

## **Next Generation Cancer Therapies**

August 2020

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#### Next-generation cancer therapies

#### **Trilaciclib**

First-in-class myelopreservation therapy

#### Rintodestrant

Potential best-in-class oral SERD

#### Lerociclib

Differentiated oral CDK4/6 inhibitor



#### Preparing for next stage of growth

R&D and commercial expertise to bring trilaciclib to

patients in the U.S.

**Trilaciclib** launch 1H21

co-promotion with Boehringer Ingelheim

**Rintodestrant** data 2H21

combination with palbociclib

**Strong cash** position

funds operations into 2022





#### Current chemotherapy landscape

~1 M U.S. patients receive chemotherapy annually





Chemotherapy remains the cornerstone of treatment for most cancers

## Myelosuppression

is currently an unavoidable consequence of chemo that impacts patient safety, QoL and costs to the HC system

Neutropenia and anemia

Impaired anti-tumor immunity

Risk of infection: G-CSF use, associated bone pain RBC transfusions and ESA rescue

Fatigue

Hospitalizations and unscheduled office visits

Chemotherapy dose delays and reductions

Risk of bleeding: platelet transfusions



# Patient experience of myelosuppression: burdensome and far-reaching

89%

#### OF CANCER PATIENTS

with myelosuppression rate it as having a moderate to major impact on their life\*

"...the overall fatigue was the worst. It stole my energy and joy for both life and family. It made me want to quit chemo numerous times."

"I don't feel like doing ANYTHING some days. It's like depression but completely physical. Of course, everyone's trying to be supportive. And I have my own obligations, but I feel like a burden."

"...it so happened I had a father dying in the hospital and I was strictly forbidden from entering a hospital (except my own)."



# Our solution: Trilaciclib

## First-in-class

myelopreservation therapy that has the potential to make chemotherapy safer, improve the patient experience, and in some settings, help patients live longer



#### Our solution: trilaciclib

#### **Phase 2 trial findings:**



**Preserves** bone marrow and immune system function from damage by chemo



**Protects** patients from the dangerous side effects of myelosuppression



In some settings, may help patients live longer



Can be incorporated into multiple chemo regimens, including I/O + chemo



30-minute IV infusion prior to chemo; **given first time and every time** chemo is administered

- ✓ Breakthrough Therapy Designation for SCLC
- ✓ NDA submitted June 2020
- ✓ U.S. co-promotion with Boehringer Ingelheim



# Opportunity to improve patient outcomes across multiple indications

### ~1 million\* patients in planned indications

69,000

Small Cell Lung Cancer >350,000

Adjuvant Breast Cancer

>600,000

Colorectal Cancer

20,000

Metastatic
Triple-Negative
Breast Cancer



#### First potential indication: small cell lung cancer (SCLC)

In three randomized trials, trilaciclib reduced chemotherapy-related toxicity and need for rescue interventions

- ✓ Significant improvement in patient experience, notably less fatigue
- ✓ Less neutropenia and anemia
- ✓ Reduced G-CSF usage and transfusions
- ✓ NDA submitted June 2020



#### Treatment experience in SCLC

## Patient survey findings\* (patients not enrolled in trilaciclib trials)

- → 88% of SCLC respondents reported that myelosuppression had moderate to major impact on their life
- → Of those, 63% noted fatigue as their biggest myelosuppressive issue
- → Of those who noted fatigue, average rating of 8.4 on 10-point scale of how bothersome fatigue was

#### Patient Reported Outcomes data (n=235)

(pooled from three randomized, placebo-controlled, double-blind trials)

Subscale	< <trilaciclib better<="" th=""><th>Placebo Better&gt;&gt;</th><th>Hazard Ratio (95% CI)</th></trilaciclib>	Placebo Better>>	Hazard Ratio (95% CI)	
Fatigue	<b>—</b>		0.56 (0.37, 0.85)	
Functional Well-being	<b>—</b>		0.44 (0.28, 0.70)	
Physical Well-being	<b>—</b>		0.62 (0.39, 0.97)	
Anemia – Trial Outcome Index	<b> </b>		0.53 (0.34, 0.83)	
Functional Assessment of Cancer Treatment - Anemia	<del></del>		0.46 (0.29, 0.72)	
1				

Updated from data presented at MASCC 2019



# Significant multi-lineage myelopreservation benefits support improved patient experience\*

		PLACEBO + CHEMO	TRILA + CHEMO	
	Patients (intent-to-treat population)	119	123	P-VALUE**
	Mean duration (days) of severe neutropenia in cycle 1 (SD)	4 (5.1)	0 (1.8)	<0.0001
Neutrophils	Occurrence of severe neutropenia	63 (52.9%)	14 (11.4%)	<0.0001
	Occurrence of G-CSF administration	67 (56.3%)	35 (28.5%)	<0.0001
	Incidence of G-CSF administration (event rate per 100 cycles)	40.6	16.4	<0.0001
	Occurrence of Grade 3/4 anemia	38 (31.9%)	25 (20.3%)	0.0279
Red Blood Cells	Occurrence of ESA administration	14 (11.8)	4 (3.3%)	0.0254
	Occurrence of RBC transfusions on/after 5 weeks	31 (26.1%)	18 (14.6%)	0.0252
	Incidence of RBC transfusions on/after 5 weeks (event rate per 100 weeks)	3.1	1.5	0.0027
Platelets	Occurrence of Grade 3/4 thrombocytopenia	43 (36.1%)	24 (19.5%)	0.0067



#### Roadmap to establish new standard of care

#### **Barriers**

#### **Critical Success Factors**

Myelosuppression under-recognized as unmet need



Increase Awareness of Impact of Chemo Induced Myelosuppression on Lives of Patients

- Increase awareness of impact on patients
- Build strong KOL and other critical stakeholders

Entrenched "rescue" behaviors



Establish Trilaciclib's Multi-Lineage, Myelopreservation Benefit as SOC in SCLC

- Advance inclusion across all relevant guidelines
- Drive rapid awareness among early adopters
- Demonstrate value

Access environment for supportive care especially challenging



**Optimize Early Experience** 

- Minimize access barriers at launch
- Ensure swift adoption to formularies, pathways, EMR systems and order sets at key accounts

#### **Executional Excellence at Launch**

**Field Sales Force** 

**Medical Affairs** 

**Marketing Strategy** 

**Market Access** 



#### Bringing trilaciclib to SCLC patients in the U.S.



**Key functional capabilities at G1: Marketing, Market Access, Medical Affairs** 



Co-promotion agreement with experienced Boehringer Ingelheim oncology sales force

#### **Commercial Objectives**



Increase awareness of impact of chemo-induced myelosuppression on lives of patients



Establish trilaciclib's multi-lineage, myelopreservation benefit as SOC in SCLC



Optimize early experience by ensuring access



#### Bringing trilaciclib to patients



3-year co-promotion in U.S. for first potential indication of SCLC



Development and commercialization rights in Greater China



#### Pursuing additional indications: breast cancer

# Preliminary survival benefit observed in mTNBC randomized trial



- ✓ Patients able to tolerate more cycles of chemo, without increased toxicity
- ✓ Reduced rate of RBC transfusions
- ✓ Patient-reported outcomes data support improved patient experience
- ✓ Significant improvement in OS; final data in 4Q20



#### Preliminary overall survival benefit in mTNBC

	Control (GC only) (Group 1)	Trilaciclib + GC (Group 2)	Trilaciclib + GC (Group 3)	Trilaciclib + GC (Group 2+3)
ITT population	N = 34	N = 33	N = 35	N = 68
Median OS (months)	12.6	20.1	17.8	20.1
HR		0.33	0.34	0.36
p-value		0.028	0.0023	0.0015
Median PFS (months)	5.7	9.4	7.3	8.8
HR		0.60	0.59	0.59
p-value		0.13	0.12	0.063

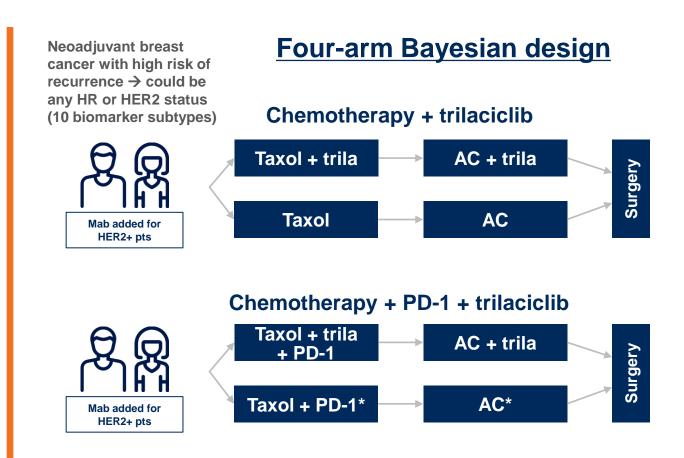
Hypothesis: trilaciclib's preservation of immune system function during chemo drives OS benefit



#### Breast cancer neoadjuvant trial: I-SPY 2 initiated in 2Q20

#### **Goals of Phase 2 trial**

- Evaluate trilaciclib in a broadly-used chemo regimen (Taxol + AC)
- → Evaluate trilaciclib in all breast cancer sub-types (ER+, HER2+, TNBC)
- Endpoints: pathological complete response (pathCR), myelopreservation
- Data in 2023





AC = adriamycin and cyclophosphamide

<sup>\*</sup> Taxol + PD-1 followed by AC will potentially be historical data

# Pursuing additional indications: metastatic colorectal cancer (mCRC)

# Primary endpoints: myelopreservation measures



- ✓ Initiating Phase 3 trial in 4Q20
- ✓ Trial design incorporates FDA feedback
- ✓ Myelopreservation, PRO, and survival endpoints
- ✓ Data in 2023



#### Next steps for trilaciclib across multiple indications

#### **SCLC**

- ✓ NDA submission in June 2020
- PDUFA date assigned in August 2020 (pending acceptance)
- Launch-ready early 2021

#### **Breast Cancer**

- ✓ Initiated I-SPY2 trial in 2Q20
- Final OS data from mTNBC trial in 4Q20

#### **Colorectal Cancer**

- ✓ Completed FDA pre-Phase 3 meeting
- Initiate Phase 3 trial in 4Q20



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#### Significant potential to improve ER+ breast cancer treatment

>450,000 2L, 1L, and adjuvant ER+ BC patients globally

89,000 <sub>2L</sub>

median duration of therapy

14 months

139,000 1L

33 months

223,000

Adjuvant (Stage II / III)

60 months



#### Improving options for ER+, HER2- breast cancer

- → ER degradation shown to be most effective means of blocking estrogen signaling in ER+, HER2- breast cancer
- Only available SERD is fulvestrant painful intramuscular injections

Opportunity to improve options in first-line and adjuvant settings with oral SERD



# Rintodestrant Phase 1 data: well tolerated with proof-of-concept anti-tumor activity

Well tolerated; favorable safety profile observed at all dose levels

No dose-limiting toxicities observed; maximum tolerated dose not reached

AEs mostly Grade 1, no bradycardia or cytopenias

18F-FES PET scans:ER occupancy ≥ 80% in doses ≥ 600 mg

Preliminary evidence of anti-tumor activity in heavily pre-treated population



#### Assessing the potential of rintodestrant

Phase 1/2a program w/ ~110 patients enrolled by YE20: additional data 4Q20

- → 67 patients enrolled in Phase 1/2a trial, including expansion cohorts of 600 mg and 1,000 mg monotherapy
- → 800 mg QD selected as dose for further development
  - **Initiated additional arm** in 2Q20
- (~40 patients) to evaluate rintodestrant (800 mg) + palbociclib



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#### Lerociclib: differentiated oral CDK4/6 inhibitor

less monitoring

	DOSE-LIMITING NEUTROPENIA	MONITORING REQUIREMENT	DOSING HOLIDAY	QT PROLONGATION	DILI	GRADE 3/4 DIARRHEA	VTE
Ibrance <sup>®</sup>	X	X	X	_	-	-	-
Kisqali <sup>®</sup>	х	х	Х	Х	х	_	_
Verzenio®	X	X	-	_	Х	X	х
	1	Potential for					

Differentiated PK and tolerability profile

Continuous dosing (no holiday) with fewer dose-limiting toxicities

Potential for less CBC monitoring, reducing patient & physician burden



lerociclib

#### Global agreements accelerate further development



Development and commercialization rights in U.S., EU, Japan and other markets





Development and commercialization rights in Asia-Pacific (except Japan)



## 2020 – 2021: key milestones

	1H20	2H20	2021	
TRILACICLIB	SMALL CELL LUNG CANCER  ✓ NDA submission  ✓ U.S. commercial collaboration		SMALL CELL LUNG CANCER U.S. launch	
	■ BREAST CANCER Initiate I-SPY 2 trial	BREAST CANCER OS update from Phase 2 TNBC trial		
	✓ COLORECTAL CANCER FDA pre-Phase 3 meeting	COLORECTAL CANCER Initiate Phase 3 trial		
RINTODESTRANT	✓ Initiate Phase 2 trial arm (palbociclib combination)	Monotherapy data update	Rinto/palbociclib data update	
LEROCICLIB	✓ Global development/ commercialization agreements	Data update		



#### Preparing for next stage of growth

R&D and commercial expertise to bring trilaciclib to

patients in the U.S.

Trilaciclib launch 1H21

co-promotion with Boehringer Ingelheim Rintodestrant data 2H21

combination with palbociclib

Strong cash position

funds operations into 2022



## G1 Therapeutics: improving outcomes in cancer treatment



Trilaciclib: near-term commercial opportunity to improve outcomes for patients receiving chemo



Rintodestrant: potential best-in-class oral SERD

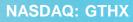


Global rights to rintodestrant and trilaciclib (ex-China) provide options for additional value-creating partnerships



Well funded with cash runway into 2022





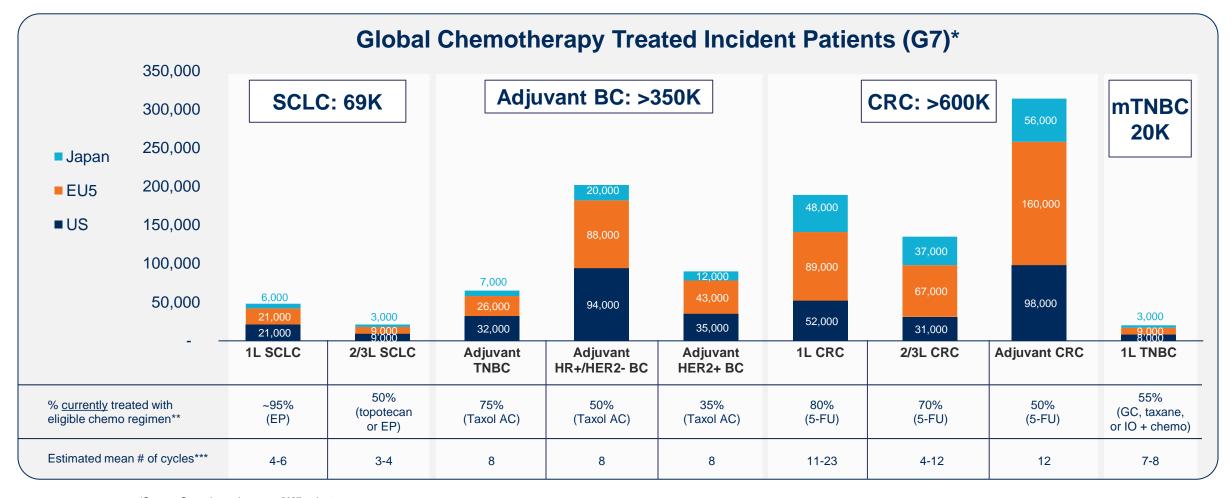


## **Appendix**



#### Potential to improve outcomes across tumor types

Trilaciclib used first time, and every time, patient receives chemotherapy





<sup>\*</sup>Source: Secondary epi sources, 2027 estimates

<sup>\*\*</sup>EP refers to any regimen that includes etoposide + platinum; GC refers to gemcitabine/carboplatin; Taxol AC refers to Taxol + Adriamycin and cyclophosphamide; 5-FU refers to any regimen that includes fluorouracil (e.g., FOLFOX). In addition to CRC, pancreatic cancer, gastroesophageal cancer and squamous cell carcinoma of the head and neck (SCCHN) are also treated with 5-FU regimens (% currently treated with 5-FU regimens varies by tumor type and region)

<sup>\*\*\*</sup>Source: SCLC and TNBC: G1 Therapeutics' completed trials; CRC and Adjuvant BC: number of cycles for eligible chemo regimens from Decision Resources Group Treatment Landscape and Forecast Assumptions 2019 Reports (CRC and BC)