% at 3 months

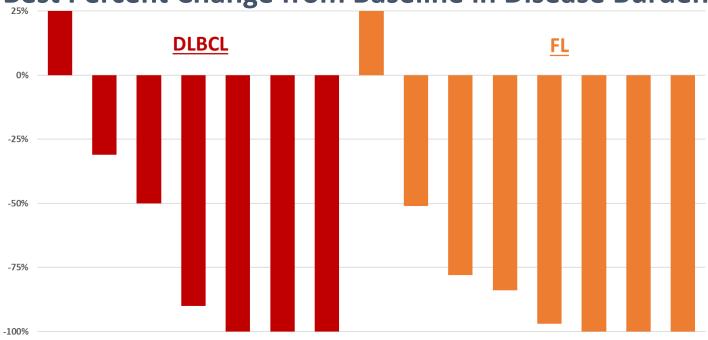
CR: 19%

- 0 deaths from treatment
- 0% Febrile neutropenia
- 0% Neuro-tox
- 0% Encephalopathy
- 0% Cytokine Release Syndrome (CRS)
- Median Duration: 12.1 Months

TG-1101 + TGR-1202 + Benda: Efficacy



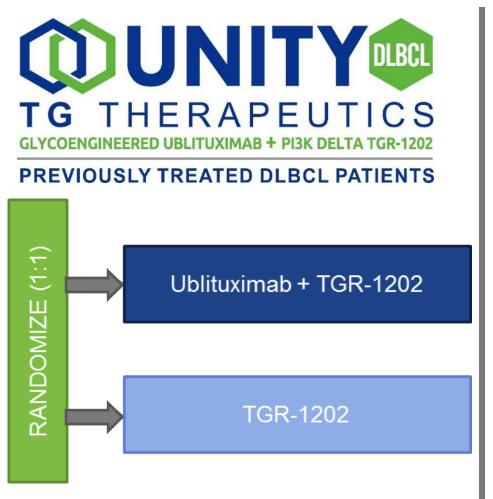
Best Percent Change from Baseline in Disease Burden



Typo	Pts	CR	PR	ORR	SD	PD
Туре	(n)	(n)	(n)	n (%)	(n)	(n)
DLBCL	7	3	2	5 (71%)	1	1
FL	8	3	4	7 (88%)	-	1
Total	15	6	6	12 (80%)	1	2

UNITY-DLBCL – Phase 2b Registration Directed Trial

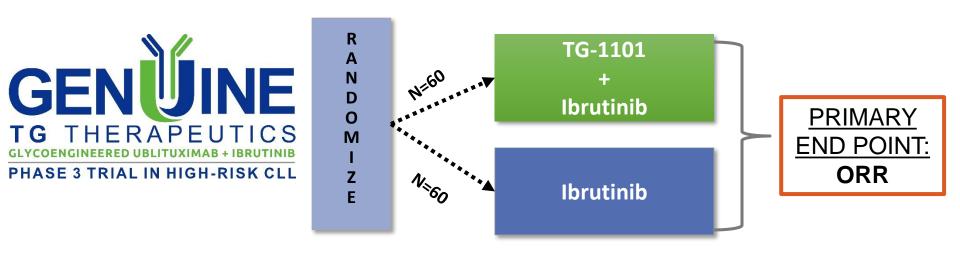




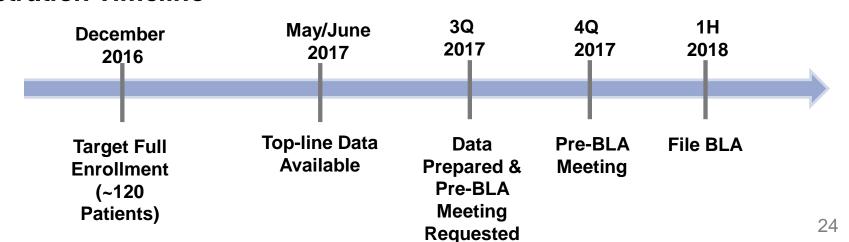
- Expect >50 sites to participate
- EU to open 1H 2017
- First Interim analysis expected mid-17
 - Expectation to drop TGR-1202 as "Futile"
 - 1303 arm to continue to ~100 patients
 - Replace TGR-1202 arm with 1303 + Benda

Revised Phase 3 GENUINE Trial For Potential Accelerated Approval





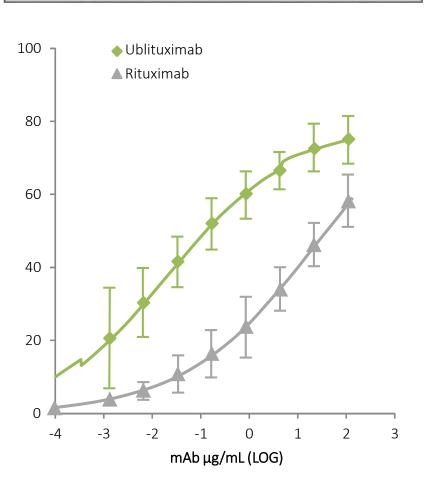
Registration Timeline



Superior B-Cell Depletion and Potency

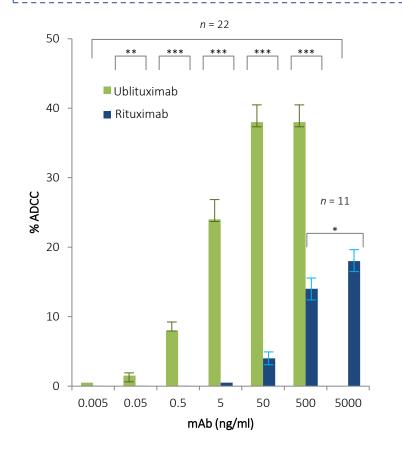


Enhanced ADCC Activity Results in Superior *in vitro* B-Cell Depletion



Ublituximab vs. Rituximab ADCC Induction in CLL Patient Donor Cell Lines

Published, peer reviewed pre-clinical data demonstrates equivalent ADCC levels using Ublituximab at 100 times less concentration of Rituximab

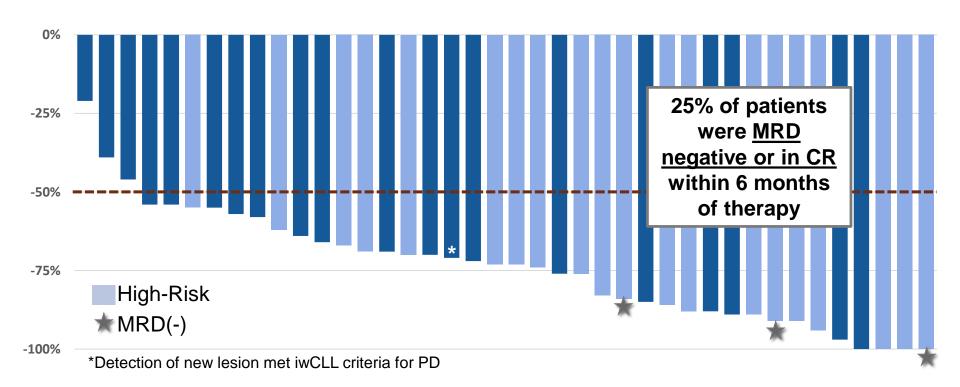


Phase II TG-1101 + Ibrutinib Efficacy: Nodal Reductions



Best Percent Change from Baseline in Nodal Size

Efficacy Assessed at Week 8 and Week 20 Only



- 88% ORR with 95% ORR in high risk patients
- Well tolerated with few Gr. 3/4 events

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GENUINE Control Arm Historical ORR



Ibrutinib Single Agent ORR

Study (Ibrutinib Label)	Patient Population	n	Ibrutinib ORR	Median follow up time
Study 1: Ibrutinib Open Label Multicenter trial	Previously treated CLL	48	58.3% *NO CR's	20.9 months * NEJM, Byrd 2013
Study 2: Randomized open label study of Ibrutinib v Ofatumumab (RESONATE)	Previously treated CLL	136	42.6% *NO CR's	9.4 months *NEJM, Byrd 2014
Study 2: RESONATE	17p only	63	47.6% *NO CR's	9.4 months *NEJM, Byrd 2014

Labeled Range – ORR Ibrutinib single agent:

~43% - 58.3%, with no CRs

Expected median follow-up for GENUINE Study: ~12 months

GENUINE Treatment Arm Target ORR



Ibrutinib Combo Data per Label				
Study	Patient Population	n	ORR	
ibrutinib plus bendamustine rituxan	Previously treated CLL or SLL	289	82.7% (8.3% CR)	

Target ORR for GENUINE: 80-85% without Chemo

2017 Major Milestones



1H 2017	Topline data available for GENUINE Trial
1H 2017	Present data from Phase 2 MS trial at major medical meeting
1H 2017	Initiate MS Phase 3 Trial
1H 2017	Present updated clinical data at ASCO, EHA & Lugano
2H 2017	Decision on filing of GENUINE for Accelerated Approval
2H 2017	UNITY-CLL enrollment update & interim analysis of single agent arms
2H 2017	Present interim data from Phase 2b UNITY-DLBCL
2H 2017	Present updated clinical data at ASH 2017

Corporate & Financial



Key Financial Statistics

Ticker: TGTX (NasdaqCM)

Price: \$5.00 (close as of January 10, 2017)

Shares: ~55M (fully-diluted)

Cash: ~\$60.7M (as of September 30, 2016)

Runway: Into the first half of 2018





TG Therapeutics

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