



# Next Generation Cancer Therapies

March 2020

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# Next-generation cancer therapies

## Trilaciclib

First-in-class  
myelopreservation  
therapy

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## Rintodestrant

(G1T48)

Potential best-in-class  
oral SERD

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## Lerociclib

Differentiated  
oral CDK4/6  
inhibitor

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**Committed to improving lives  
and outcomes of people living  
with cancer**



# Current chemotherapy landscape

**~1M**  
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).”*



**What if we can improve the  
chemo experience for  
people living with cancer?**



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



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



**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

**FDA  
Breakthrough  
Therapy  
Designation for  
SCLC**

# Body of evidence in SCLC: three randomized trials

**Trilaciclib reduces 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**

Three randomized, placebo-controlled, double-blind trials in:  
1<sup>st</sup>-line SCLC (+ etop/carbo), 1<sup>st</sup>-line SCLC (+ etop/carbo/Tecentriq), 2<sup>nd</sup>/3<sup>rd</sup>-line SCLC (+ topotecan)

# Improved 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   Placebo Better>>	Hazard Ratio (95% CI)
Fatigue		0.56 (0.37, 0.85)
Functional Well-being		0.44 (0.28, 0.70)
Physical Well-being		0.62 (0.39, 0.97)
Anemia – Trial Outcome Index		0.53 (0.34, 0.83)
Functional Assessment of Cancer Treatment - Anemia		0.46 (0.29, 0.72)
1		

\*Sterling IRB-reviewed online survey in 4Q19

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*
Neutrophils	Mean duration (days) of severe neutropenia in cycle 1 (SD)	4 (5.1)	0 (1.8)	<0.0001
	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
Red Blood Cells	Occurrence of Grade 3/4 anemia	38 (31.9%)	25 (20.3%)	0.0279
	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



# Preparing to bring trilaciclib to SCLC patients

## U.S.

**Rolling NDA submission initiated 4Q19;  
expect to complete submission 2Q20**

Building strong, functional capabilities in U.S.



## Ex-U.S.

Planning to submit MAA in 4Q20

**Evaluating partnership opportunities to commercialize trilaciclib ex-U.S.**

# 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

# 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
<b>Median OS (months)</b>	<b>12.6</b>	<b>20.1</b>	<b>17.8</b>	<b>20.1</b>
<b>HR</b>		<b>0.33</b>	<b>0.34</b>	<b>0.36</b>
<b>p-value</b>		<b>0.028</b>	<b>0.0023</b>	<b>0.0015</b>
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

# Next step in breast cancer: I-SPY 2 neoadjuvant trial

## Goals of Phase 2 trial

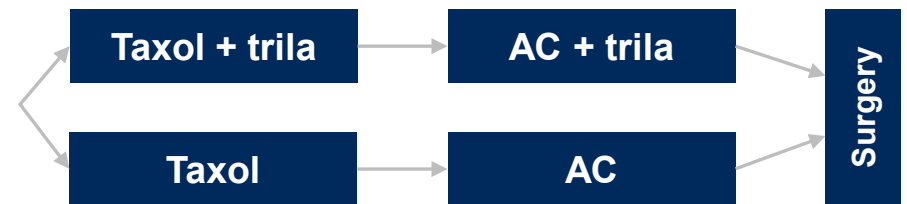
- Evaluate trilaciclib in broadly-used chemo regimens (e.g. Taxol + AC)
- Evaluate trilaciclib in all breast cancer sub-types (ER+, HER2+, TNBC)
- Evaluate impact of trilaciclib on tumor immune microenvironment +/- PD-1
- Endpoints: biomarkers, efficacy and myelopreservation

Neoadjuvant breast cancer with high risk of recurrence → could be any HR or HER2 status (10 biomarker subtypes)

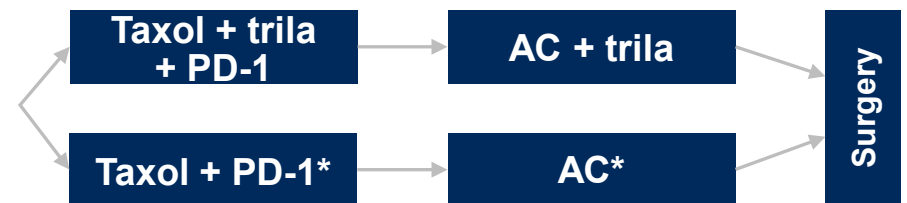


## Four-arm Bayesian design

### Chemotherapy + trilaciclib



### Chemotherapy + PD-1 + trilaciclib



AC = adriamycin and cyclophosphamide

\* Taxol + PD-1 followed by AC will potentially be historical data



# Opportunity to improve patient outcomes across multiple indications

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

**68,000**

Small Cell  
Lung Cancer

**>350,000**

Adjuvant Breast  
Cancer

**>500,000**

Colorectal Cancer

**20,000**

Metastatic  
Triple-Negative  
Breast Cancer

# Next steps for trilaciclib across multiple indications

## SCLC

- Complete NDA submission in 2Q20
- PDUFA date assigned in 3Q20 (pending acceptance)
- MAA submission in 4Q20

## Breast Cancer

- Initiate I-SPY2 trial in 2Q20
- Updated OS data from mTNBC trial in 4Q20

## Colorectal Cancer

- Initiate Phase 3 trial in 4Q20

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# 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

<sup>18</sup>F-FES PET scans:  
**ER occupancy  $\geq 80\%$**  in doses  $\geq 600$  mg

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

# Assessing the potential of rintodestrant

**Phase 1/2a program  
w/ ~100 patients  
enrolled by YE20:  
additional data 4Q20**

- ~65 patients enrolled in Phase 1/2a trial to **identify dose** (expansion cohorts of 600 mg and 1,000 mg monotherapy)
- Collecting PD data from biopsies to **confirm activity in the tumor**
- **Additional arm** to include another ~40 patients evaluating **rintodestrant + palbociclib combination**

# Significant potential to improve ER+ breast cancer treatment

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

**89,000**

**2L**

median duration  
of therapy

**14 months**

**139,000**

**1L**

**33 months**

**223,000**

**Adjuvant  
(Stage II / III)**

**60 months**

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# Lerociclib: differentiated oral CDK4/6 inhibitor

	DOSE-LIMITING NEUTROPENIA	MONITORING REQUIREMENT	DOSING HOLIDAY	QT PROLONGATION	DILI	GRADE 3/4 DIARRHEA	VTE
Ibrance®	X	X	X	—	—	—	—
Kisqali®	X	X	X	X	X	—	—
Verzenio®	X	X	—	—	X	X	X
lerociclib	—	Potential for less monitoring	—	—	—	—	—

Differentiated PK and tolerability profile

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

Potential for less CBC monitoring, reducing patient & physician burden

# Clinical overview: improved safety and tolerability profile

**Phase 1b/2 trial:** 110 patients lero + fulvestrant (similar entry criteria to PALOMA 3)

Low rates of Grade 4 neutropenia **without a drug holiday**

**Low rates of stomatitis and alopecia** across all dose levels

**65.2% clinical benefit rate;** median progression-free survival of 15 months (immature)

**Updated data 3Q20** on 150mg and 200mg BID cohorts, enabling Phase 3 dose selection

# 2020: near-term clinical and regulatory milestones

Therapy	Indication	2Q20	3Q20	4Q20
Trilaciclib	Small cell lung cancer	Complete NDA submission	PDUFA date assigned	MAA submission
	Breast cancer	Initiate I-SPY 2 trial		OS update from Phase 2 TNBC trial
	Metastatic colorectal cancer	FDA pre-Phase 3 meeting		Initiate Phase 3 trial
Rintodestrant (G1T48)	ER+, HER2- BC	Initiate Phase 2 expansion w/ palbociclib combination		Data update
Lerociclib	ER+, HER2- BC (+ fulvestrant)		Data update	

# COVID-19 impact statement

## Trilaciclib

- SCLC NDA filing on track for 2Q20
- CRC Phase 3 trial on track for initiation in 4Q20
- I-SPY 2 initiation on track for 2Q20; initial enrollment will be affected by COVID-19

## Rintodestrant

- Rinto monotherapy trial fully enrolled; G1 clinical operations team/external CROs are in contact with sites regularly to confirm ongoing participation and minimize drop-outs
- Rinto/palbo combination trial on track for initiation in 2Q20; initial enrollment will be affected by COVID-19 - plan to bring on additional sites this summer to hit full enrollment target of YE20

## General

- Across all programs, we do not anticipate significant supply chain delays or shortages
- Lerociclib trials: continuing to collect data and explore partnership opportunities

# G1 Therapeutics: improving outcomes in cancer treatment



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



**Rintodestrant: potential best-in-class oral SERD**



**Global rights to all compounds provides multiple options for value-creating partnerships**



**Well funded with cash runway into 2H21**





# Appendix

# Potential to improve outcomes across tumor types

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

## Global Chemotherapy Treated Incident Patients (G7)\*

