



Next Generation Cancer Therapies

July 2020

Forward-looking statements

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



Next-generation cancer therapies

Trilaciclib

First-in-class
myelopreservation
therapy

Rintodestrant

Potential best-in-class
oral SERD

Lerociclib

Differentiated
oral CDK4/6
inhibitor

2020 – 2021: key milestones

● TRILACICLIB

SMALL CELL LUNG CANCER

- ✓ NDA submission: June 2020
- ✓ U.S. commercial collaboration
 - Commercial launch: 1H21

BREAST CANCER

- ✓ Initiate I-SPY 2 trial: 2Q20
 - OS update from Phase 2 TNBC trial: 4Q20

COLORECTAL CANCER

- ✓ FDA pre-Phase 3 meeting
 - Initiate Phase 3 trial: 4Q20

● RINTODESTRANT

ER+, HER2- BC

- ✓ Initiate Phase 2 (palbociclib combination): 2Q20
 - Monotherapy data update: 4Q20

● LEROCICLIB

ER+, HER2- BC (+ fulvestrant)

- ✓ Development/commercialization partnership – Greater China
 - Data update: 3Q20

**What if we can improve the
chemo experience for
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

Hospitalizations and
unscheduled office
visits

Risk of infection:
G-CSF use,
associated
bone pain

Chemotherapy dose
delays and
reductions

RBC transfusions
and ESA rescue

Fatigue

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



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

✓ **Breakthrough
Therapy
Designation for
SCLC**

✓ **NDA submitted
June 2020**

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:
1st-line SCLC (+ etop/carbo), 1st-line SCLC (+ etop/carbo/Tecentriq), 2nd/3rd-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		

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.

NDA submitted June 2020

Building functional capabilities in U.S.

**Key Account
Managers**

**Medical Science
Liaisons**

**National,
Government
Acct Managers**

**Field
Reimbursement
Managers**

**Co-promotion agreement with
experienced Boehringer Ingelheim
oncology sales force**

Ex-U.S.

**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
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

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

Goals of Phase 2 trial

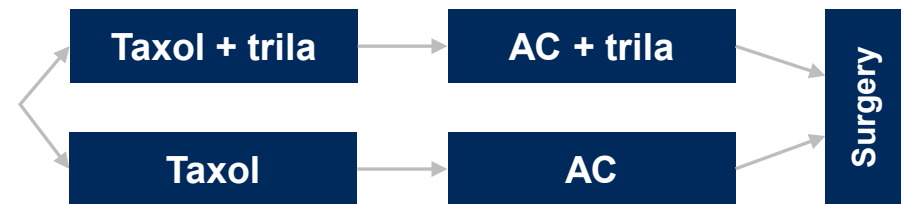
- Evaluate trilaciclib in broadly-used chemo regimens (e.g. Taxol + AC)
- Evaluate trilaciclib in all breast cancer sub-types (ER+, HER2+, TNBC)
- Evaluate impact of trilaciclib on tumor immune microenvironment +/- PD-1
- Endpoints: biomarkers, efficacy and myelopreservation

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

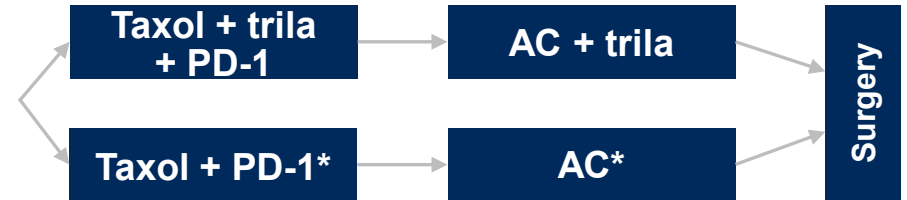


Four-arm Bayesian design

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

69,000

Small Cell
Lung Cancer

>350,000

Adjuvant Breast
Cancer

>600,000

Colorectal Cancer

20,000

Metastatic
Triple-Negative
Breast Cancer

Next steps for trilaciclib across multiple indications

SCLC

- Completed NDA submission in June 2020
- PDUFA date assigned in August 2020 (pending acceptance)

Breast Cancer

- Initiated I-SPY2 trial in 2Q20
- Updated 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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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 $\geq 80\%$ 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/ ~100 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
- Based on totality of data, **800 mg QD selected as dose for further development**
- **Initiated additional arm** in 2Q20 (~40 patients) to evaluate **rintodestrant (800 mg) + palbociclib**

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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therapy

Rintodestrant

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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 supporting 150 mg BID as go forward dose

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



Rights to all compounds provides multiple options for 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

Global Chemotherapy Treated Incident Patients (G7)*

