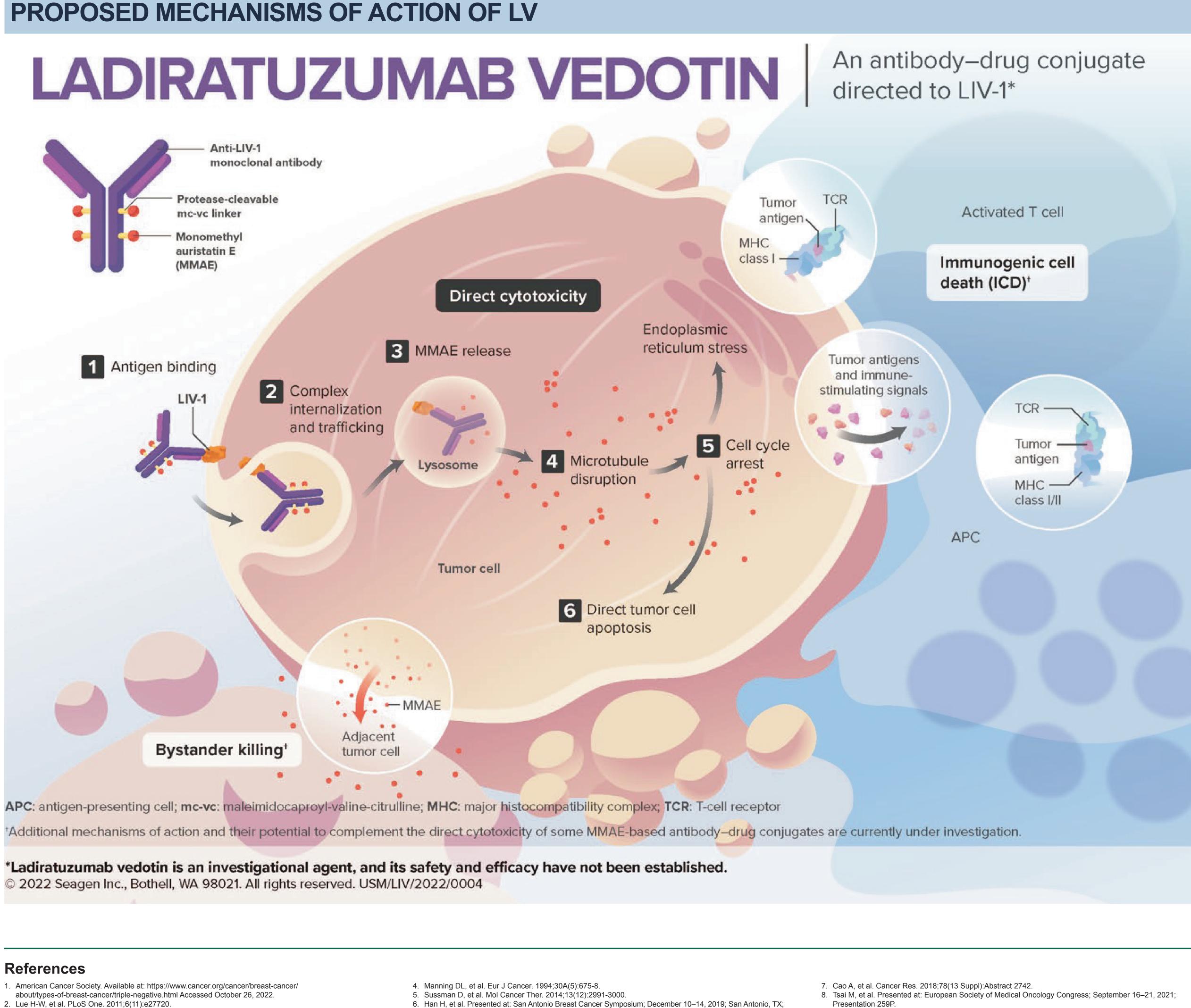
PHASE 1b/2 STUDY OF LADIRATUZUMAB VEDOTIN (LV) IN COMBINATION WITH PEMBROLIZUMAB FOR FIRST-LINE TREATMENT OF TRIPLE-NEGATIVE BREAST CANCER (SGNLVA-002, TRIAL IN PROGRESS)

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BACKGROUND

Hogstrand C, et al. Biochem J. 2013;455:229-3

- Triple-negative breast cancer (TNBC) is a highly aggressive sub-type of breast cancer associated with poor outcomes and a high mortality rate¹
- Programmed death ligand-1 (PD-L1) low/negative TNBC represents an unmet medical need
- LIV-1 is a transmembrane protein involved in the signaling pathway leading to epithelial-mesenchymal transition and its expression has been linked with malignant progression to metastasis in breast cancer^{2–4}
- LIV-1 is expressed in ≥90% of all clinical subtypes of metastatic breast cancer tumors and has low expression in normal tissues^{5,6}
- LV is an investigational antibody-drug conjugate directed to LIV-1 via a humanized immunoglobulin G1 monoclonal antibody conjugated to monomethyl auristatin E (MMAE) by a protease-cleavable linker⁵
- LIV-1–mediated delivery of MMAE causes microtubule disruption, thereby inducing cell cycle arrest and apoptosis⁷
- Preliminary results showed LV delivered once every 3 weeks + pembrolizumab was tolerable with encouraging antitumor activity in patients with metastatic TNBC (mTNBC)⁶
- Interim results of weekly LV monotherapy at doses up to 1.5 mg/kg showed that LV was clinically active and generally well tolerated⁸
- Based on pharmacokinetic and pharmacodynamic modeling and simulation analysis, an intermittent LV + pembrolizumab dosing regimen is being evaluated to further enhance efficacy and improve the tolerability profile



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RATIONALE FOR COMBINING LV WITH PEMBROLIZUMAB

- LV and pembrolizumab act through distinct and complementary mechanisms
- LV-induced immunogenic cell death (ICD) elicits an inflammatory response, leading to enhanced antitumor immunity
- Increased antigen presentation
- Increased tumor immune cell infiltration⁷
- LV-induced ICD creates a microenvironment favorable for enhanced pembrolizumab activity

ELIGIBILITY: PART D

Key Inclusion Criteria

- ≥18 years of age
- Unresectable locally advanced (LA) or metastatic, histologically documented TNBC (absence of human epidermal growth factor receptor 2 overexpression or amplification, estrogen receptor, and progesterone receptor expression)
- LIV-1 expression is not an eligibility requirement
- Tumor tissue PD-L1 combined positive score <10 using the PD-L1 immunohistochemistry 22C3 clone
- No prior cytotoxic therapy for the treatment of unresectable LA or mTNBC

STUDY DESIGN: PART D

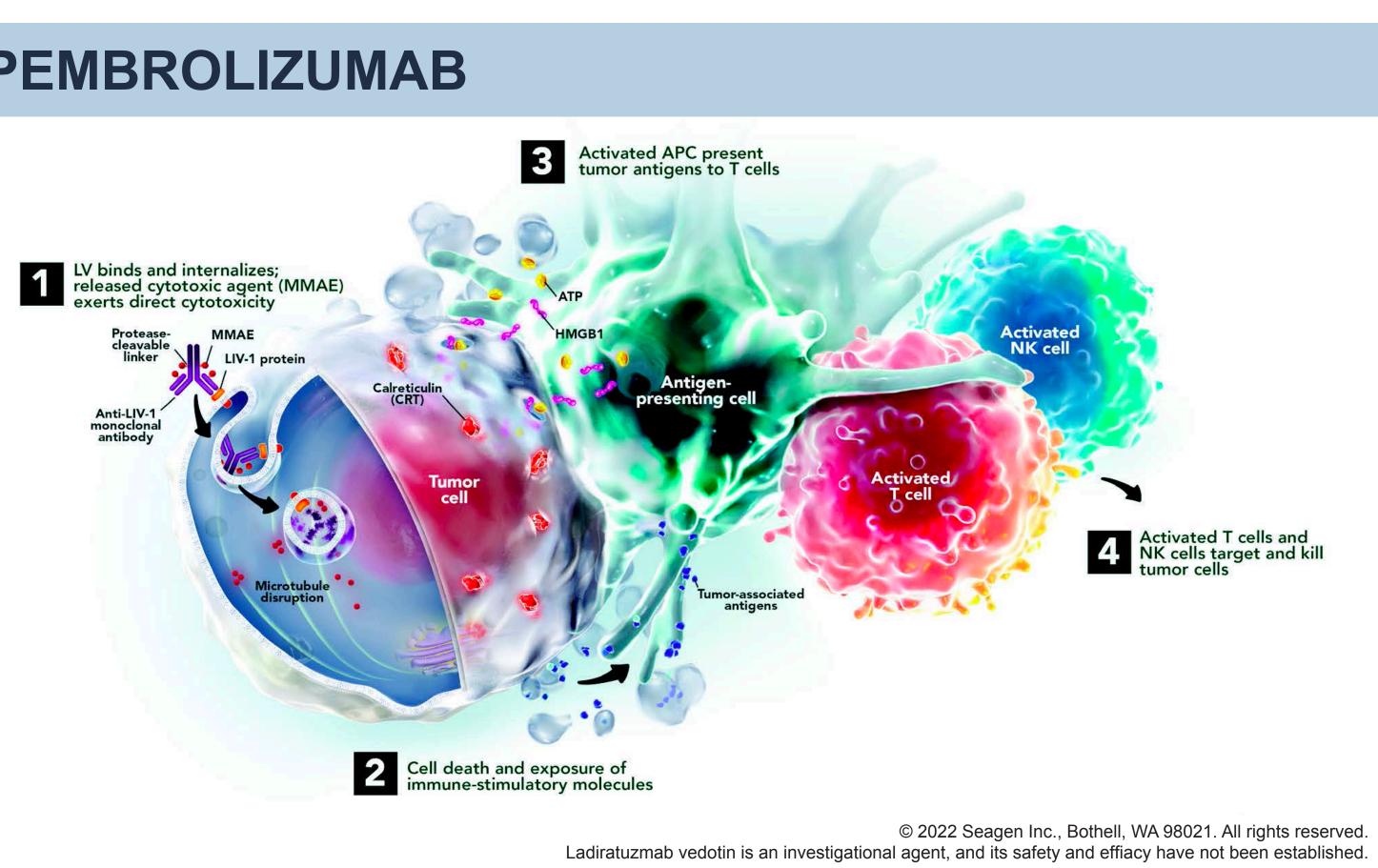
- SGNLVA-002 (NCT03310957) is an ongoing global single-arm, open-label, phase 1b/2 study of LV + pembrolizumab as first-line therapy for patients with unresectable LA or mTNBC
- In Part D, approximately 40 patients will receive LV 1.5 mg/kg administered on Day 1 and Day 8 (off Day 15) of every 21-day cycle in combination with pembrolizumab administered on Day 1 of every cycle

Pretreatment							dy Treatment n 21-day cycle)	
Cor	·	ed torr T) sc	an		Part D • Pembrolizumab • LV D1 • •	D8		
28 days							21 days	

^aResponse assessments to be performed every 6 weeks (±3 days) for the first 12 months and every 12 weeks (±7 days) thereafter, regardless of dose delays. For first objective response (completed) or partial response), a scan will be performed at least 4 weeks after first documentation of response. Patients who discontinue study treatment in the absence of disease progression will continue to be evaluated for response every 6 weeks for the first 12 months on study and every 12 weeks thereafter until progression or initiation of a new anticancer treatment. Patients will be followed for overall survival every 12 weeks. ^cArchival or newly obtained core or excisional tumor biopsy.

Acknowledgements

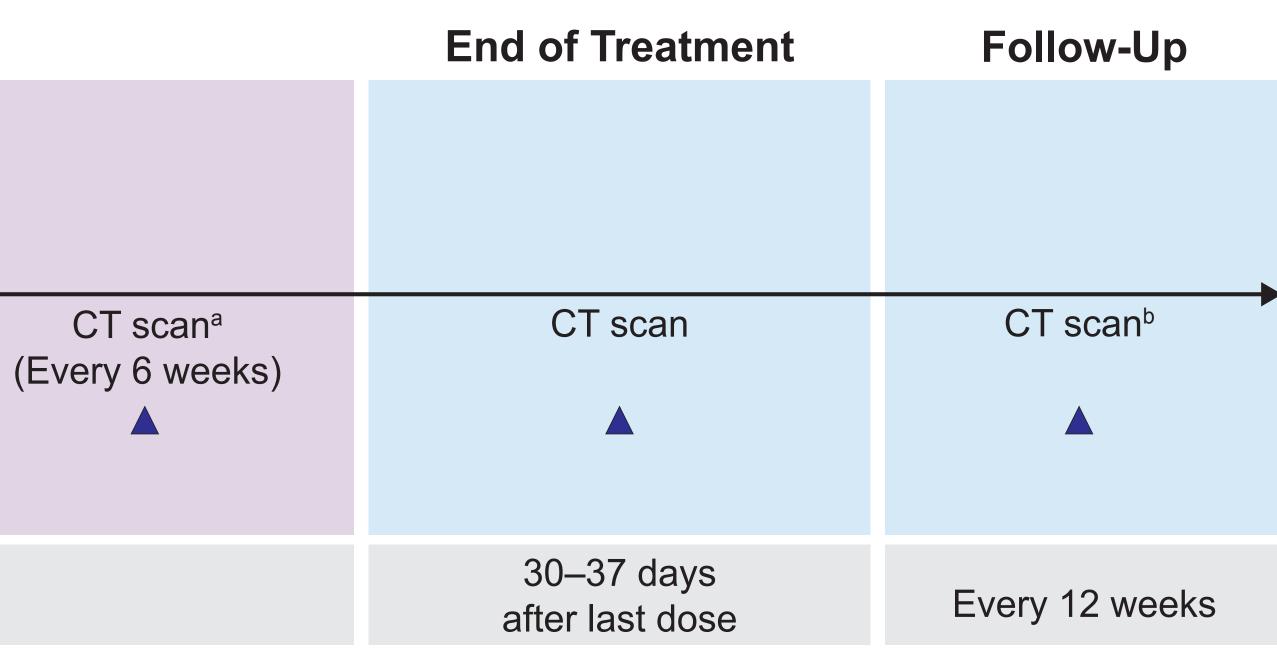
Medical writing support was provided by Suparna Abraham, PharmD, and editorial support by Travis Taylor, BA, all of Scion, London, supported by Seagen Inc



- At least 6 months since prior neoadjuvant and/or adjuvant treatment with curative intent and recurrence
- Measurable disease per Response Evaluation Criteria in Solid Tumors (RECIST) v1.1
- An Eastern Cooperative Oncology Group performance status (ECOG PS) score of 0 or 1
- Adequate hematologic, kidney, and liver function

Key Exclusion Criteria

- Prior immune-oncology therapy
- Pre-existing neuropathy of at least Grade 2
- Active central nervous system metastases
- Active autoimmune disease requiring systemic treatment within the past 2 years



OBJECTIVES

Primary Objective

- To evaluate the safety and pembrolizumab
- To evaluate the antitumor a pembrolizumab

Secondary Objectives

 To evaluate the long-term of response of LV + pembroliz

Exploratory Objectives

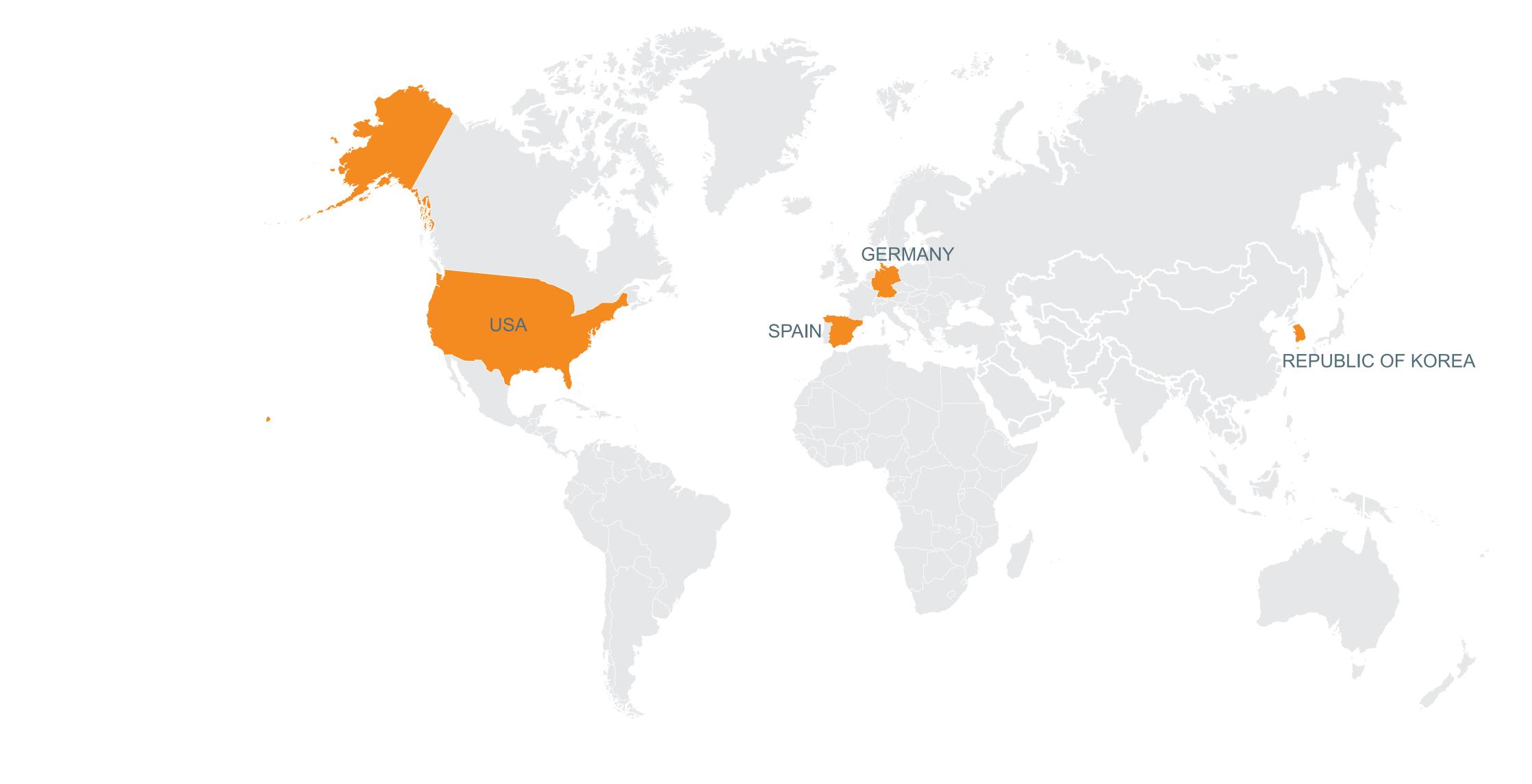
- To evaluate antitumor activity RECIST (iRECIST)
- To assess PD-L1 and LIV-1 relationship

ASSESSMENTS

- concomitant medications, and laboratory tests
- Statistical analysis: Safety and efficacy endpoints will be summarized with descriptive statistics

SUMMARY

- Global enrollment is ongoing in the US, EU, and Asia



Sheng Wu, and Brandon Croft are employees of and report equity ownership in Seagen Inc.

	Endpoints
tolerability of LV +	 Type, incidence, severity, seriousness, and relatedness of adverse events (AEs) and laboratory abnormalities
ctivity of LV +	 Confirmed objective response rate (ORR) as determined by the investigator according to RECIST v1.1
	Endpoints
outcomes and duration of cumab	 Duration of response (DOR), disease control rate (DCR), and progression-free survival (PFS) as determined by RECIST v1.1 Overall survival
	Endpoints
ity according to Immune	 ORR, DOR, DCR, and PFS as determined by iRECIST
expression-response	 PD-L1 and LIV-1 expression-response relationship following treatment with LV and pembrolizumab

• Efficacy assessments: Antitumor activity will be assessed by radiographic tumor imaging at protocol-specified time points • Safety assessments: Surveillance and recording of AEs, physical examination findings, vital signs, electrocardiogram,

• Part D of the SGNLVA-002 study will assess the safety and antitumor activity of LV in combination with pembrolizumab for patients with LA or mTNBC who are PD-L1 low or negative

