Viracta Therapeutics, Inc. May 2024



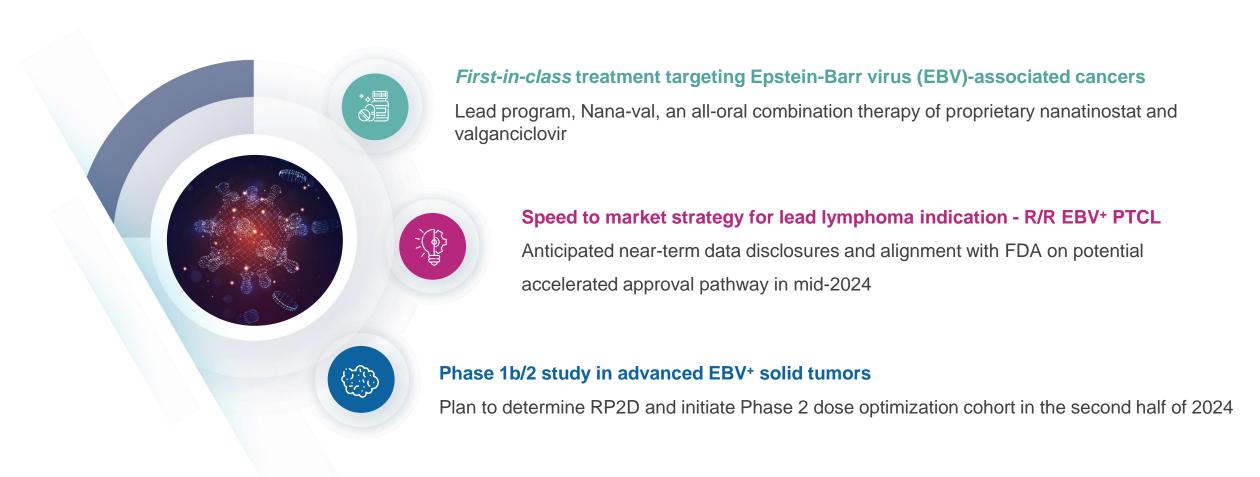
Forward Looking Statements

This communication contains "forward-looking" statements within the meaning of the Private Securities Litigation Reform Act of 1995, which are based on current expectations, estimates and projections based on information currently available to management of Viracta Therapeutics, Inc. ("Viracta" or the "Company"), including, without limitation, statements regarding: Viracta's development pipeline; the details, timeline and expected progress for Viracta's ongoing trials; the expected ability of Viracta to undertake certain activities and accomplish certain goals with respect to its clinical program in EBV+ lymphoma, EBV+ solid tumors, other virus-associated malignancies or its programs; expectations regarding future therapeutic and commercial potential with respect to Viracta's clinical program in EBV+ lymphoma, EBV+ solid tumors or other virus-associated malignancies; the ability of Viracta to support multiple new drug application filings and approvals from the NAVAL-1 trial; Viracta's plans to meet with the FDA to discuss preliminary results from the NAVAL-1 trial, amending the NAVAL-1 protocol to add patients as necessary to enable registration and provide other program updates; the expected future milestones and key upcoming events and their significance; and other statements that are not historical facts. Risks and uncertainties related to Viracta that may cause actual results to differ materially from those expressed or implied in any forward-looking statement include, but are not limited to: Viracta's ability to successfully enroll patients in and complete its ongoing and planned clinical trials; Viracta's plans to develop and commercialize its product candidates, including all oral combinations of nanatinostat and valganciclovir; the timing of initiation of Viracta's planned clinical trials; the timing of the availability of data from Viracta's clinical trials; the possibility that previous preclinical and clinical results may not be predictive of future clinical results; the timing of any planned investigational new drug application or new drug application; Viracta's plans to research, develop and commercialize its current and future product candidates; the clinical utility, potential benefits and market acceptance of Viracta's product candidates; Viracta's ability to identify additional products or product candidates with significant commercial potential; developments and projections relating to Viracta's competitors and its industry; the impact of government laws and regulations; Viracta's ability to protect its intellectual property position; and Viracta's estimates regarding future expenses, capital requirements and need for additional financing.

These risks and uncertainties may be amplified by the COVID-19 pandemic, which has caused significant economic uncertainty. If any of these risks materialize or underlying assumptions prove incorrect, actual results could differ materially from the results implied by these forward-looking statements. Additional risks and uncertainties that could cause actual outcomes and results to differ materially from those contemplated by the forward-looking statements are included under the caption "Risk Factors" and elsewhere in Viracta's most recent filings with the SEC and any subsequent reports on Form 10-K, Form 10-Q or Form 8-K filed with the SEC from time to time and available at www.sec.gov. The forward-looking statements included in this communication are made only as of the date hereof. Viracta assumes no obligation and does not intend to update these forward-looking statements, except as required by law or applicable regulation.



A Precision Oncology Company Focused on the Treatment and Prevention of Virus-Associated Cancers that Impact Patients Worldwide





Epstein-Barr Virus (EBV): A High Global Cancer Priority

EBV+ malignancies account for ~2% or >300,000 of all new lymphoma and solid tumor cases globally

| EBV positivity, by lymphoma subty | pe ^{1, 2,3} |
|--|----------------------|
| Peripheral T-cell lymphoma* (PTCL) | 40-65% |
| Diffuse large B-cell lymphoma (DLBCL) | 5-15% |
| Post-transplant lymphoproliferative disorders (PTLD) | 60-80% |

| EBV positivity, by solid tumor s | автурс |
|----------------------------------|--------|
| Nasopharyngeal carcinoma (NPC) | 75-95% |
| Gastric cancer (GC) | 8-10% |

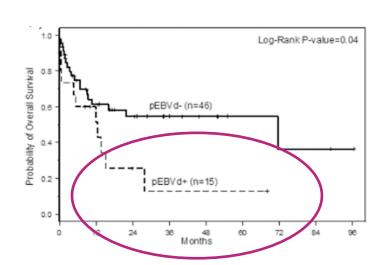
The incidence of EBV-associated cancers is likely greater, impacting more cancer types



Viracta is Developing a Precision Medicine to Treat Unique Subsets of EBV+ Lymphoma with Adverse Survival Outcomes

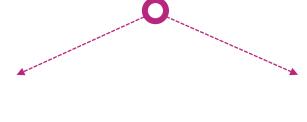
Currently limited or no targeted therapy options for EBV-associated cancers



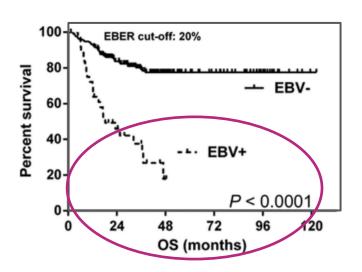


PTCL EBV+ Rate: 40-65%

Addressing patient populations with high unmet medical need



Diffuse Large B-cell Lymphoma² (Overall Survival)



DLBCL EBV+ Rate: 5-15%



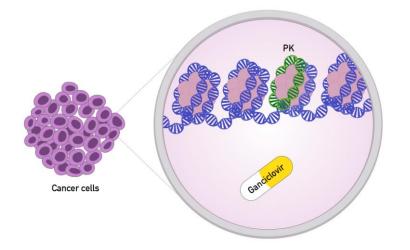
Nana-val: a Unique Approach to Targeting and Killing EBV+ Cancer Cells

Nanatinostat sensitizes EBV+ tumors to the cytotoxic effects of ganciclovir

LATENCY

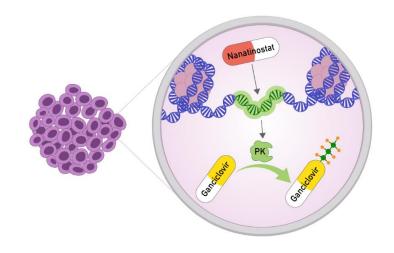
EBV is latent in cancer cells.

Valganciclovir, antiviral & cytotoxic prodrug of ganciclovir (GCV), is inactive in the absence of EBV protein kinase (PK)



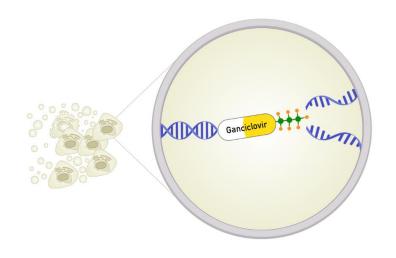
THE KICK

Nanatinostat potently induces expression of EBV protein kinase (PK), which activates GCV into its cytotoxic form



THE KILL

Activated GCV inhibits DNA replication leading to apoptosis of EBV+ cancer cells







Nana-val: R/R EBV+ Lymphoma Program

NAVAL-1: Pivotal Phase 2 Trial in R/R EBV+ Lymphomas

Global study, with an adaptive Simon 2-stage design, focused on the largest EBV-positive lymphoma patient populations

Patient population:

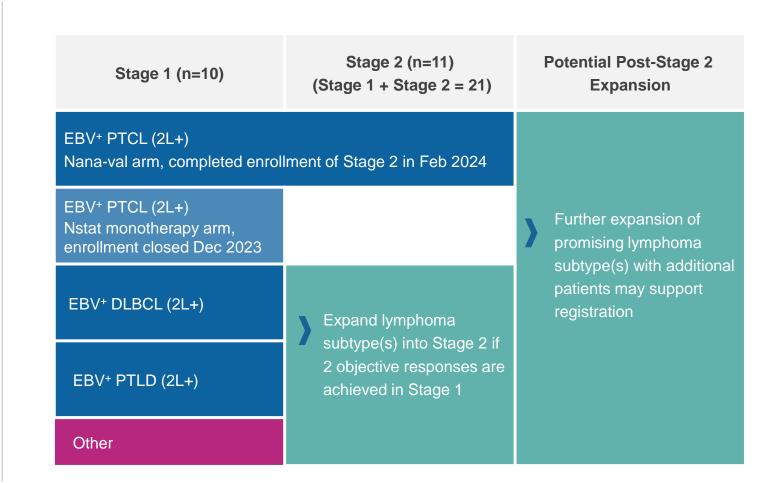
- R/R EBV+ lymphoma with ≥1 prior therapies and no curative options
 - Including pediatric EBV+ PTLD patients ≥12yrs

PTCL cohort randomization:

 Patients randomized to either Nana-val or Nstat monotherapy in Stage 1

Primary endpoint:

- Objective response rate (ORR) by independent central review
- Potential to further expand indications with promising antitumor activity after Stage 2







R/R EBV+ PTCL:

T-cell lymphoma with high unmet medical need

PTCL: Patient Journey and Treatment Options are Suboptimal*

No established second-line treatment for PTCL

1L Patients

Combination Chemotherapy

e.g. CHOP, CHOEP

CHP + CD30 antibody

R/R PTCL Patients

No Current SoC

Nana-val (2L Initial positioning)

Salvage Chemotherapy

Single agent

Combination regimen

Other Agents

HDAC inhibitors

CD30 antibody

Clinical Trial

Key Considerations¹

 PTCL is highly aggressive with limited treatment options

• 5-year event-free survival rate:

- PTCL, NOS ~25% overall

- EBV+ PTCL ~11%

 No current standard of care (SoC) for R/R **PTCL**

 For non-HCT candidates, chemotherapy is 1L, combination regimens preferred

 In R/R patients, single-agent chemotherapy is preferred to limit toxicity

• In R/R patients, other agents may be used guided by the subtype of PTCL and their toxicity profile

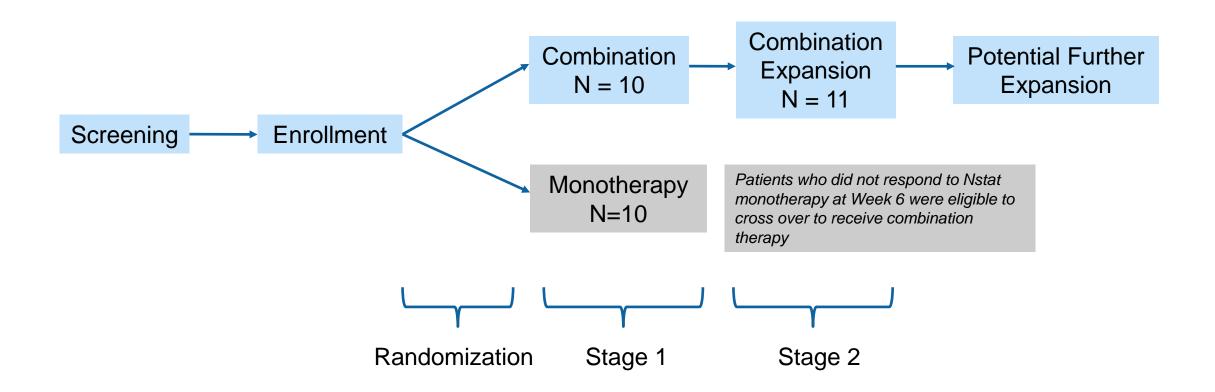


Diagnosis



NAVAL-1 R/R EBV+ PTCL Arm Study Design







NAVAL-1 Trial: Stage 1 Demographics for Patients with R/R EBV+ PTCL



65% of patients with ≥2 prior lines of therapy; 75% with advanced disease

| Characteristic | Patients Enrolled in Stage 1 (N = 20*) |
|--|---|
| Median age (y), [range] | 69 [47-78] |
| Male / Female | 16 / 4 |
| ECOG performance status, Unknown / 0 / 1 / 2 | 1/4/14/1 |
| Ethnicity WHITE ASIAN BLACK OR AFRICAN AMERICAN NOT REPORTED | 10 (50%) 7 (35%) 2 (10%) 1 (5%) |
| Prior lines of therapy • 1 • 2 • ≥3 Median number of prior therapies [range] | 7 (35%) 7 (35%) 6 (30%) 2 [1-6] |
| Stage • Unknown • I-II • III-IV | 2 (10%) 3 (15%) 15 (75%) |



Nana-val Provides Substantially Greater Anti-Tumor Response Than Nstat Monotherapy



NAVAL-1 Stage 1 Responses by Treatment Subgroup and Analysis Population

Intent-to-Treat Population¹

| PTCL Treatment Subgroup | ORR | CRR |
|-----------------------------------|------------|------------|
| Nana-val, Stage 1 (n=10) | 5/10 (50%) | 2/10 (20%) |
| Nstat monotherapy, Stage 1 (n=10) | 1/10 (10%) | 0/10 (0%) |

Efficacy-Evaluable Population^{1, 2}

| PTCL Treatment Subgroup | ORR | CRR |
|----------------------------------|-----------|-----------|
| Nana-val, Stage 1 (n=7) | 5/7 (71%) | 2/7 (29%) |
| Nstat monotherapy, Stage 1 (n=8) | 1/8 (13%) | 0/8 (0%) |



Consistent and Robust Anti-tumor Activity Demonstrated Across Nana-val Clinical Trials

Study 201 (Phase 1b/2 study) vs NAVAL-1 trial: Comparison of evaluable patients

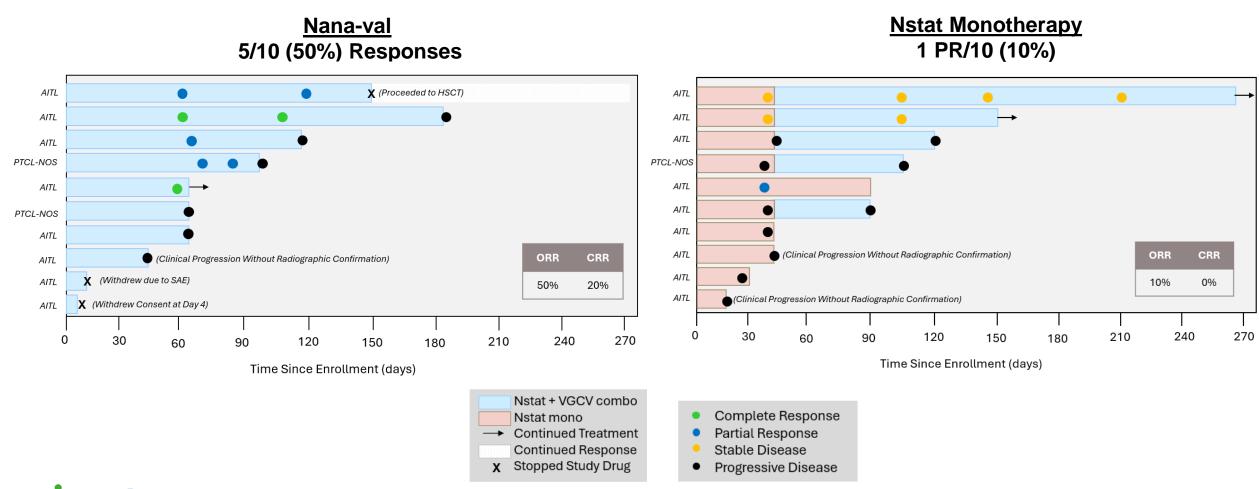
| HEMO 2023 | Study 201 ¹ (n=13) | NAVAL-1 2024 | NAVAL-1 (n=10) |
|-----------------------|----------------------------------|-----------------------|--------------------------|
| | Evaluable Patients (n=8) | | Evaluable Patients (n=7) |
| Response | | Response | |
| ORR | 4 (50%) | ORR | 5 (71%) |
| CR | 3 (38%) | CR | 2 (29%) |
| PR | 1 | PR | 3 |
| SD | 1 | SD | 0 |
| PD | 3 | PD | 2 |
| Clinical Benefit Rate | 5 (63%) | Clinical Benefit Rate | 5 (71%) |
| Data Cutoff | May 4, 2023 | Data Cutoff | Feb 7, 2024 |



Nana-val Resulted in 5x Greater Response Rate









Case Study: Responder at 16 Weeks Proceeded to HSCT and Continues in Response

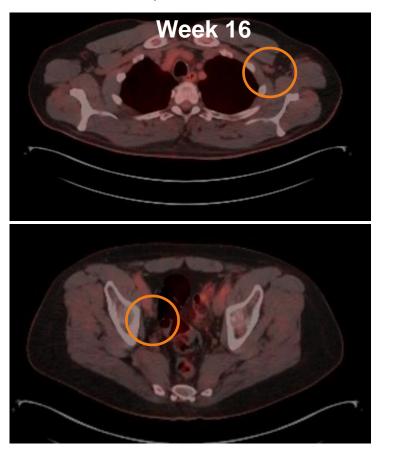
CT scans of confirmed PR

- 52-year-old male with R/R EBV+ AITL (axillary, retroperitoneal, inguinal, and pelvic lymphadenopathy)
- Previously treated with CHEOP followed by autologous stem cell transplant
- Treated with Nstat 20 mg days 1-4/week + VGCV 900 mg QD x 5 months then proceeded to allogeneic stem cell transplant
- Continues in response as of the most recent radiographic follow-up 260 days after the initial response on Nana-val



Courtesy of Dr. Brian Greenwell, Medical University of South Carolina







Updated 07-Feb

All-Oral Nana-val was Generally Well-Tolerated



Most Frequently Occurring (≥10%) Treatment-Related Treatment-Emergent Adverse Events by Severity Grade and Preferred Term

| Preferred Term ^[1] | Combination Nstat + VGCV Therapy (N=10) | | Nstat Monotherapy (N=10) | |
|-------------------------------|--|-----------|-----------------------------|-----------|
| | All ^[2] | G3+G4 | All | G3+G4 |
| Platelet count decreased | 2 (20.0%) | 1 (10.0%) | 1 (10.0%) | 0 |
| Anaemia | 1 (10.0%) | 0 | 5 (50.0%) | 4 (40.0%) |
| Fatigue | 1 (10.0%) | 0 | 3 (30.0%) | 0 |
| Decreased appetite | 1 (10.0%) | 0 | 3 (30.0%) | 0 |
| Nausea | 1 (10.0%) | 0 | 2 (20.0%) | 0 |
| Diarrhoea | 1 (10.0%) | 1 (10.0%) | 2 (20.0%) | 0 |
| Weight decreased | 1 (10.0%) | 0 | 0 | 0 |

¹Adverse events were coded to preferred terms using MedDRA, version 26.0

²One combination Nstat + VGCV therapy patient had G5 pancytopenia and sepsis



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R/R EBV+ PTCL: Speed to Market Strategy for Nana-val

Accelerated pace of enrollment supports speed to market strategy

| Milestone | Anticipated T | iming |
|---|---------------|----------|
| Complete enrollment of Stage 1 • 2 cohort arms: patients treated with nanatinostat monotherapy (n=10) or with Nana-val (n=10) | Q4 2023 | ✓ |
| Complete enrollment of Stage 2 | Q1 2024 | ✓ |
| Present topline Stage 1 data from both arms with an aim to clearly delineate the differentiation of Nanaval's 'Kick and Kill' MOA | Q2 2024 | ✓ |
| Engage with FDA to align on requirements for regulatory approval | Mid-2024 | |
| Enroll patients into the post-Phase 2 expansion cohort to support potential accelerated approval | Mid-2024 | |
| Present Stage 1 + Stage 2 data (n=21) | Q3 2024 | |



Nana-val is Well Positioned for Potential Accelerated Approval in R/R EBV+ PTCL

Anticipate engagement with FDA in mid-2024 to align on accelerated registration pathway

| Accelerated Approval Criteria Nana-val: R/R EBV+ PTCL | | |
|--|---|----------|
| Unmet medical need population | No approved therapies for R/R EBV+ PTCL | ✓ |
| Rarity of the serious life-threatening disease without alternate available treatment options | EBV+ PTCL 5-year event-free survival rate of ~11%* | ✓ |
| Magnitude of the response rate observed | ORR of 30% - 45%+; CRR of ~25% - 40% | ✓ |
| Duration of response (DoR) | 17.3 months median DoR observed in Phase 1b/2 study | ✓ |
| Favorability of the safety profile | Generally well-tolerated | ✓ |

Base Case Assumption: ~60-90 total R/R EBV+ PTCL patients may be required in the NAVAL-1 trial for potential accelerated approval



Nana-val Compares Favorably to Other Therapies that Received Accelerated Approval for the Treatment of R/R PTCL

| Criteria | Nana-val* | Beleodaq** (Belinostat) | Istodax** (Romidepsin) | Folotyn** (Pralatrexate) |
|------------------------------------|---|----------------------------|---------------------------|--|
| Indication(s) | R/R EBV+ PTCL | R/R PTCL (EBV+ & EBV-) | R/R PTCL (EBV+ & EBV-) | R/R PTCL (EBV+ & EBV ⁻) |
| Overall Response Rate (ORR) | 30-50% | 25.8% | 26.2% | 26.6% |
| Complete Response Rate (CRR) | ~25-40% | 10.8% | 15.4% | 8.3% |
| Duration of Response (DoR) | 17.3 months | 8.4 months | <8.5 months | 9.4 months |
| Sample Size | ~60-90 (pending FDA confirmation) | 120 | 130 | 109 |
| Route of Administration | Oral | IV | IV | IV |





EBV+ DLBCL Has a Significantly Worse Prognosis Compared to EBV- DLBCL

Recognized as a unique subtype of DLBCL with its own classification by the World Health Organization

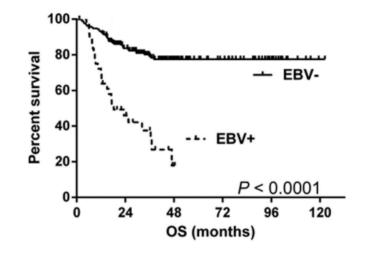
DLBCL is the most common lymphoma (~25% of all NHLs)

- ~5-15% of DLBCL cases are associated with EBV
- 5-year relative survival rate of ~64% overall

EBV+ DLBCL is a clinically more aggressive subtype of DLBCL

- Survival rate is significantly worse compared to EBV-negative disease
- Poor response/survival with standard immuno-chemotherapy
- Associated with distinct biologic features and mutational landscape
- Currently, no approved treatment options specifically targeting EBV+ DLBCL

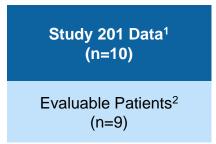
Diffuse Large B-cell Lymphoma (Overall Survival)



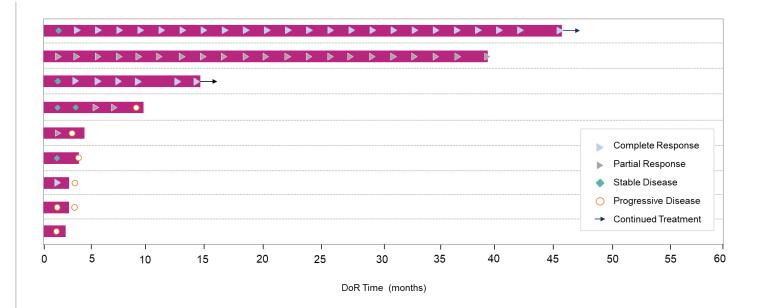


R/R EBV+ DLBCL: Expanded Clinical Response Data

Early data suggests Nana-val delivers a compelling combination of ORR and DoR



| Response | |
|-----------------------|-------------|
| ORR | 6 (67%) |
| CR | 3 (33%) |
| PR | 3 |
| SD | 1 |
| PD | 2 |
| Clinical Benefit Rate | 7 (78%) |
| Data Cutoff | May 4, 2023 |



- Median Duration of Response (DoR) not yet reached
- 2 responding patients remain on study treatment with DoR times of ~11 months (CR) and ~42 months (CR) (as of May 2023)



Anticipated 2024 Milestones for Lymphoma Program

| Trial | Indication | Q1:2024 | Q2:2024 | Q3:2024 | Q4:2024 |
|--------------------------------------|----------------|---|---|--|-----------------------------|
| | | Q1:24 - Complete enrollment of Stage 2 (n=11) | Enroll patients into the post | t-Phase 2 expansion cohort to support potentia | al accelerated approval |
| | R/R EBV⁺ PTCL | | Q2:24 - Report Stage 1 data from both arms: nanatinostat with (n=10) or without (n=10) valganciclovir Mid:24 - Meet with t | | |
| Nava-val Pivotal NAVAL-1 Trial | | | additional req accelerated | | |
| (R/R EBV+ Lymphomas) | R/R EBV+ DLBCL | | | | YE:24 – Report Stage 1 data |
| | R/R EBV+ PTLD | | | | YE:24 – Report Stage 1 data |

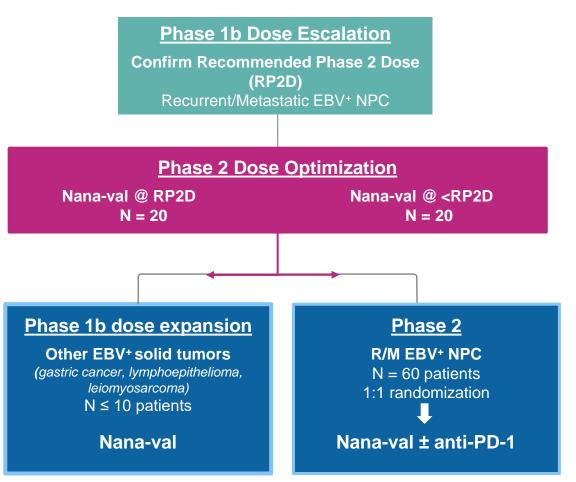




Nana-val: EBV+ Solid Tumor Program

Nana-val Study "301": Phase 1b/2 Trial in Advanced EBV+ Solid Tumors

Open-label, multicenter study to evaluate the safety, tolerability, PK, and preliminary antitumor activity of Nana-val in patients with advanced EBV+ solid tumors



Endpoints:

- Primary:
 - Phase 1b: Incidence of dose-limiting toxicities
 - Phase 2: Objective response rate by RECIST v1.1
- Key Secondary:
 - Incidence and severity of AEs
 - Duration of response
 - Progression-free survival
 - Pharmacokinetic parameters

Anticipate initiating Phase 2 dose optimization cohort in 2024

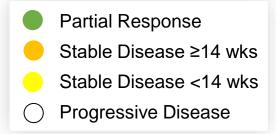


Study 301: Responses to Date in Patients with R/M EBV+ NPC

Emerging evidence of dose response at higher doses and antitumor activity comparison of Dose Level 5 vs. Dose Level 2 suggest promise of split dosing approach

| Dose Level | Nstat Oral Dose (Days 1-4/wk) | VGCV Oral Dose | N | Best Response |
|---------------|----------------------------------|----------------------------|---|------------------|
| 1 | 20 mg QD | 900 mg QD | 3 | |
| 2 | 30 mg QD | 900 mg QD | 4 | 0000 |
| 3 | 40 mg QD | 900 mg QD | 3 | ● ○ NE |
| 4 | 10 mg split dose | 900 mg BID x 21 d, then QD | 3 | • 0 0 |
| 5 | 20 mg / 10 mg split dose | 900 mg BID x 21 d, then QD | 4 | |

Partial responses confirmed at Dose Level 3 and Dose Level 5, both ongoing >10 months and >4 months on study treatment*

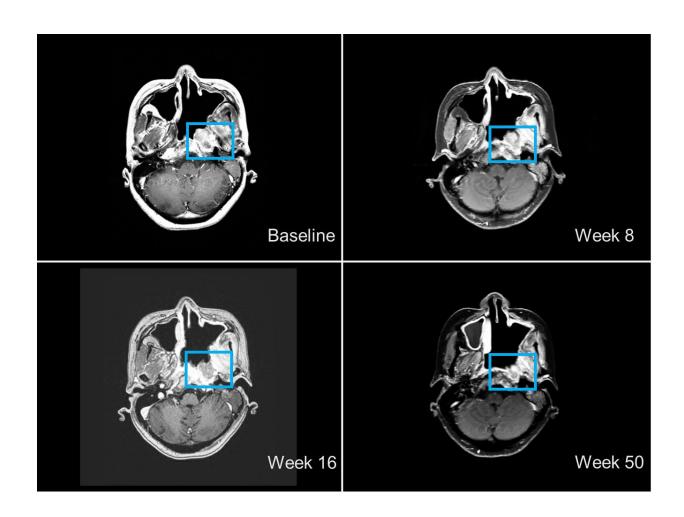




Study 301: MRI Scans of Confirmed Partial Response at Dose Level 3

>50% reduction in tumor size at 8-50 weeks

- 44-year-old female with locally recurrent EBV+ NPC (left nasopharynx)
- Disease previously progressed through chemoradiation therapy then combination chemotherapy
- Treated with nanatinostat 40 mg QD
 Days 1-4/week + VGCV 900 mg QD





Nana-val has been Generally Well-Tolerated at Initial 5 Dose Levels

Preliminary safety data support continued dose escalation to determine RP2D

Treatment-Related Adverse Events in ≥3 Patients

Dose Level 1 = RP2D for R/R Lymphoma

| | Dose Level 1 (n=3) | | Dose Level 2 (n=4) | | Dose Level 3 (n=3) | | Dose Level 4 (n=3) | | Dose Level 5 (n=4) | |
|----------------------|-----------------------|------|-----------------------|------|-----------------------|------|-----------------------|------|-----------------------|------|
| | G1-2 | G3-4 |
| Nausea | 1 | | 2 | | 2 | | 1 | | 1 | |
| Decreased appetite | 1 | | 1 | | 1 | | 2 | | 2 | |
| Creatinine increased | 1 | | 2 | | | | | | 2 | |
| Fatigue | 1 | | 2 | | | 1 | 1 | | | |
| Anemia | 1 | | 1 | | | | | | | 1 |
| Lymphopenia | | | 1 | | | | 1 | 1 | | |
| Vomiting | | | | | 2 | | 1 | | | |

Safety

- No dose-limiting toxicities reported
- Majority of treatment-related adverse events were mild to moderate in severity



Rationale for Split Daily Dosing (SDD) of Nanatinostat in Combination with Valganciclovir

Compelling preclinical data provides supporting evidence to evaluate a new dosing regimen



Split dose (2-4 hours apart) increases expression of EBV protein kinase, BGLF4



Split dose Significantly increased the anti-tumor activity of Nana-val in murine EBV⁺ gastric cancer xenograft model



Daily dosing Enables increased anti-tumor activity relative to 4 days on 3 days off



Higher doses Safety data suggest patients with NPC can withstand higher doses of nanatinostat compared to lymphoma patients

SDD of Nanatinostat offers a potential to extend Nana-val patent portfolio with differentiated strategy from lymphoma; US provisional application(s) have been filed

Completed enrollment of first cohort utilizing novel SDD regimen (dose cohort 6) to determine RP2D, currently enrolling dose cohort 7

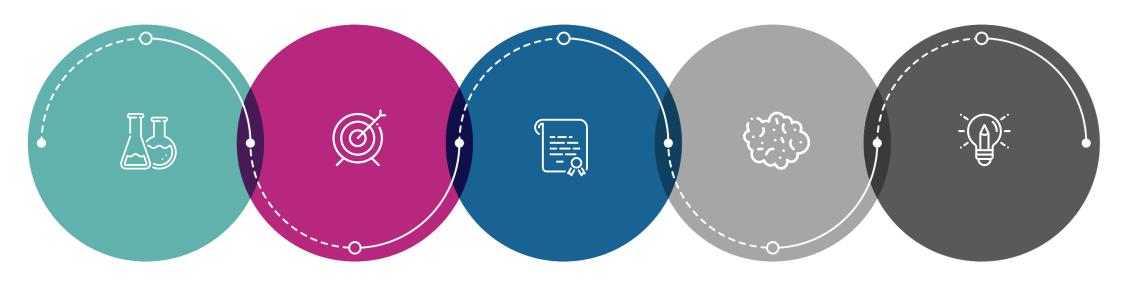


Anticipated 2024 Milestones

| Trial | Indication | Q1:2024 | Q2:2024 | Q3:2024 | Q4:2024 |
|---|----------------|---|--|---|--|
| Pivotal | R/R EBV+ PTCL | Q1:24 - Complete enrollment of Stage 2 (n=11) | Q2:24 - Report Stage 1 data from both arms: nanatinostat with (n=10) or without (n=10) valganciclovir Mid:24 - Meet with the additional requaccelerated | uirements for | al accelerated approval |
| NAVAL-1 Trial (R/R EBV ⁺ Lymphomas) | R/R EBV+ DLBCL | | | | YE:24 – Report Stage 1 data |
| | R/R EBV+ PTLD | | | | YE:24 – Report Stage 1 data |
| Phase 1b/2 Study 301 (Advanced EBV+ Solid Tumors) | NPC | | | H2:24 - Determine RP2D by investigatin higher dose le | g the novel split daily dosing regimen at vels of Nana-val YE:24 - Initiate Phase 2 dose- optimization cohort to confirm RP2D |



Focus is Maximizing the Nana-val Opportunity



Adverse survival outcomes are seen with many EBV-associated cancers

High unmet medical need for targeted therapies Well-tolerated, all-oral combination approach to targeting EBV+ cancers

First-in-class targeted treatment; potential tumor agnostic MOA

Pivotal NAVAL-1 trial in multiple R/R EBV⁺ lymphoma subtypes

Near-term data from
PTCL cohort and
alignment with FDA
anticipated in mid-2024

Phase 1b/2 study in advanced EBV⁺ solid tumors

Plan to determine RP2D and initiate Phase 2 dose-optimization in 2024

Lean operating model and a <u>speed to market</u> strategy

Regulatory validation with orphan drug designation granted for Nana-Val (across six indications)



Thank you





US Incidence Estimates for EBV+ Hematological Malignancies



| Incidence and % EBV Positivity by Lymphoma Subtype | | | | | | | |
|--|--------------------------|---------|---------|-------------------|--|--|--|
| Subtype | Annual (newly diagnosed) | R/R | Total | EBV Positivity | | | |
| Peripheral T-cell lymphoma (PTCL)* | ~2,600 | ~1,100 | ~3,600 | 40%-65% | | | |
| Diffuse large B-cell lymphoma (DLBCL) | ~27,700 | ~13,800 | ~41,500 | 5%-15% | | | |
| PTLD | ~1,300 | ~700 | ~2,000 | 60%-80% | | | |

The diagnosed incidence of EBV-associated hematological malignancies is likely underestimated given inconsistent testing due to the absence of an actionable targeted and actionable therapy



Global Incidence Estimates for Priority EBV+ Hematological Malignancies

Nana-val has the potential to address other EBV⁺ hematological malignancies

| Incidence and % EBV Positivity by Lymphoma Subtype | | | | | | | |
|--|--------------------------|---------|----------|-------------------|--|--|--|
| Subtype | Annual (newly diagnosed) | R/R | Total | EBV Positivity | | | |
| Peripheral T-cell lymphoma (PTCL)* | ~15,200 | ~6,300 | ~21,500 | 40%-65% | | | |
| Diffuse large B-cell lymphoma (DLBCL) | ~113,000 | ~56,000 | ~169,000 | 5%-15% | | | |
| PTLD | ~9,100 | ~4,600 | ~13,700 | 60%-80% | | | |

The diagnosed incidence of EBV-associated hematological malignancies is likely underestimated given inconsistent testing due to the absence of an actionable targeted and actionable therapy

