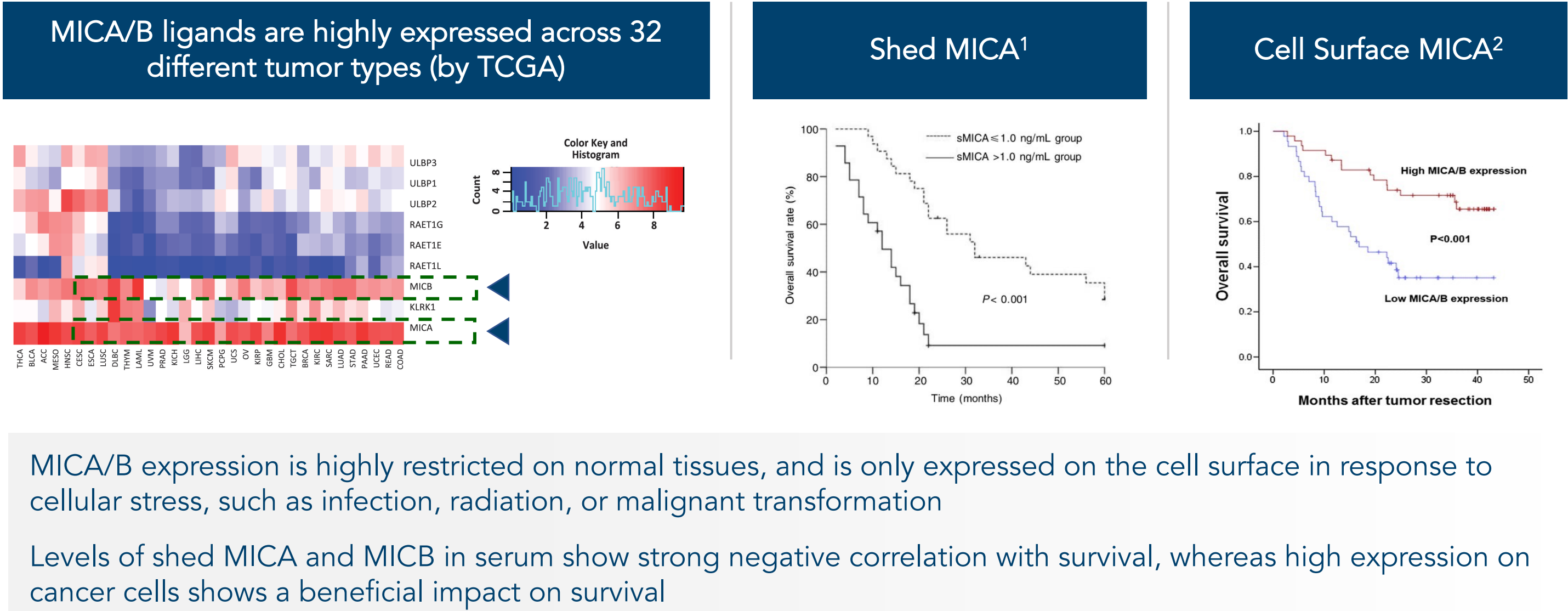


A Phase 1 Dose-Escalation Study to Investigate the Safety, Efficacy, Pharmacokinetics, and Pharmacodynamic Activity of CLN-619 (Anti-MICA/MICB Antibody) Alone and in Combination with Pembrolizumab in Patients with Advanced Solid Tumors

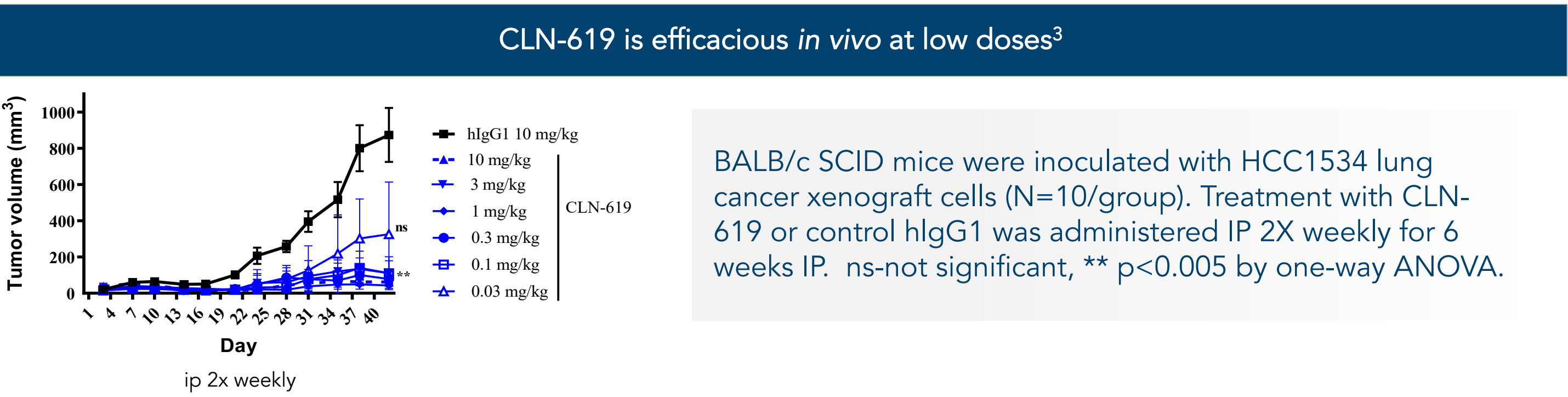
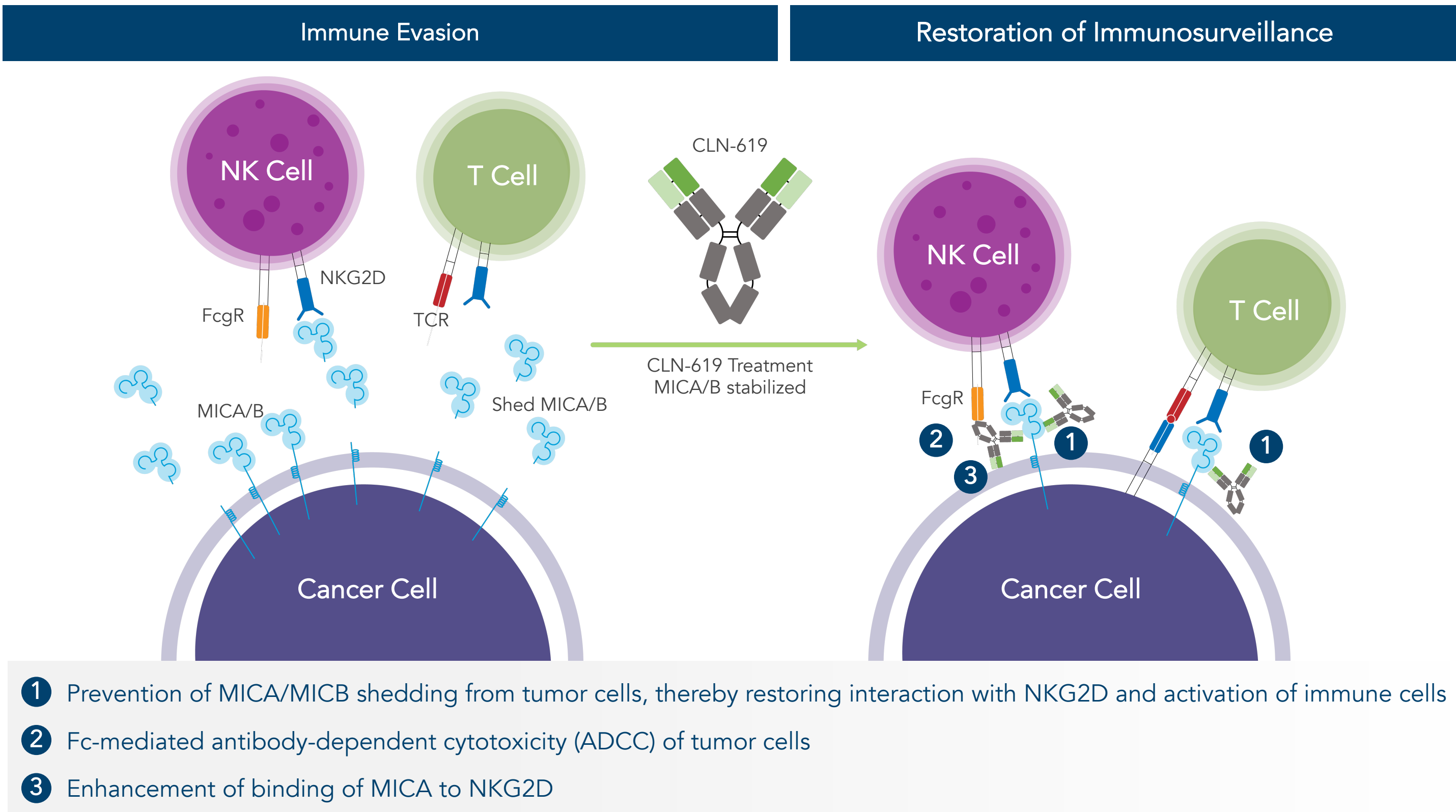


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Background: MICA/MICB are Pan-Cancer Targets

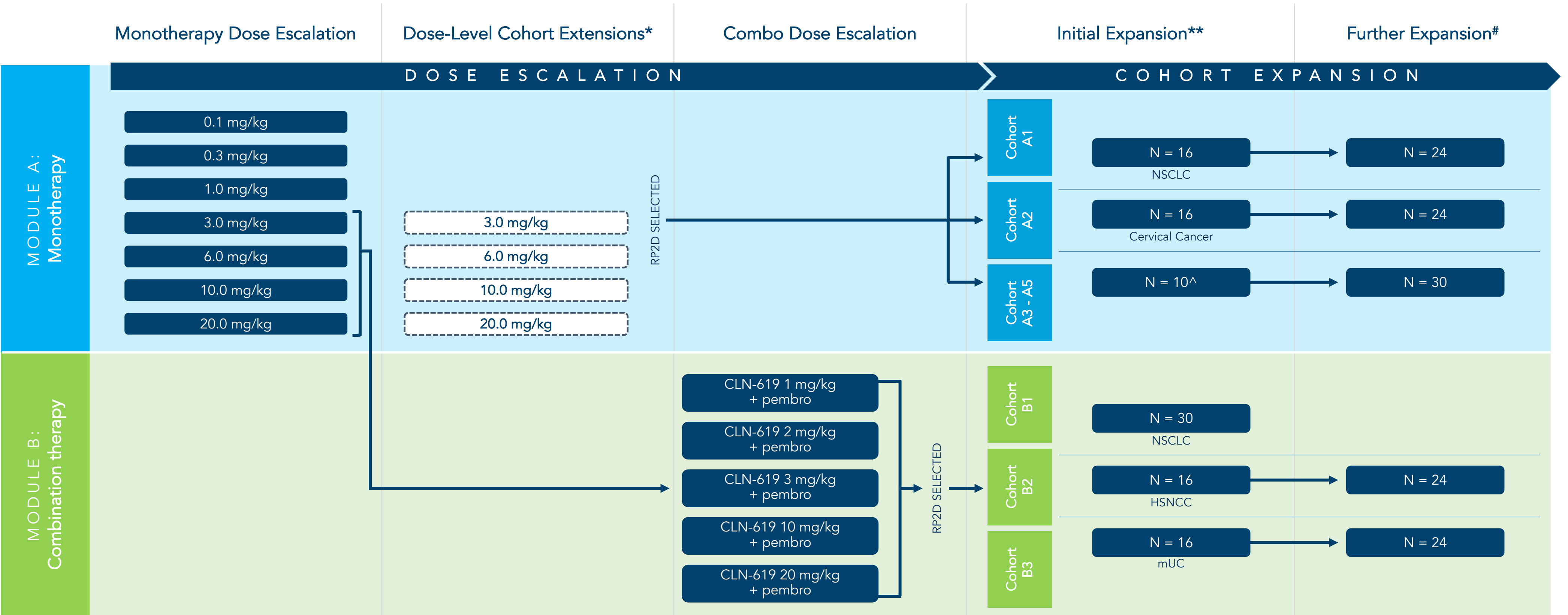


Background: CLN-619 Proposed Modes of Action



CLN-619-001 Study Schema

This is an open label, first-in-human, multicenter, dose escalation and dose expansion study of CLN-619 administered alone (Module A) or in combination with pembrolizumab (Module B) in patients with advanced solid tumors.



*Enrollment may be up to N = 10 per dose level that have been cleared for safety; **Dose escalation cohort initial expansion N = up to 16 per dose level; #Further expansion dependent on signal or emerging data; ^Inclusive of patients with the identified tumor type dosed during Module A dose escalation; NSCLC = non-small cell lung cancer; HNSCC = head and neck squamous cell carcinoma; mUC = metastatic urothelial carcinoma

Key Eligibility Criteria

Inclusion Criteria	Exclusion Criteria
<ul style="list-style-type: none">Age \geq 18 yearsECOG 0 or 1Estimated life expectancy \geq12 weeksAdequate liver and kidney function and hematological parametersHistologically or cytologically-confirmed metastatic or locally advanced, unresectable solid tumorsPatients should have received any other available standard therapy (except cohort B1)Measurable disease based on RECIST v1.1	<ul style="list-style-type: none">Investigational drug within 28 days (or 5 half-lives) of dosing on C1D1Active autoimmune disease or history of known/suspected autoimmune disease, or history of a syndrome that requires systemic corticosteroids or immunosuppressive medicationsSerious, uncontrolled medical disorder that would impair the ability of the patient to receive protocol therapy or whose control may be jeopardized by the complications of this therapyTreatment with systemic antimicrobial agent for acute infection within \leq 7 days of dosing on C1D1History of grade \geq 3 immunological adverse event or liver dysfunction satisfying Hy's Law in conjunction with prior checkpoint inhibitor immunotherapyPrior allogeneic organ or hematopoietic transplantationActive CNS metastases and/or carcinomatous meningitisModule B2 & B3 cohorts only: refractory disease defined as progressive disease at 16 weeks after at least 3 doses of PD-1 therapy

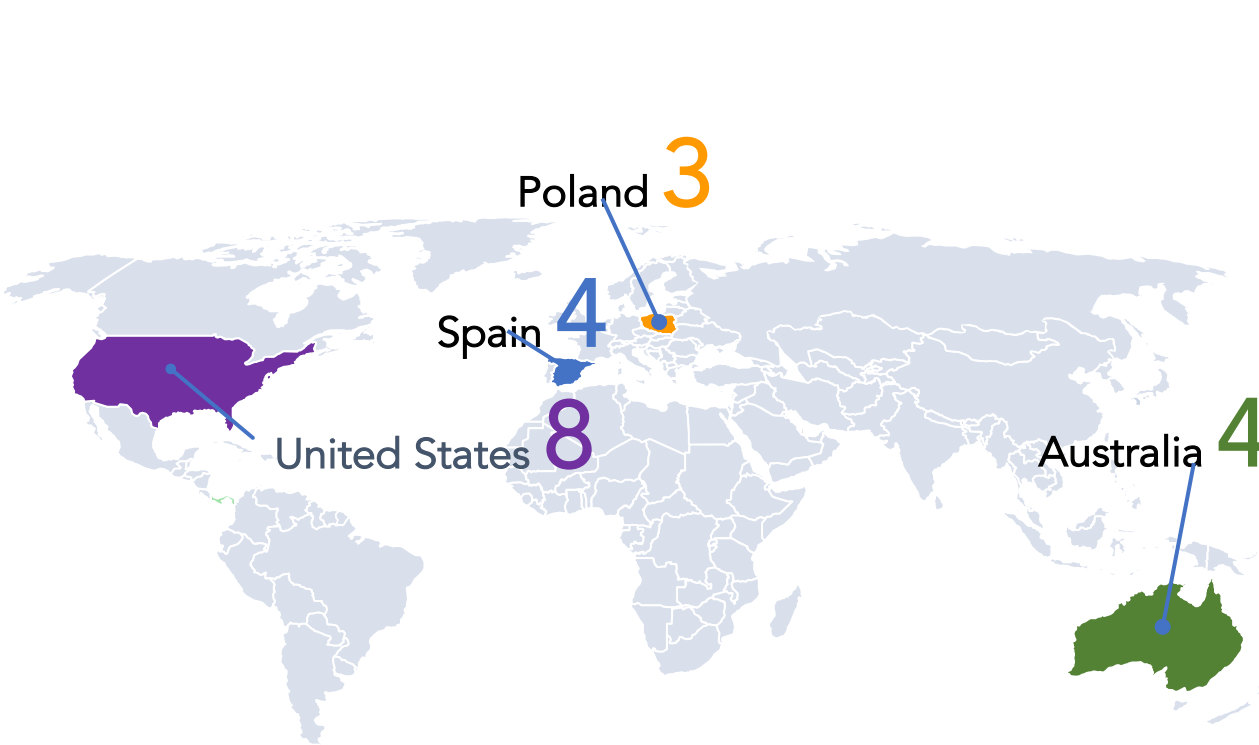
Study Objectives

Primary Objectives:
To characterize the safety, tolerability, and preliminary anti-tumor activity of CLN-619 administered alone (Module A) or in combination with pembrolizumab (Module B) in patients with advanced solid tumors

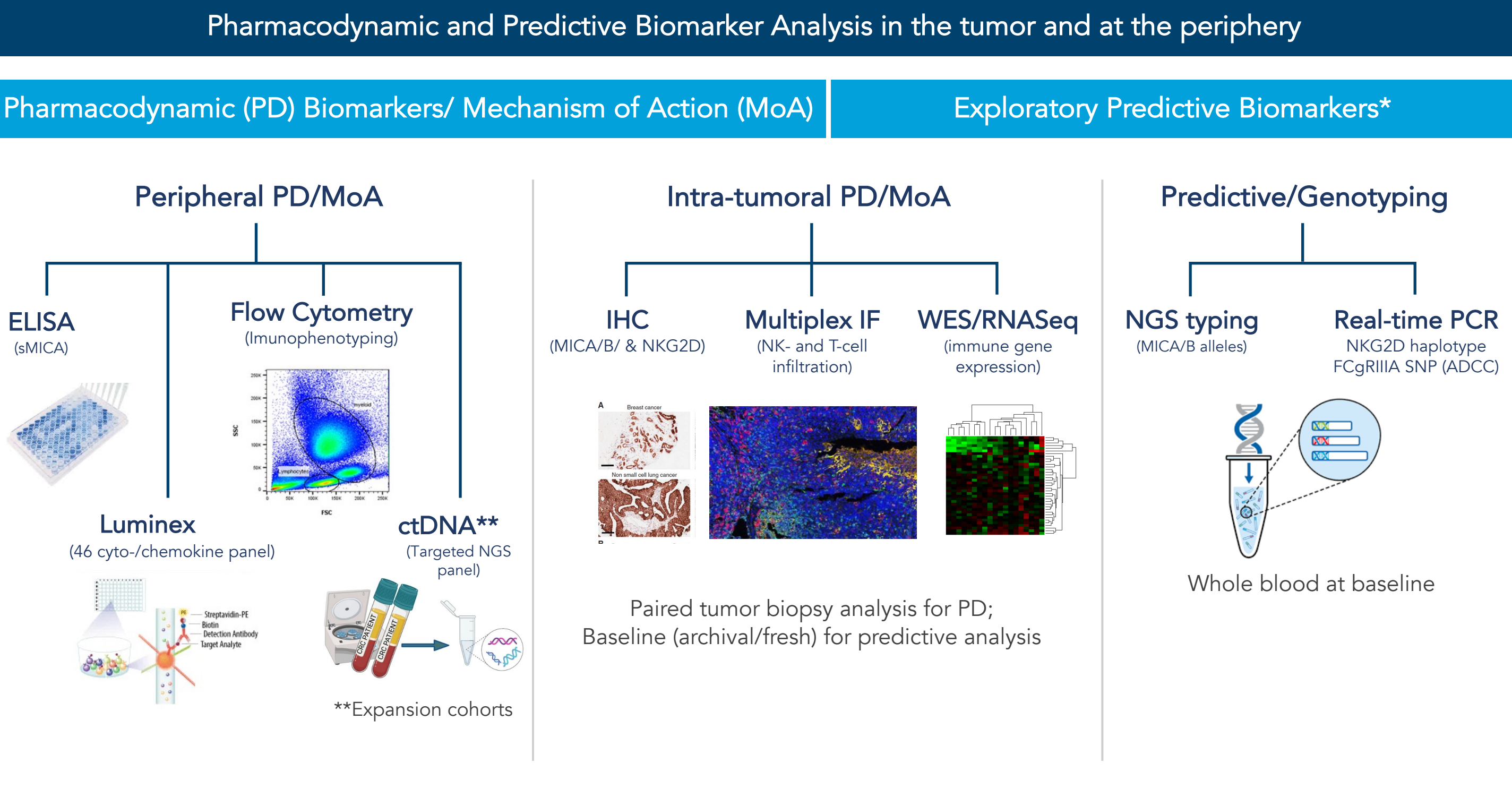
Secondary Objectives:
To assess the PK profile and immunogenicity of CLN-619 administered alone or in combination with pembrolizumab in patients with advanced solid tumors

Exploratory Objectives:
To explore various pharmacodynamic and predictive biomarkers and their relationship to measures of clinical anti-tumor activity including overall response rate (ORR), duration of response (DOR), progression-free (PFS) and overall survival (OS) in patients treated with CLN-619 alone or in combination with pembrolizumab

Global Site Footprint



Exploratory Biomarker Plan



Study Information

- Protocol Number: CLN-619-001
- Status: Monotherapy (Module A) and combination (Module B) dose escalation are ongoing
- ClinicalTrials.gov Identifier: NCT05117476
- Contact: Timna Serino clinops@cullinanoncology.com

References

1. Li JJ, Pan K, Gu MF, Chen MS, Zhao JJ, Wang H, Liang XT, Sun JC, Xia JC. Prognostic value of soluble MICA levels in the serum of patients with advanced hepatocellular carcinoma. Chin J Cancer. 2013 Mar;32(3):141-8.
2. Fang L, Gong J, Wang Y, Liu R, Li Z, Wang Z, Zhang Y, Zhang C, Song C, Yang A, Ting JP, Jin B, Chen L. MICA/B expression is inhibited by unfolded protein response and associated with poor prognosis in human hepatocellular carcinoma. J Exp Clin Cancer Res. 2014 Sep 18;33(1):76.
3. Whalen KA, Mehta NK, Yalcin S, Meetze K, Gibson NW, Michaelson JS, Baeuerle PA. CLN-619, a clinical-stage MICA/MICB-specific IgG1 antibody, restores the MICA/MICB-NKG2D axis to promote NK-mediated tumor cell lysis. AACR 2022 Abstract #3506.