

# ARTISTRY-2: Nemvaleukin Alfa Monotherapy in Patients With Advanced Mucosal and Cutaneous Melanoma

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Poster 1034TIP

## BACKGROUND

### Nemvaleukin Alfa (Nemvaleukin, ALKS 4230) Is a Novel, Engineered Cytokine

- Designed to selectively bind the intermediate-affinity interleukin-2 receptor (IL-2R) to preferentially activate CD8<sup>+</sup> T and natural killer (NK) cells with minimal expansion of regulatory T cells (T<sub>reg</sub>) (Figure 1).<sup>1</sup>
- Nemvaleukin has been granted orphan drug designation and fast track designation for the treatment of mucosal melanoma by the United States FDA.
- In the ongoing ARTISTRY-1 study (NCT02799059), intravenous (IV) nemvaleukin monotherapy at the recommended phase 2 dose (RP2D) of 6 µg/kg demonstrated durable antitumor activity in patients with advanced melanoma, including mucosal melanoma, previously treated with a checkpoint inhibitor (CPI).<sup>2</sup>
  - Among the 44 patients with evaluable scans, decreases in tumor burden of up to 46% have been observed with nemvaleukin monotherapy (Figure 2).
  - Additional responses with nemvaleukin monotherapy have been achieved in patients with advanced renal cell carcinoma previously treated with a CPI.<sup>2</sup>
- In the ongoing ARTISTRY-2 study (NCT03861793), subcutaneous (SC) nemvaleukin at the RP2D of 3 mg every 7 days (q7d) demonstrated pharmacodynamic effects consistent with those of IV nemvaleukin.<sup>3</sup>
- IV and SC nemvaleukin were generally well tolerated, with largely similar safety profiles consistent with its mechanism of action.

### Advanced Cutaneous and Mucosal Melanoma Represent Tumor Types With Vast Unmet Needs

- Despite improved outcomes for melanoma patients with the introduction of CPIs, ~50% of patients do not respond to monotherapy and ~40% do not respond to combinations.
  - A subset of responders partially progress and have limited treatment options, underscoring a high unmet need for novel treatments with durable benefit.
- Patients with mucosal melanoma exhibit response rates and progression-free survival times ~2 times lower than those with cutaneous melanoma.

## References, Acknowledgments, Disclosure

### References

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### Disclosures

RC has consulted for BMS, Castle Biosciences, Compugen, Foundation Medicine, Immunocore, MabMac, Incyte, Merck, Roche Genentech, Ferring Health, Sanofi Genzyme, and Soretto Therapeutics; served on advisory boards for Aura Biosciences, Chimeron, and Regeneron; and received research funding from Amgen, Astellas, AstraZeneca, Bayer, Bellicum, BMS, Corvus, Eli Lilly, Immunocore, Incyte, Macrogenics, Merck, Meritx, Novartis, Pfizer, Plexikon, Roche/Genentech.

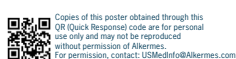


Figure 1. Cell Activation by IL-2 and Nemvaleukin

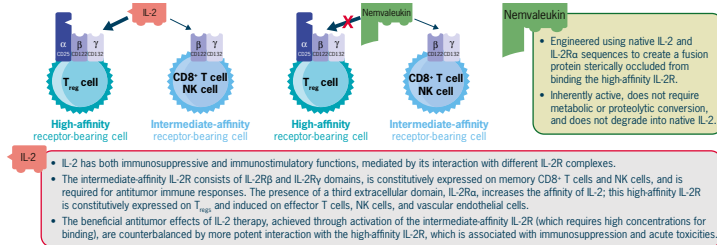


Figure 2. Nemvaleukin Monotherapy: Duration of Treatment at RP2D in Patients With Melanoma From ARTISTRY-1 (as of Data Cut Date of 29 June 2021)

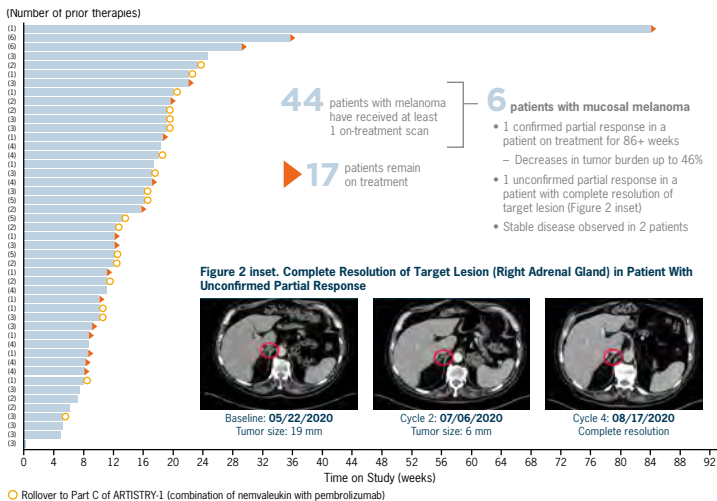
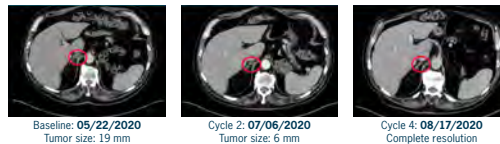


Figure 2 inset. Complete Resolution of Target Lesion (Right Adrenal Gland) in Patient With Unconfirmed Partial Response



## METHODS

### ARTISTRY-6 (NCT04830124) is actively recruiting

A phase 2, global, multicenter, cohort study of nemvaleukin alfa monotherapy administered subcutaneously in patients with advanced cutaneous melanoma or intravenously in patients with advanced mucosal melanoma who have previously received anti-PD-(L)1 therapy



### Patient Population

- Adults aged ≥18 years with confirmed diagnosis of unresectable and/or metastatic melanoma.
- ECOG performance status of 0 or 1.
- Adequate hematologic reserve and hepatic and renal function.
- Measurable lesion (≥1) that qualifies as a target lesion (RECIST 1.1).
- Prior treatment with anti-PD-(L)1 therapy with or without anti-CTLA-4 therapy,
  - With stable objective response of partial response or complete response or with stable disease (RECIST 1.1 or iRECIST).
- Patients with progressive disease may be eligible if they received anti-PD-(L)1 therapy for ≥12 weeks.
- No more than 1 other prior regimen of systemic anti-neoplastic therapy (eg, targeted therapy, chemotherapy); previous adjuvant and/or neoadjuvant therapy counts as 1 prior regimen.
- Patients with BRAF mutations may or may not have received prior targeted therapy.
- Prior treatment with talimogene laherparepvec (TVEC) is allowed provided that last exposure to TVEC was ≥28 days prior to first exposure to nemvaleukin and that all injection site reactions to TVEC have resolved.
  - TVEC shall not be considered a prior line of systemic anti-neoplastic therapy, nor shall it be considered a systemic immunomodulatory agent.



### Cohort 1

- Target N = 40
- Advanced cutaneous melanoma
- No more than 5 patients with acral melanoma will be enrolled



### Cohort 2

- Target N = 70
- Advanced mucosal melanoma



### Key Exclusion Criteria

- Uveal melanoma
- Prior IL-2-based or IL-15-based cytokine therapy
- Exposure, including intravesical, to IL12 or analogs thereof



### Dosing Regimen

- Cohort 1: SC nemvaleukin (3 mg) once q7d
- Cohort 2: IV nemvaleukin (6 µg/kg) on days 1-5 followed by 9 days off treatment (cycle 1) or 16 days off treatment (cycle 2+)

Patients will continue to receive nemvaleukin until disease progression or intolerable toxicity.



### Primary Objective

To evaluate the antitumor activity of nemvaleukin by centralized reviewers' assessment of overall response rate (ORR) based on RECIST 1.1 separately for patients with advanced cutaneous (Cohort 1) and mucosal (Cohort 2) melanoma.

### Secondary Objectives (Evaluated Separately for Cohort 1 and Cohort 2)

- To evaluate the antitumor activity (other than by centrally assessed ORR), safety, and tolerability of nemvaleukin.

### Exploratory Objectives (Evaluated Separately for Cohort 1 and Cohort 2)

- To evaluate overall survival, durable and immune durable response rates, and health-related quality of life with nemvaleukin, and pharmacokinetics, immunogenicity, and pharmacodynamic effects of nemvaleukin.
- To describe changes in post-treatment patient blood and/or tumor tissue samples and identify properties that may predict response or nonresponse to nemvaleukin monotherapy.