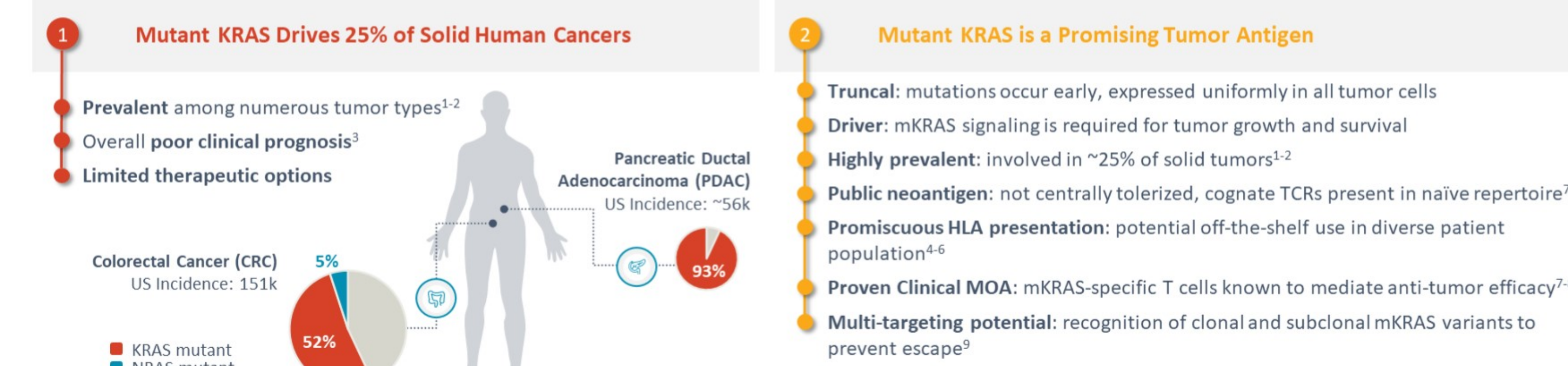


AMPLIFY-201, a first-in-human safety and efficacy trial of adjuvant ELI-002 2P immunotherapy for patients with high-relapse risk KRAS G12D- or G12R-mutated pancreatic and colorectal cancer.

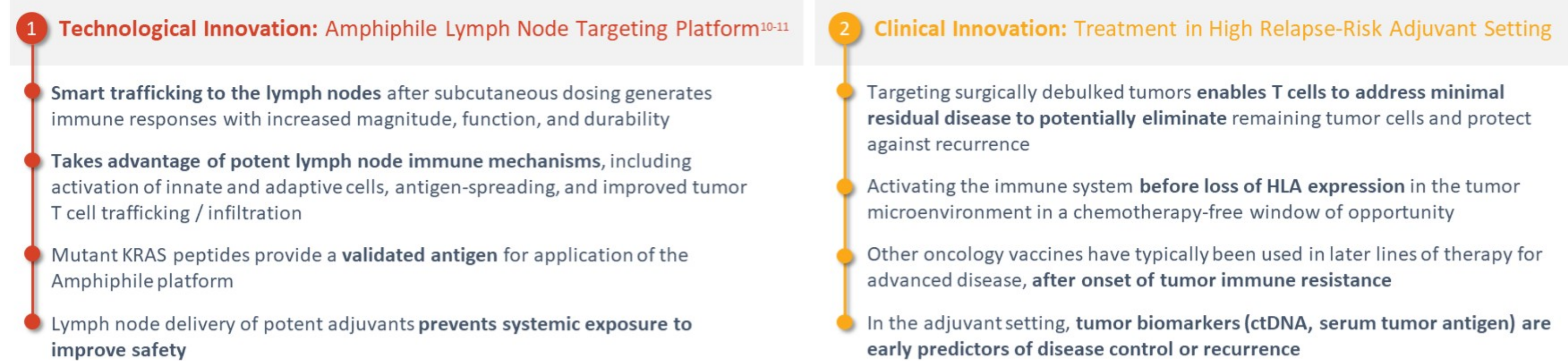
Eileen M. O'Reilly¹, Zev A. Wainberg², Colin D. Weekes³, Muhammad Furqan⁴, Pashtoon M. Kasi⁴, Craig E. Devoe⁵, Alexis D. Leal⁶, Vincent Chung⁷, James Perry⁸, Lochana Seenappa⁸, Lisa K. McNeil⁸, Esther Welkowsky⁸, Peter C. DeMuth⁸, Christopher M. Haqq⁸, Shubham Pant⁹

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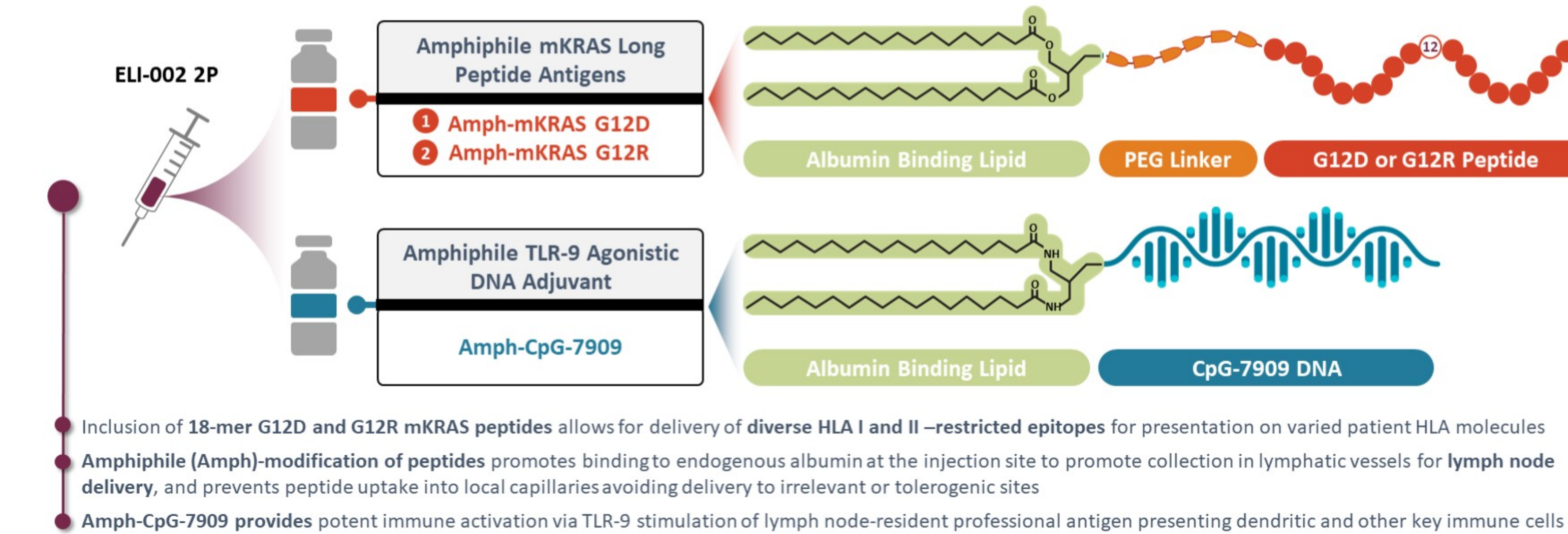
Why Target mutated KRAS with Therapeutic Vaccination?



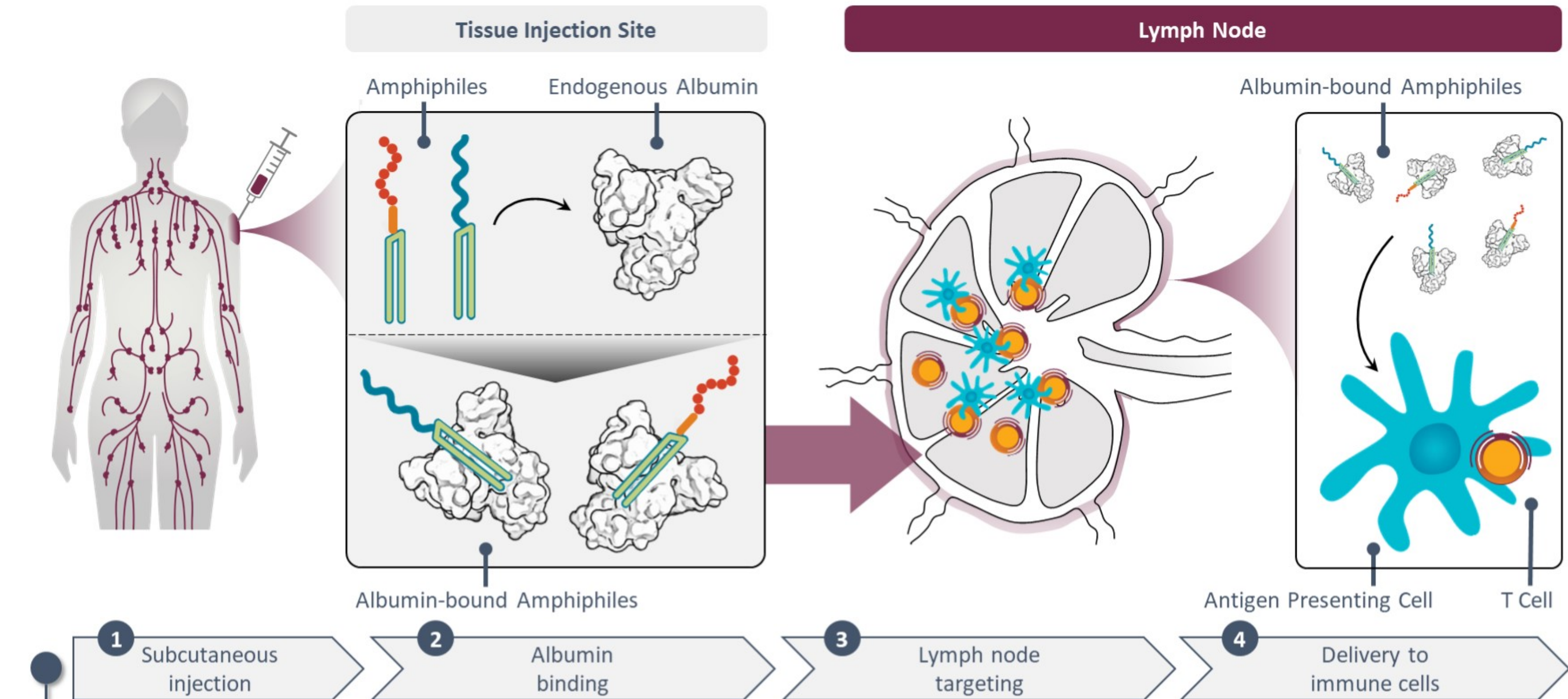
HYPOTHESIS: mKRAS Vaccination will Prevent Tumor Recurrence in High Relapse-Risk Patients Following Standard Therapy



Designing a Therapeutic Vaccine Targeting mKRAS: ELI-002 2P



The Amphiphile Platform: Targeting the Lymph Nodes¹⁰⁻¹¹

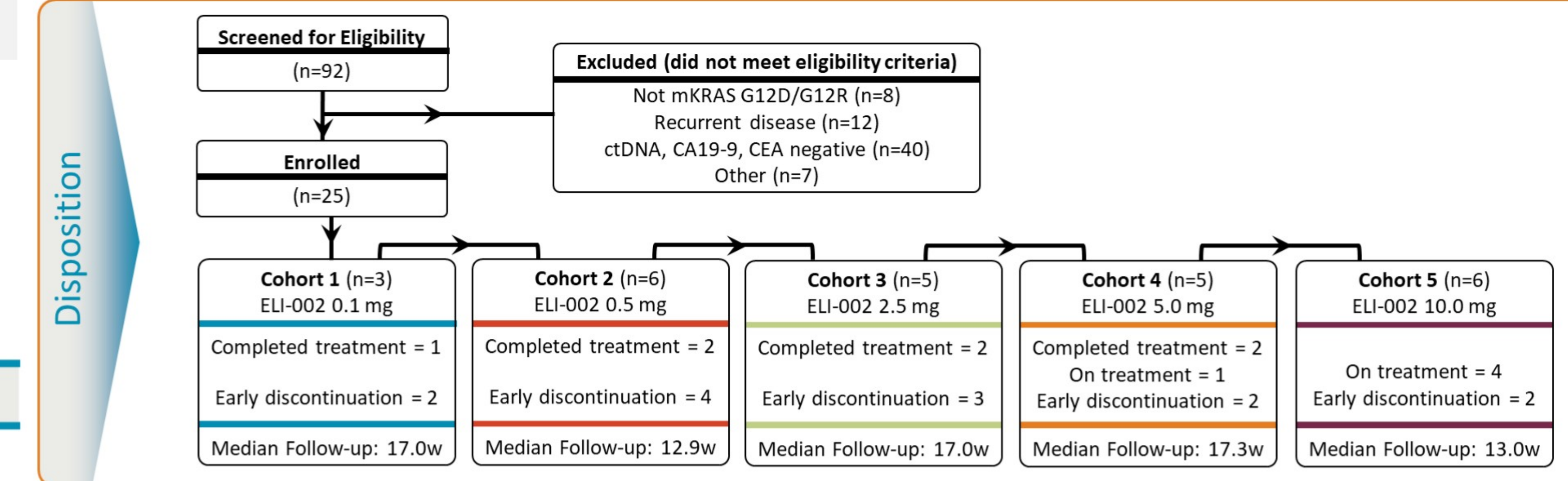
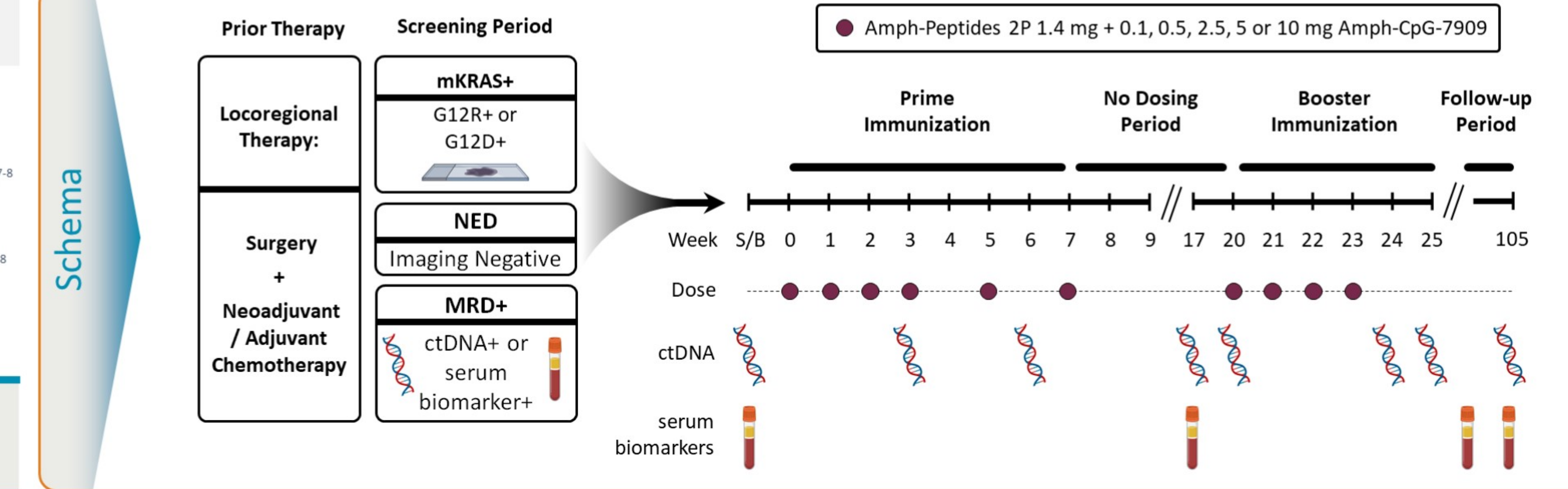


Conventional vaccine components (e.g. peptide antigens and molecular adjuvants) are rapidly absorbed into blood capillaries after administration leading to poor delivery to lymph nodes where protective immune responses are orchestrated.

Amph-modification promotes albumin binding to reprogram vaccines for enhanced lymph node delivery resulting in coordinated transport of antigen and adjuvant to immune cells. Improved uptake by Antigen Presenting Cells results in enhanced antigen-presentation and co-stimulation to cognate T cells.

Restricted delivery to lymph nodes prevents systemic exposure to avoid toxic effects of potent adjuvants.

AMPLIFY 201: Prevention of Relapse in High-risk PDAC and CRC



Demographics and Baseline Characteristics

	Cohort 1 (0.1 mg) n=3	Cohort 2 (0.5 mg) n=6	Cohort 3 (2.5 mg) n=5	Cohort 4 (5.0 mg) n=5	Cohort 5 (10.0 mg) n=6	Overall n=25
Age (years)						
Median	50.0	54.5	67.0	67.0	59.0	61.0
Range	47-61	37-69	63-77	47-75	48-69	37-77
Female Sex, n (%)	2 (66.7)	5 (83.3)	4 (80.0)	3 (60.0)	1 (16.7)	15 (60.0)
BMI (kg/m²)						
Median	25.2	22.1	22.3	23.3	26.2	23.4
Range	20.5-32.2	16.5-38.0	19.9-24.6	16.0-31.1	19.1-33.3	16.0-38.0
Race, n (%)						
Asian	0	1 (16.7)	0	0	1 (16.7)	2 (8.0)
White	2 (66.7)	5 (83.3)	4 (80.0)	5 (100)	5 (83.3)	21 (84.0)
Not reported	1 (33.3)	0	2 (20.0)	0	0	2 (8.0)
ECOG PS, n (%)						
0	3 (100)	4 (66.7)	4 (80.0)	2 (40.0)	5 (83.3)	18 (72.0)
1	0	2 (33.3)	1 (20.0)	3 (60.0)	1 (16.7)	7 (28.0)
Initial Diagnosis, n (%)						
PDAC	1 (33.3)	4 (66.7)	5 (100)	4 (80.0)	6 (100)	20 (80.0)
CRC	2 (66.7)	2 (33.3)	0	1 (20.0)	0	5 (20.0)
Disease Stage at Screening						
Stage I, II	1 (33.3)	2 (33.3)	3 (60.0)	1 (20.0)	1 (16.7)	8 (32.0)
Stage III, IV ^a	2 (66.7)	4 (66.7)	2 (40.0)	4 (80.0)	5 (83.3)	17 (68.0)
Prior Anti-cancer:						
Systemic therapy	3 (100)	6 (100)	5 (100)	5 (100)	6 (100)	25 (100)
Surgery/Procedure	3 (100)	6 (100)	5 (100)	5 (100)	6 (100)	25 (100)
Radiation therapy	2 (66.7)	1 (16.7)	1 (20.0)	2 (40.0)	1 (16.7)	7 (28.0)

BMI: body mass index; ECOG: Eastern Cooperative Oncology Group; PS: performance stats

^a Resected oligometastatic (<3 lesions) with NED on imaging was permitted

No treated related SAEs, no dose-limiting toxicities, no discontinuation of study drug due to AE

Amph-CpG-7909 was safe over a 100-fold range (0.1 – 10 mg); no T cell-related side effects

Injection site reactions, grade 1 and 2, were observed

Adverse Events and Patient Summary

	Cohort 1 (0.1 mg) n=3	Cohort 2 (0.5 mg) n=6	Cohort 3 (2.5 mg) n=5	Cohort 4 (5.0 mg) n=5	Cohort 5 (10.0 mg) n=6	Overall n=25
Adverse Event Term^a						
Patients with Any Related TEAE, n (%)	1 (33.3)	3 (50.0)	2 (40.0)	3 (60.0)	2 (33.3)	11 (44.0)
Injection site reaction	0	1 (16.7)	1 (20.0)	1 (20.0)	0	3 (12.0)
Fatigue	0	1 (16.7)	2 (40.0)	0	1 (16.7)	4 (16.0)
Headache	1 (33.3)	1 (16.7)	0	0	1 (16.7)	4 (16.0)
Asthma	0	0	0	0	1 (16.7)	1 (4.0)
Dyspnea	0	0	0	0	1 (16.7)	1 (4.0)
Nausea	1 (33.3)	0	0	1 (20.0)	0	2 (8.0)
Diarrhea	0	0	0	0	1 (16.7)	1 (4.0)
Anemia	1 (33.3)	0	0	0	0	1 (4.0)
Contusion	1 (33.3)	0	0	0	0	1 (4.0)
Dry skin	0	1 (16.7)	0	0	0	1 (4.0)
Herpes simplex reactivation	0	1 (16.7)	0	0	0	1 (4.0)
Hot flush	0	1 (16.7)	0	0	1 (16.7)	2 (8.0)
Myalgia	0	0	0	1 (20.0)	0	1 (4.0)
Nasal congestion	0	1 (16.7)	0	1 (20.0)	0	2 (8.0)
Lymphadenopathy	0	0	0	0	1 (16.7)	1 (4.0)
Pruritus	0	0	0	1 (20.0)	0	1 (4.0)
Patient Summary						
KRAS Mutation	DDD	DDDDDD	DRDDD	DDRDD	RRDDRD	
Dose Limiting Toxicity	0	0	0	0	0	0
Biomarker Reduction / Clearance	2 (67)	5 (83)	3 (60)	4 (80)	3 (100) ^b	17 (77) ^c
T cell Response	2 (67)	5 (83)	4 (80)	5 (100)	4 (100) ^d	20 (87) ^e

TEAE: Treatment Emergent Adverse Event

^a Preferred terms per the Medical Dictionary for Regulatory Activities, version 25.0

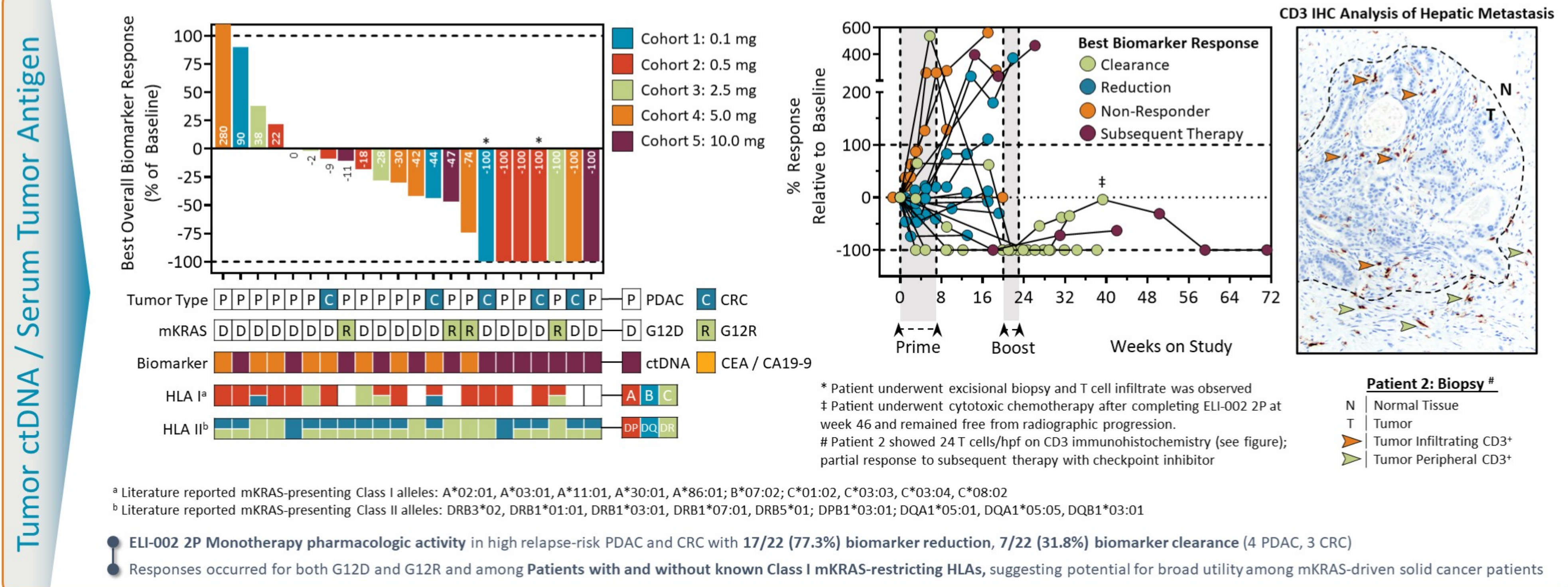
^b Measured among 3 evaluable patients

^c Measured among 22 evaluable patients

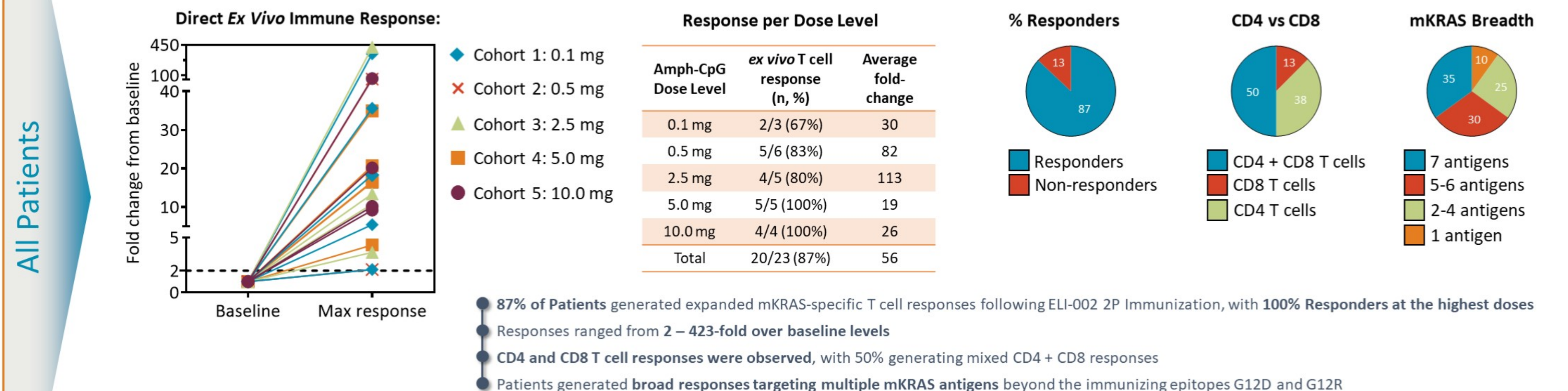
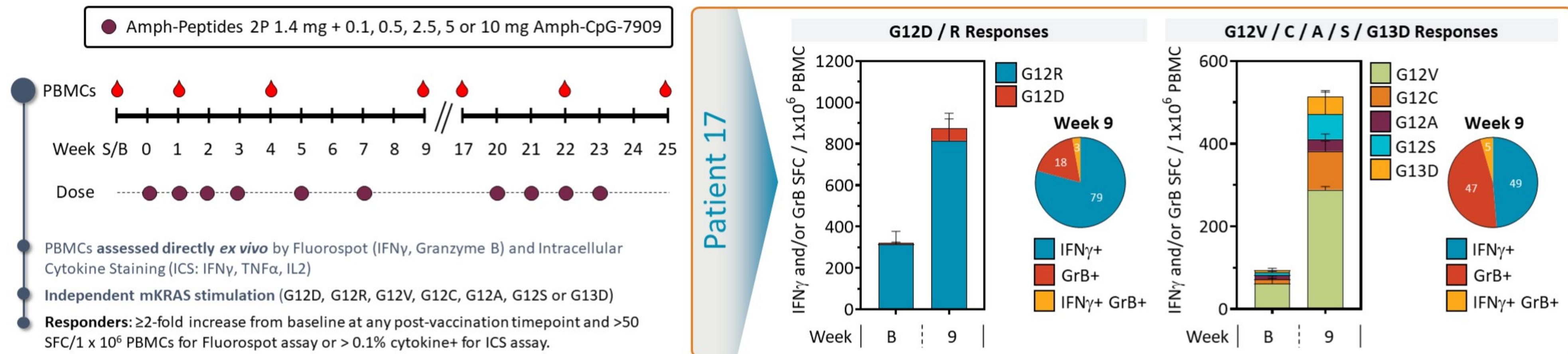
^d Measured among 4 evaluable patients

^e Measured among 23 evaluable patients

Monitoring Early Relapse via Tumor Biomarkers: ctDNA / Serum Tumor Antigen



Expansion of mKRAS-specific Immune Responses by ELI-002 2P Immunization



Lymph node-targeted Therapeutic mKRAS-specific Cancer Vaccine ELI-002 2P:

- Safe and Well-tolerated, no Dose Limiting Toxicity, no CRS
- High Proportion with Tumor Biomarker Reduction (77%) & Clearance (32%)
- Induced Robust Polyfunctional T cell Responses Directly ex vivo (87% Response)

- Follow-up for Patients treated with ELI-002 2P: Biomarker response / DOR / RFS / OS
- Open Phase 1, randomized Phase 2 Study of ELI-002 7P will expand mKRAS antigen coverage (NCT05726864) in PDAC, CRC, NSCLC patients: G12D, R, V, C, A, S, G13D

TAKE HOME MESSAGES

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- For author disclosures please refer to the abstract.



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