

The versatile ENLIST immune cell training platform,
for manufacturing SUPLEXA, is a clinically de-risked cell therapy
with broad application across multiple indications

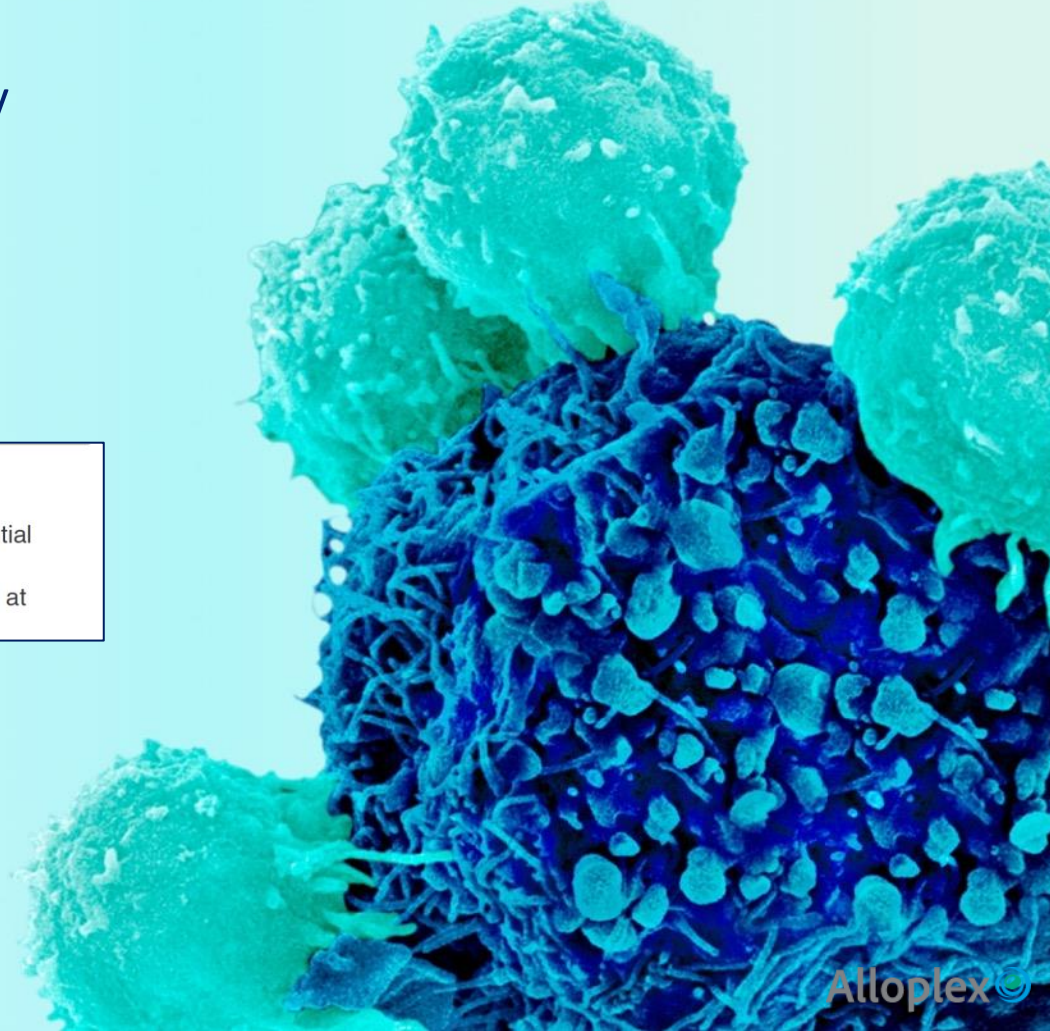


Frank Borriello
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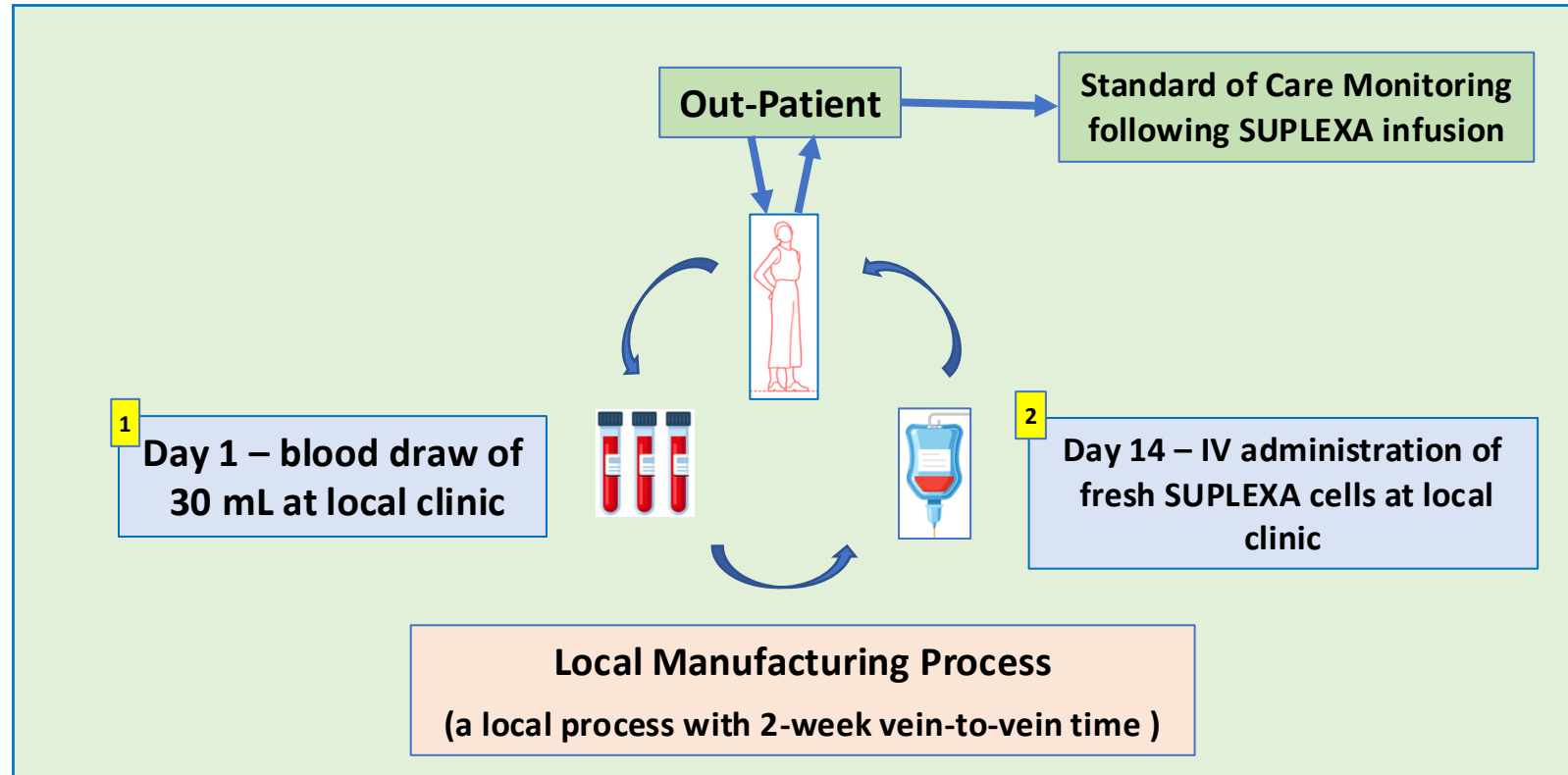
3.30 Developing Next-Gen NK Cells to Boost Safety & Potency for More Effective Cancer Therapies

- Developing strategies to enhance NK, persistence, migration, tumor-killing potential and improving safety profiles
- Exploring scalable platforms for making *ex vivo* cell manufacturing more efficient at reduced cost

March 25, 2026



SUPLEXA is a clinical stage cell therapy asset developed with a prioritization of the patient experience



- ***Robust, efficient and cost-effective*** manufacturing.
- ***Pristine safety profile*** permits out-patient treatment.
- ***Low cost of goods*** and favorable pharmaco-economics.
- ***Simplicity is the foundation of a robust, reproducible and affordable product.***

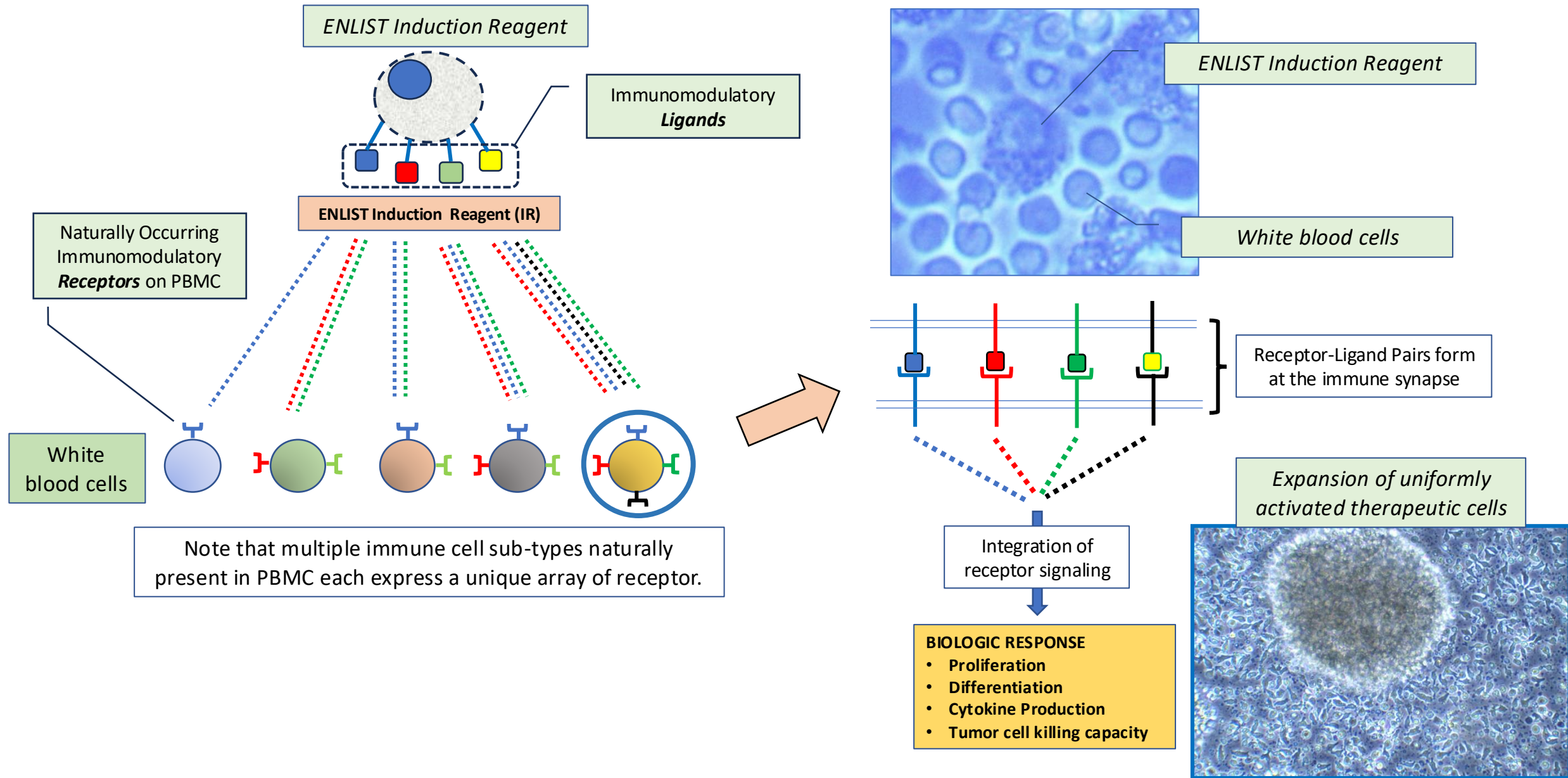
Perennial Considerations

- **Autologous versus Allogeneic**
- **Non-engineered versus engineered**
- **Source of immune cells**
- **Overall efficiency of manufacturing**
- **Safety**
- **Efficacy**
- **Ease of Manufacturing/COGs**
- **Ease of Use**
- **Potential for combination therapy**

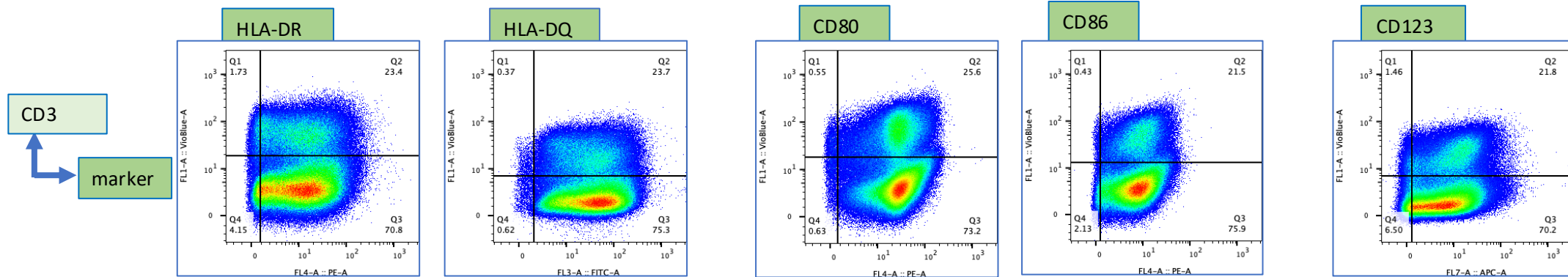
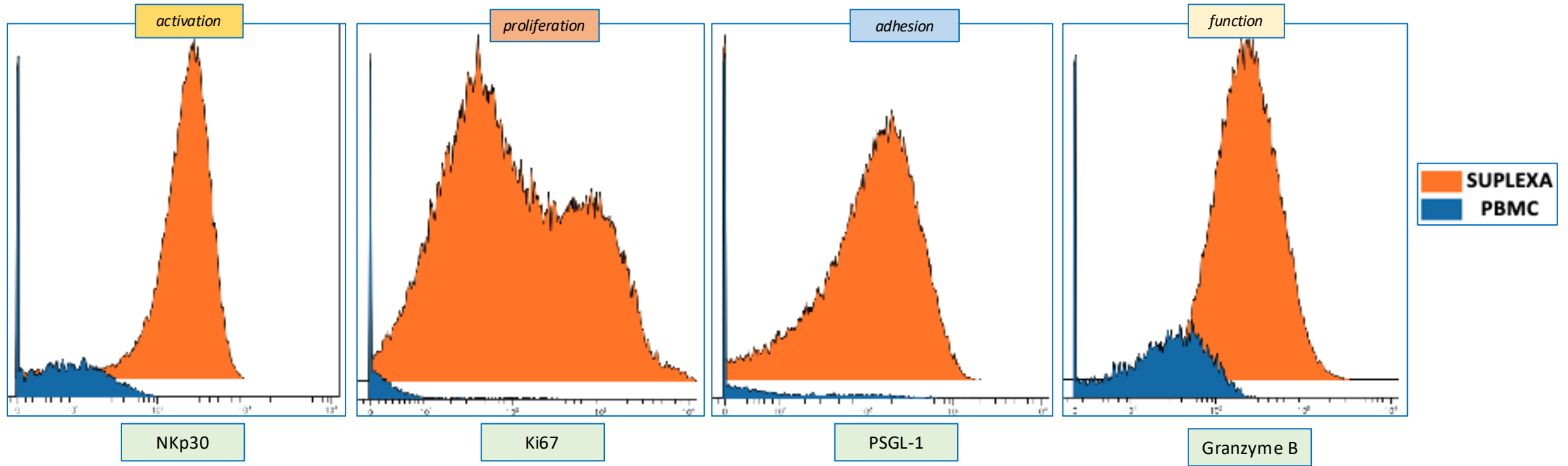
SUPLEXA Features

- **Autologous**
- **Non-engineered**
- **Whole blood**
- **100% efficiency observed in Phase 1**
- **Pristine safety observed in Phase 1**
- **Clinical activity observed in Phase 1**
- **Simple robust method with low COGs**
- **Out-patient administration with no chemo preconditioning**
- **Readily used in combination with standard-of-care**

The ENLIST-mediated immune cell training platform underpins the Alloplex pipeline

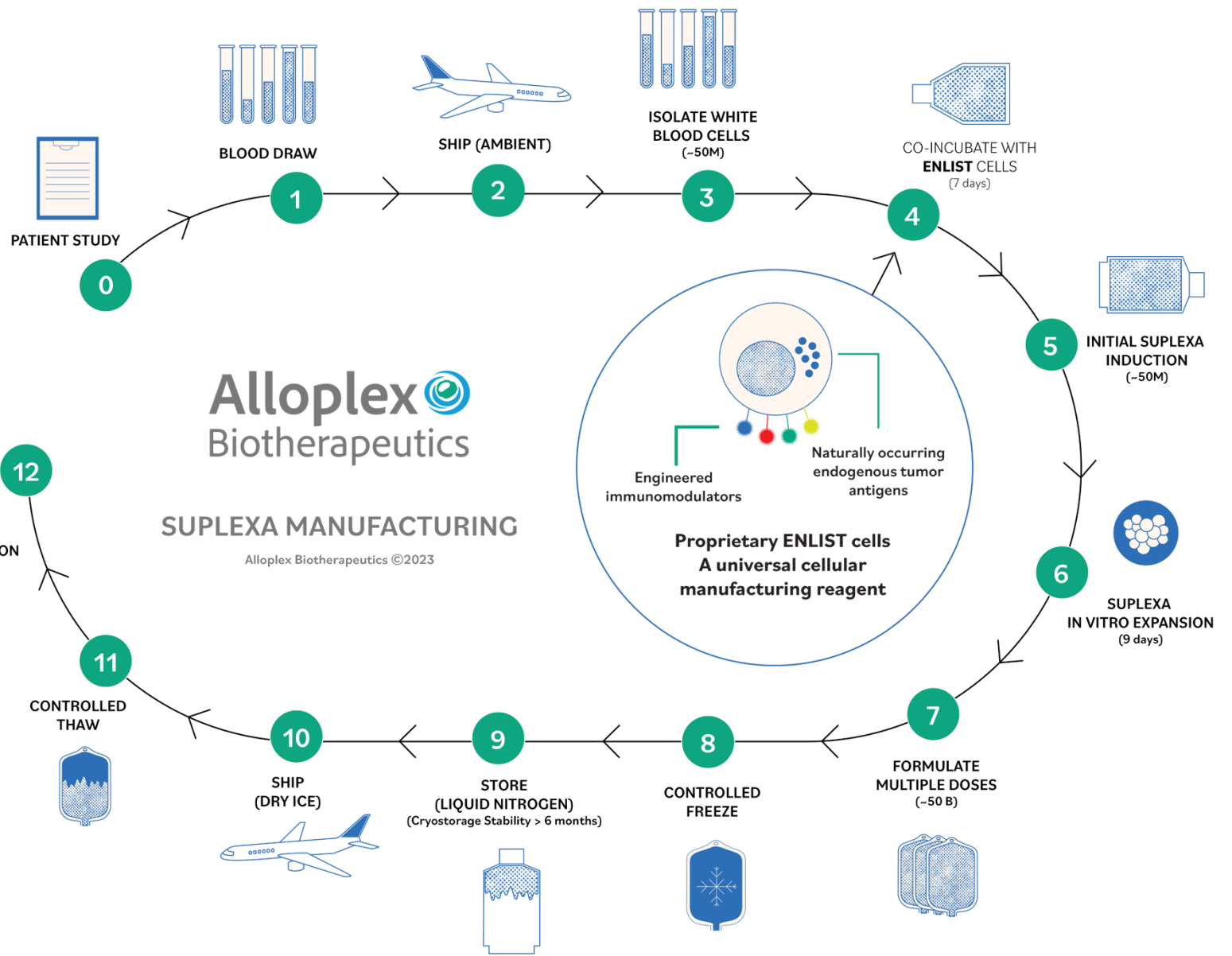
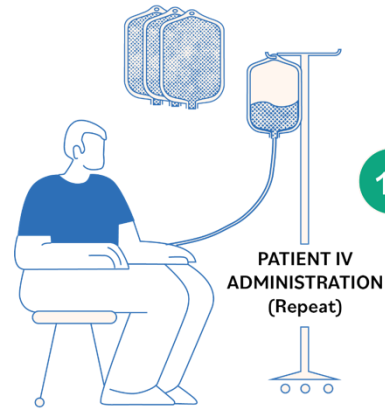


SUPLEXA characterization reveals presence of cytolytic and APC-like mechanisms



SUPLEXA are made by a clinically validated individualized, robust and reproducible process

- **Proprietary (patent and trade-secret)**
- **GMP grade**
- **Only standard equipment required**
- **Proven transferability**
- **Uniquely commercially scalable**
 - 2 air freight shipments required
 - Currently, a 35-day vein-to-vein process of which 21 days is tissue culture
 - Only 3 days require technician hands-on
- **Cost objection – to be on par with mAbs**



- Note:** Alloplex has overcome many of the issues associated with Individualized manufacturing and therapeutic implementation.
- No leukopheresis,
 - just venipuncture and PBMC isolation
 - No cell selection
 - No genetic engineering
 - No chemo preconditioning for lymphodepletion
 - No clinical cytokine support required
 - Multiple doses possible

Final safety and efficacy update of SUPLEXA-101, a First-in-Human, Single-Agent Study of SUPLEXA Therapeutic Cells in Metastatic Solid Tumors

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Background

SUPLEXA therapeutic cells are an autologous, non-engineered cell therapy derived from patient PBMCs isolated from about 50 mL of whole blood. They are composed of highly activated immune cells and are broadly cytolytic against an array of tumor cell lines in vitro without harming normal cells. SUPLEXA cells express features that enable direct tumor lysis as well as characteristics of antigen presenting cells (APCs). This first-in human study is a non-comparative, open-label, single-agent survey study designed to address safety and clinical activity in subjects with various solid tumors. Notably, no other active agents were used in these end-stage patients, thus toxicity from chemotherapeutic preconditioning and cytokine support was avoided.

SUPLEXA manufacturing



Note: Only 50 mL of whole blood is required per patient.

Study Design

This poster reports on SUPLEXA-101, 35 patients with histologically or cytologically confirmed measurable solid tumors, radiographically confirmed metastatic cancer who had exhausted standard options. All eligible subjects received a minimum of 3 weekly dose of SUPLEXA of approx. 2.5 billion cells per dose. At the discretion of the Investigator, Sponsor Medical Monitor and in agreement with the subject, additional SUPLEXA infusions were administered when available. Response was assessed by imaging on an 8-12 schedule.

Objectives	Endpoints
Assess safety and tolerability of SUPLEXA in subjects with realigned solid tumors.	Incidence of DLTs, AEs, SAEs.
Assess the efficacy of SUPLEXA based on RECIST evaluation criteria.	Overall Response Rate (ORR), Complete Response (CR), Stable Disease (SD), Progressive Disease (PD).
Clinical Efficacy Endpoints:	Time to Event (TTE), Duration of Response (DOR), Clinical Benefit Rate (CBR), Overall Survival (OS).
Scientific Exploratory Studies	Immunophenotyping of SUPLEXA-infused cells, Evaluation of lymphocyte-associated receptors in individual patients assessing for changes in cellular composition and effector cytokines.

Summary of Demographics and Baseline Characteristics

All patients had exhausted standard therapeutic options including chemotherapy and immune checkpoint inhibitors (ICIs).

Parameter	Statistics	Solid tumor Pts
Age (N), Mean (SD)	(35), 63.6 yrs (10.1)	
Gender	Male, Female	18, 17
Race	Caucasian, Asian	31, 4
ECOG Status (Total), 0, 1, 2, 3, 4	(35), 24, 11, 0, 0, 0	

Safety (treatment emergent adverse events)

Parameter	Statistics	Solid Tumors
Total subjects	35	35
Subjects with at least one TEAE	35 (100%)	35 (100%)
Subjects reporting TEAEs by severity		
Subjects with at least one serious TEAE		
Subjects reporting drug related TEAEs		

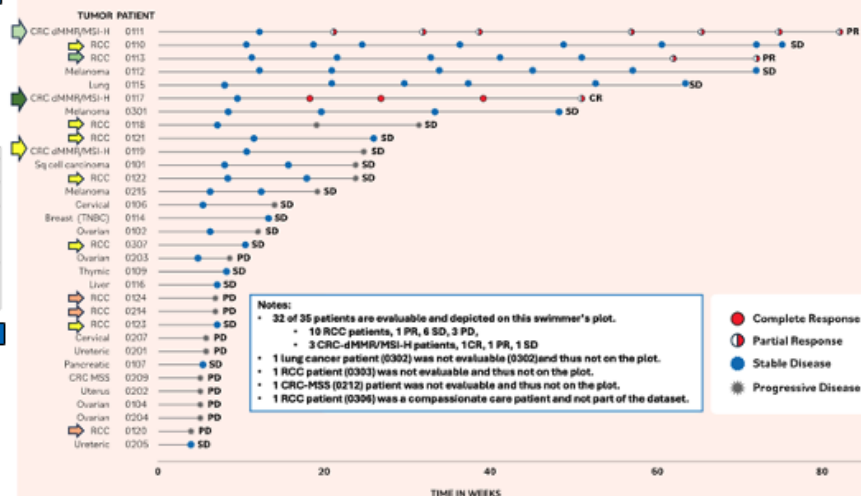
Note: Critically, there were no DLTs identified, no injection site reactions, no serious drug related adverse events, no laboratory abnormalities, no abnormalities in vital signs and ECGs

Best Overall Response and Event-free Survival

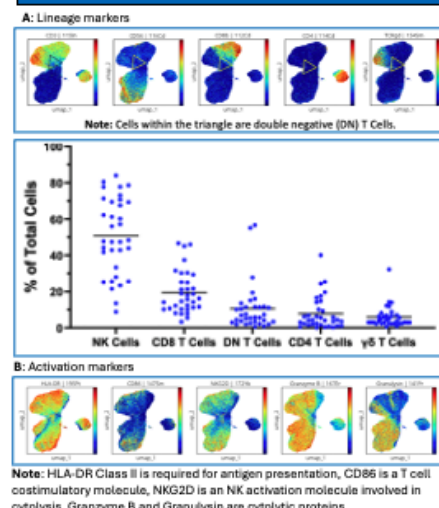
Best Overall Tumor Response	N (%)
Overall Response Rate (ORR)	3 (9.4)
Complete Response (CR)	1 (3.3)
Partial Response (PR)	2 (6.3)
Stable Disease (SD)	19 (58.4)
Progressive Disease (PD)	10 (31.3)

Descriptive	Statistics	Solid Tumors
N	32	32
Event Censored	13	13
Time to Event (weeks)	Median (95% CI)	19.3 (7.1, NE)
Event-free Rate (%) (95% CI)		
12 weeks		61.2 (41.8 - 75.1)
24 weeks		36.9 (19.3 - 54.6)
36 weeks		32.8 (16.1 - 50.6)
48 weeks		32.8 (16.1 - 50.6)

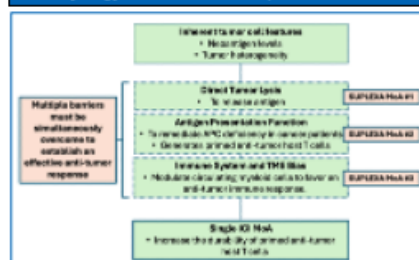
Swimmers Plot and Best Overall Clinical Responses



Composite CyTOF Data for 35 SUPLEXA Clinical Batches



SUPLEXA mechanisms provide a strong rationale for synergy with immune checkpoint inhibitors



It is widely accepted that the key mechanism by which ICI act on the immune system is by blocking the activation of a checkpoint protein (e.g., PD-1 and CTLA4) which would otherwise down-regulate the anti-tumor host T cell response. This means that ICI are dependent on the availability of anti-tumor host T cells for their activity. As cancer patients have a known defect in the antigen presenting cells that prime anti-tumor host T cells, this may provide a bottle neck which when combined with an abundance of suppressive Tregs and MDSC, restrains a functional anti-tumor immune response. We hypothesize that the multiple mechanisms of SUPLEXA shown above, are complementary to that of ICIs and should result in an increased availability of primed anti-tumor host T cells and an alteration in the myeloid compartment that results in an immune environment more permissive to their function.

Conclusions

All study endpoints were achieved. Safety was established over a wide dose range (3-20 doses of 2.5B cells per patient) and a total of >220 administered doses. No related DLTs, injection site reactions or drug related serious adverse events were identified throughout the course of the study. Signs of clinical efficacy were demonstrated with a CR and two PRs and a number of long-lasting SD responses in various tumor types including, CRC-dMMR/MSI-H, ccRCC, melanoma, lung cancer and TNBC.

Based on these positive first-in-human single-agent clinical trial results in select tumor types – supported by laboratory evidence that SUPLEXA cells modulate the immune environment of treated patients – a Phase 2 study of SUPLEXA combined with ICIs in front-line CRC-dMMR/MSI-H patients is under development. Since SUPLEXA possesses APC-like properties, we hypothesize that SUPLEXA cells may facilitate the production and function of anti-tumor primed T cells. Since the mechanism of action for immune checkpoint inhibitors depends on the presence of such primed T cells, we suggest that a combination of SUPLEXA with ICIs may result in synergistic activity with an improvement in the current 12-month PFS of ~55%.

This Phase 2 study will be open label 2-arm comparing the standard of care ICI against ICI combined with SUPLEXA. The advantage of such a study is that all participants receive ICI standard of care, and as front-line patients are less fragile.

For further information, see accompanying poster, Poster 378, 'Transcriptional and proteomic insights into the immunomodulatory nature of SUPLEXA cells: An autologous cellular therapy for cancers'

Acknowledgments

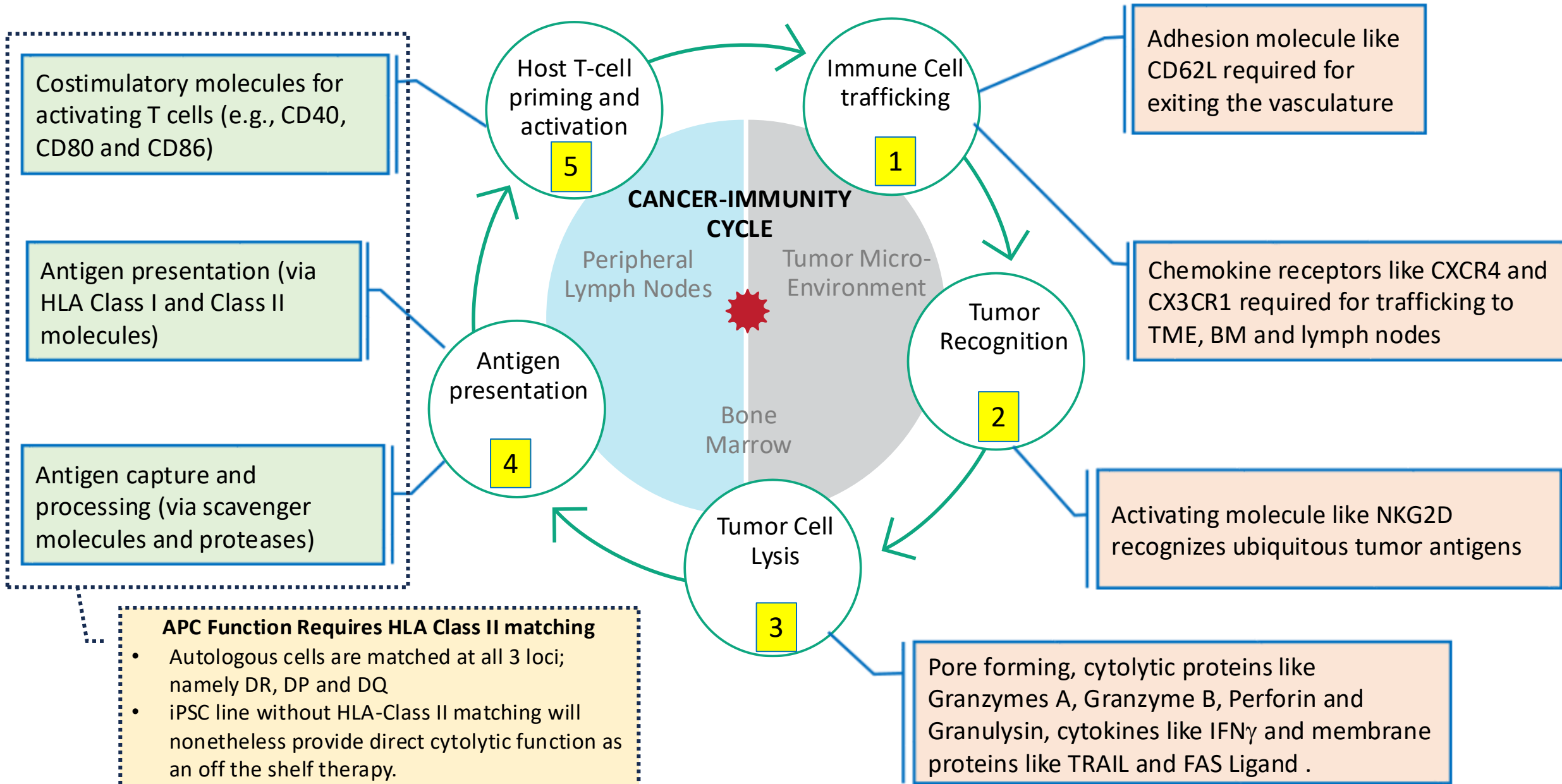
We thank the patients, their families and our clinical partners, for their support Syner-G BioPharma Group, QIMR Berghofer Medical Research Institute (QGEN Cell Therapeutics in Brisbane AUS), Novotek (Sydney, AUS) for Trial Oversight.

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 SITC
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 Nov 7-10, 2024

SUPLEXA Therapeutic Cells: the first cell therapy candidate to emerge from the ENLIST immune cell training platform

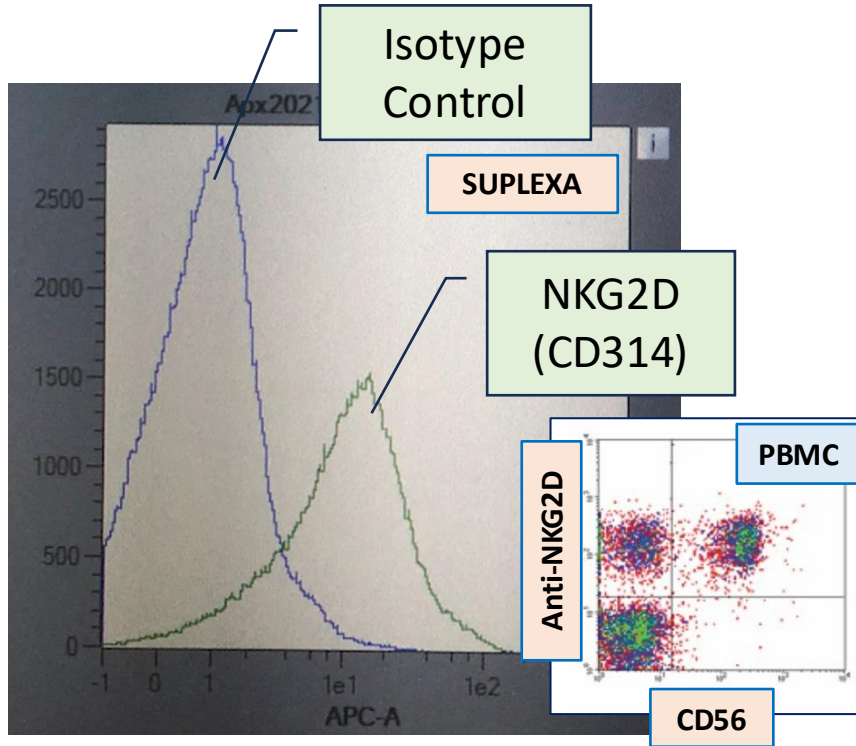
- **Lead program** - autologous (self), non-engineered, PBMC-derived option.
 - Unbiased approach requiring no cell selection.
 - Avoids the introduction of immunogenicity through expression of a foreign protein which could be recognized by the host and negatively impact cell persistence and durability.
 - Follows an established regulatory paradigm.
- **Manufacturing** - Requires only ~50 mL of whole blood and 35-day vein-to-vein time.
 - Highly scalable manufacturing with multiple infusions made from a single manufacturing batch.
- **Uniquely activated immune cell product** comprised predominantly of NK- and T- lineage cells.
 - High levels of HLA Class II, T cell costimulators, cytolytic proteins, activation proteins, cytokines and chemokines with their associated receptors.
 - Notably devoid of exhaustion markers such as PD-1, CTLA4 and NKG2A checkpoints
- ***Single-agent Phase 1 study in metastatic solid tumor patients achieved all prespecified endpoints***
 - **Entry Criteria** - Patients had exhausted all standard options including chemo and checkpoint inhibitors.
 - No chemo preconditioning or supportive cytokines were used.
 - **Safety** – pristine profile (only several transient Grade 1/2 adverse events).
 - **Efficacy** – activity in multiple solid tumor types with durability.
 - **Exploratory** - pharmacodynamic biomarkers identified in myeloid blood composition.
- **Multiple potential mechanisms** of activity have been identified for SUPLEXA cells.

SUPLEXA cells act by multiple mechanisms at discrete steps in the cancer-immunity cycle



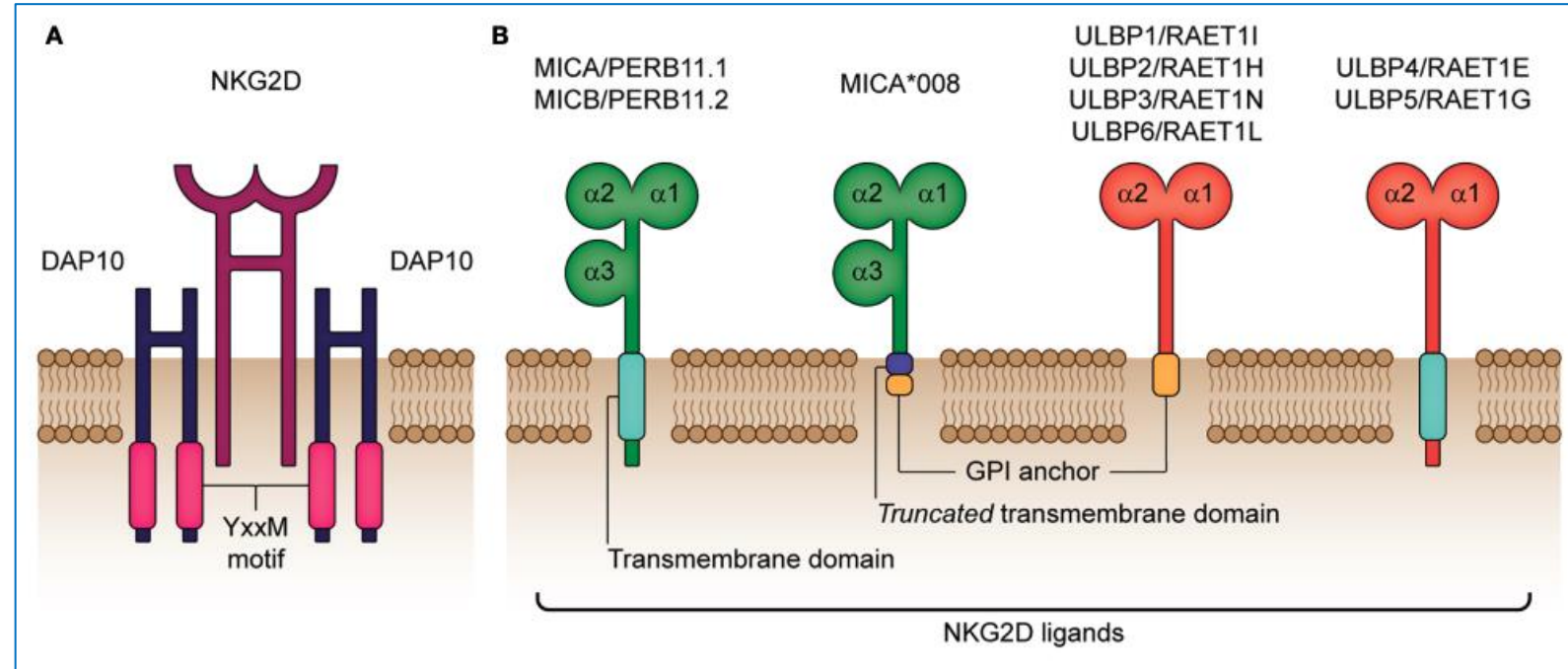
SUPLEXA cells target tumor cells, in part, via expression of the germline encoded NKG2D receptor

NKG2D is an activation receptor that detects stress ligands that are ubiquitously expressed on tumor cells



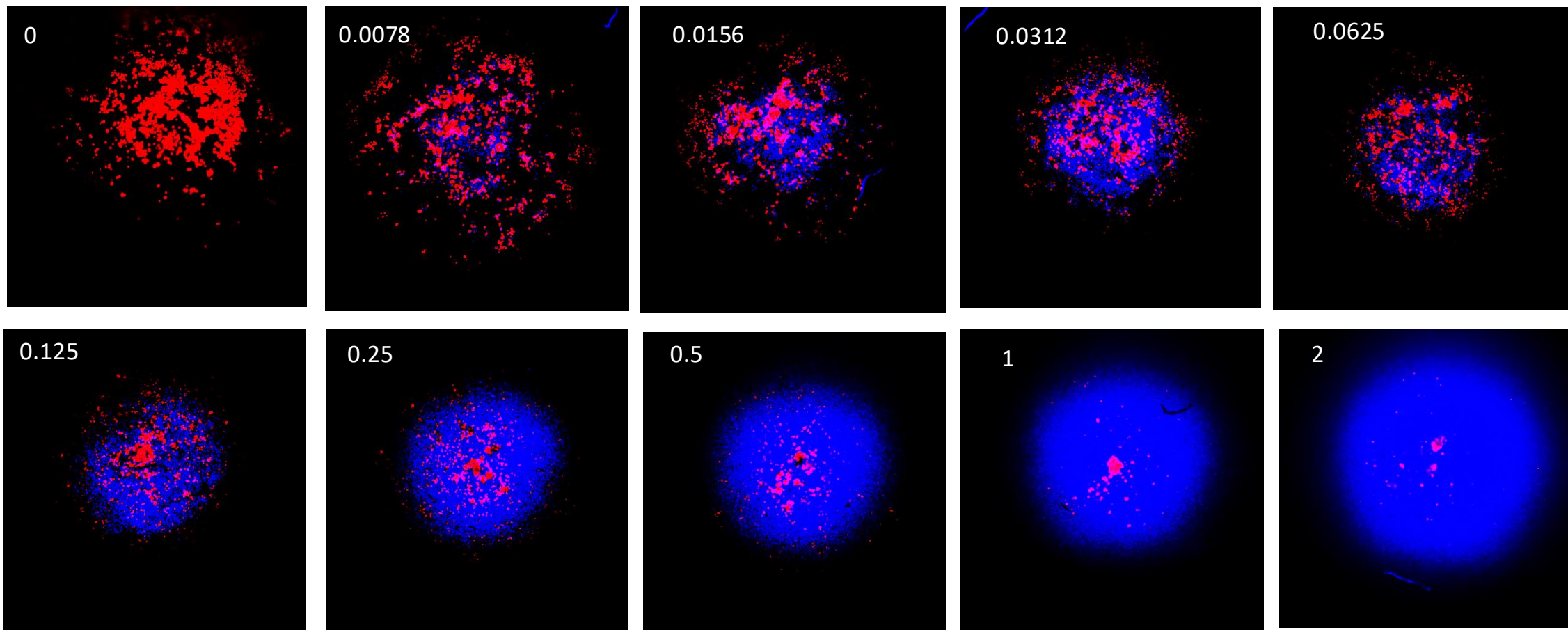
NKG2D (stress) ligands are inducible by

- Tumor transformation (cancer cells)
- Acute Damage (infection)
- Chronic damage by age (senescent cells)



NSCLC PDX Organoid Data

CTG-3651 SUPLEXA Cells 24h treatment; similar results observed for a CRC PDX model



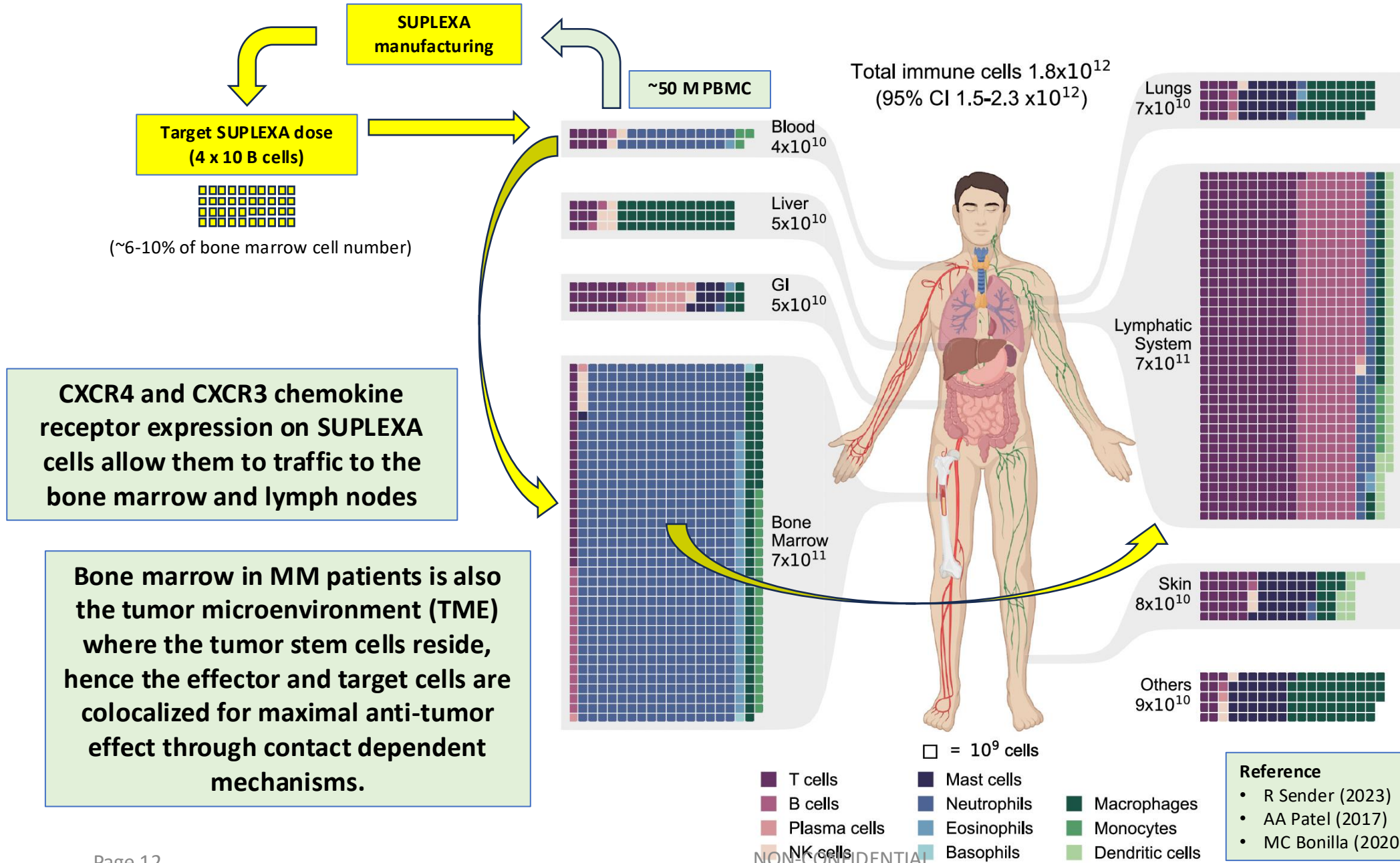
Live PDX Tumor Cells

Live SUPLEXA Cells

• **Representative images from Day 4 of the assay (Images after 24 hours of co-culture)**

• Representative images from each of the 9-cell concentration tested are shown here with cell number (in millions) in the top-left corner at 4x magnification. Contrast has been adjusted to optimally depict representative images at higher cell doses, but uniform settings were used throughout for analysis.

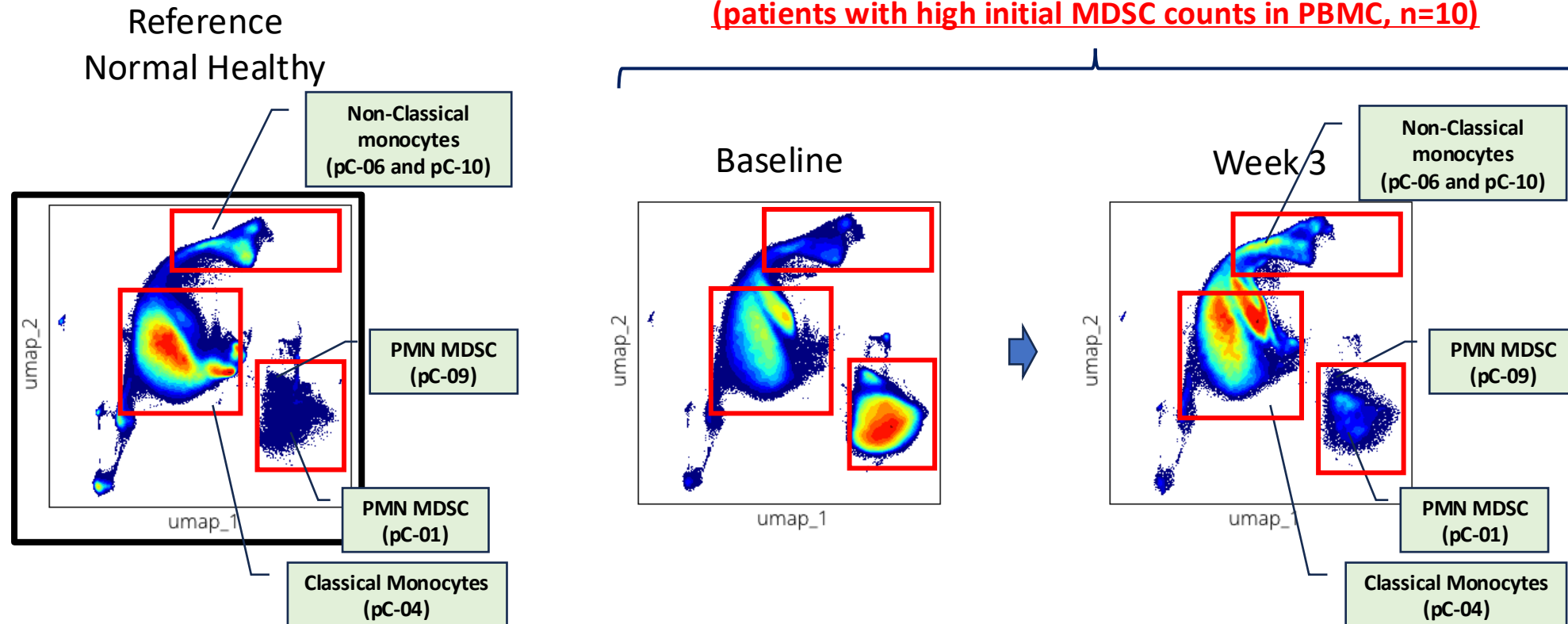
Perspective on SUPLEXA cell number relative to host immune cell populations



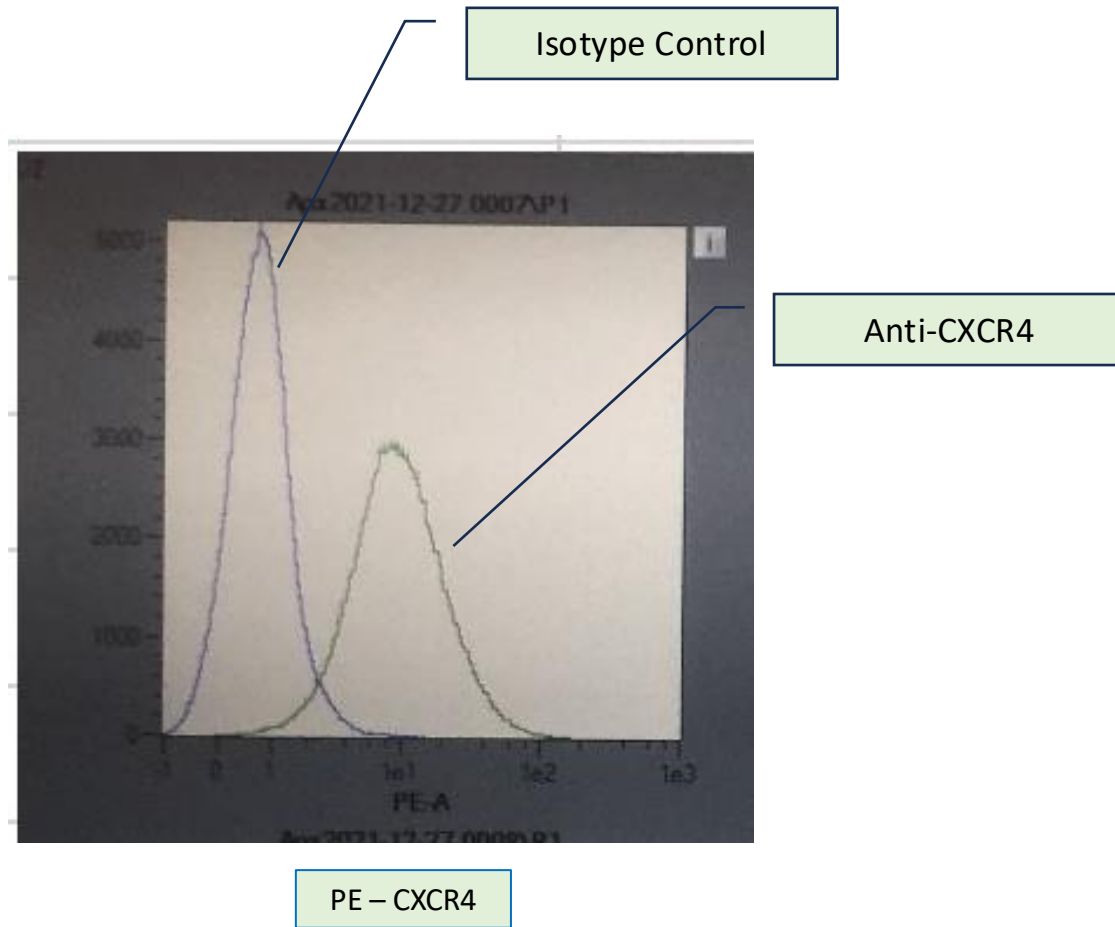
SUPLEXA induces a pharmacodynamic alteration in the peripheral blood of treated patients suggesting bone marrow modulation

- Myeloid derived suppressor cells (MDSCs) are short lived cells capable of potently suppressing host immune responses.
- An accumulation of MDSC in the bone marrow of MDS patients is observed and believed to be responsible for degradation of bone marrow function and linked to poor prognosis.
- Elevated MDSC levels are also considered a major contributor to immune checkpoint inhibitor (ICI) failure.
- SUPLEXA cells have the potential to reduce MDSC levels in the bone marrow and peripheral blood of MDS patients.

Contour Plots Showing Treatment Response (patients with high initial MDSC counts in PBMC, n=10)



CXCR4 Expressed on SUPLEXA Cells Enables Migration to the Bone Marrow



- CXCR4 is uniformly expressed on ~100% of SUPLEXA cells.
- CXCR4 activation potentiates chemotactic activity in various cell types
- CXCL12 (SDF-1) is the only known ligand for CXCR4
- CXCL12 (SDF-1) is produced by stromal cells in the bone marrow as well as fibroblasts that comprise the bulk of the tumor microenvironment (TME).

Rationale for the Prioritization of Hematologic Malignancies

- *in vitro*, SUPLEXA cells are cytolytic against a broad array of tumor cells upon contact.
- *in vivo*, SUPLEXA cells can traffic to the bone marrow and lymph nodes putting them in juxtaposition to tumor cells residing in those locations – this is due to their expression of well-understood chemokine receptors.



Key question – Can SUPLEXA cells be made from the blood of patients with hematologic malignancies?

CLL patient PBMC samples already proven to work using first gen SUPLEXA process (poster below)



Engineered immunostimulatory cells can convert Tumor killing immune cells into potent tumor killing immune cells

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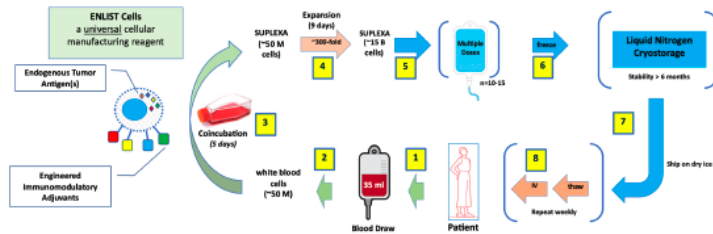


ABSTRACT #7517

Background

A unique autologous cellular therapeutic (SUPLEXA) has been developed from human PBMC. It is comprised of NK cells, NKT-like cells, $\gamma\delta$ T cells and CD8⁺ T effector cells, capable of broadly lysing a variety of tumor cell lines in vitro. SUPLEXA cells are manufactured using an efficient 2 weeks xeno-free manufacturing procedure employing two proprietary engineered leukocyte stimulator cell lines (ENLIST) that express an array of immunomodulatory proteins. This process leads to a 300-fold expansion of NK cells, CD8⁺ T cells, NKT-like cells, and TCR $\gamma\delta$ T cells that are called SUPLEXA cells, which will be cryopreserved, and then transferred back into patients as an autologous immune cell therapy for cancer. In this study, PBMCs from CLL patients were used to generate SUPLEXA cells as a first approach to comparatively profile SUPLEXA cells from cancer patients and normal healthy volunteers (NHVs).

The SUPLEXA cell manufacturing process uses peripheral blood mononuclear cells (PBMCs) from cancer patients. PBMCs are stimulated with ENLIST cells for a 5-day induction period, which is then followed by a 9-day cytokine-induced expansion period. SUPLEXA cells are then cryopreserved to use as an autologous adoptive immunotherapy. A first-in-human clinical trial for this novel adoptive cellular immunotherapy for cancer is projected to begin later this year.



Methods

ENLIST cells: Engineered SK-MEL2 melanoma cell lines that express curated sets of > 20 different immunomodulatory proteins that are engineered for membrane expression.

SUPLEXA cell generation: Two million (M) PBMCs isolated from direct blood draws from 10 CLL patients or 5 NHVs were incubated with 0.4 M freeze/thaw killed ENLIST cells for 5 days in XIVO-15 medium with 2% heat-inactivated human AB serum (XAB2) and then split 1:15 in XAB2 containing IL-7 and IL-15 to expand. After 9 days, SUPLEXA cells were harvested and cryopreserved.

Mass Cytometry (CyTOF): SUPLEXA cells were comprehensively characterized by mass cytometry (CyTOF) using a 47-marker antibody panel. CyTOF data analysis was done using an analysis workflow of dimensional reduction by PCA embedded opt-SNE using OMIQ

Tumor Cell Killing Assay: Tumor cytolytic activity was measured by flow cytometry using fluorescent tumor cell targets at 2:1, 1:1, and 1:2 effector:target cell ratios. M14 melanoma cells that express red fluorescent protein (RFP) were used as tumor cell targets for these studies. Cytolysis was measured at 48 hours.

Cytokines: A 33 cytokine Luminex panel was used to assess cytokine levels in tumor cell cytotoxicity supernatants.

Marker	Meta	CytoF Antibody Panel	Rate
CD45	any	Pro-inflammatory marker	
CD170	33302	Monocyte cell marker	
CD34	33306	CD34 T cell adhesion	
CD38	1386	CD38 T cell adhesion	
CD56	33342	CD56 T cell marker	
CD3	1465	AT cell marker	
CD137	1466	Adhesion molecule for NK cell activation	
CD138	1467	Adhesion molecule for NK cell activation	
CD139	1468	Adhesion molecule for NK cell activation	
CD14	1469	Adhesion molecule for NK cell activation	
CD146	1470	Adhesion molecule for NK cell activation	
CD147	1471	Adhesion molecule for NK cell activation	
CD148	1472	Adhesion molecule for NK cell activation	
CD149	1473	Adhesion molecule for NK cell activation	
CD150	1474	Adhesion molecule for NK cell activation	
CD151	1475	Adhesion molecule for NK cell activation	
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CD216	1540	Adhesion molecule for NK cell activation	
CD217	1541	Adhesion molecule for NK cell activation	
CD218	1542	Adhesion molecule for NK cell activation	
CD219	1543	Adhesion molecule for NK cell activation	
CD220	1544	Adhesion molecule for NK cell activation	

Results

Figure 1: SUPLEXA Cell Manufacturing and Study Design. ENLIST immunomodulatory cells are mixed with PBMCs and cultured for 5 days to activate PBMCs. Activated cells are then expanded for 9 days in IL-7 and IL-15. Photomicrographs of 5-day activated PBMCs are shown to illustrate the strong immune reaction induced by ENLIST cells

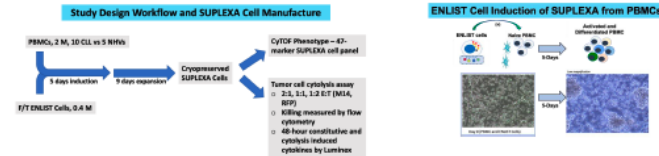
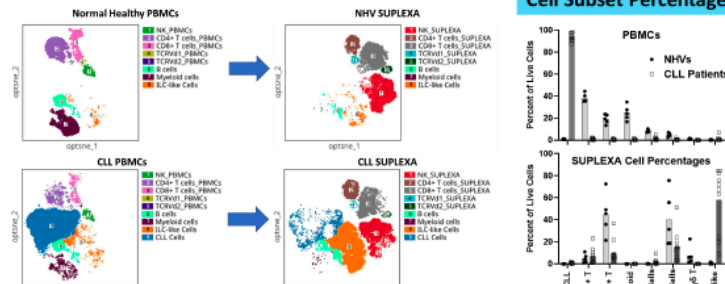
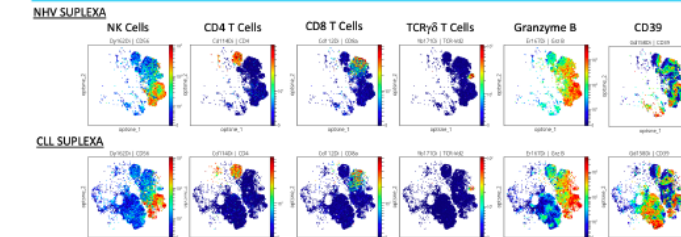


Figure 2: SUPLEXA Cell Phenotyping By CyTOF: SUPLEXA cells from CLL patients and NHVs were analyzed to compare single-cell phenotypes using a customized 47-marker CyTOF antibody panel to identify NK cell and T cell subsets as well as transcription factors, adhesion markers, and functional molecules. Our CyTOF data analysis workflow, cell subset overlay plots of SUPLEXA differentiation of PBMCs from NHVs vs. CLL patients, and cell marker expression profiles of SUPLEXA from NHVs and CLL patients for comparison are shown. Results indicate that SUPLEXA cells can be generated from CLL PBMCs that contain 90% CLL cells.

CyTOF Phenotyping of NHV and CLL PBMC SUPLEXA Differentiation

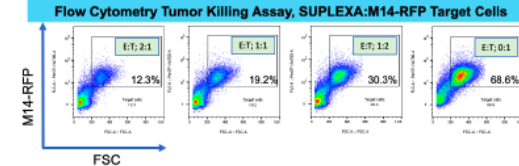


Cell Marker Expression Profiles on SUPLEXA from NHVs and CLL Patients



Results

Figure 3: Tumor Cell Cytotoxicity Assay and Killing Activity. SUPLEXA cells from NHVs and CLL patients were compared for tumor cell cytotoxic activity against fluorescent tumor target cells using a flow cytometry method. Figures show representative killing of M14-RFP target cells and comparative tumor cytotoxic activity SUPLEXA from 2 NHVs and 10 CLL patients. Results show potent and similar tumor cytotoxic activity between NHV and CLL SUPLEXA cells.



Comparison of NHV and CLL SUPLEXA Cytotoxic Activity

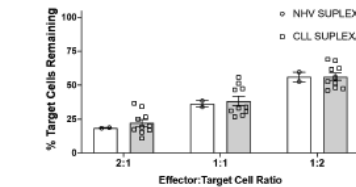
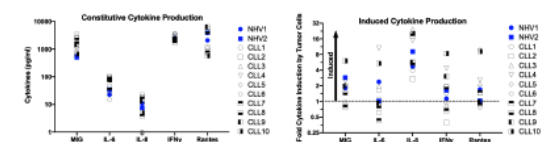


Figure 4: Cytokine Production by SUPLEXA During Tumor Cytotoxicity. SUPLEXA cells were incubated without or with M14 tumor cells for 48 hours. Supernatants were tested for cytokines by 33-plex Luminex. Plots of constitutive and tumor cell (M14) induced cytokine production by SUPLEXA from NHVs and CLL patient are shown. Results show comparable levels of cytokine production between CLL and NHV SUPLEXA cells.

Constitutive and Induced Cytokine Production by NHV and CLL SUPLEXA

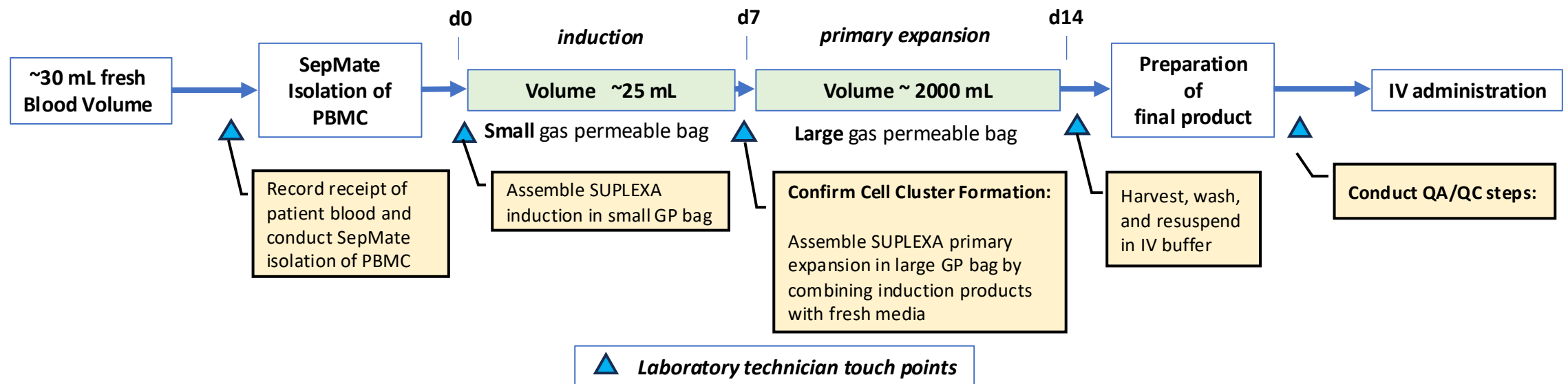


Conclusions

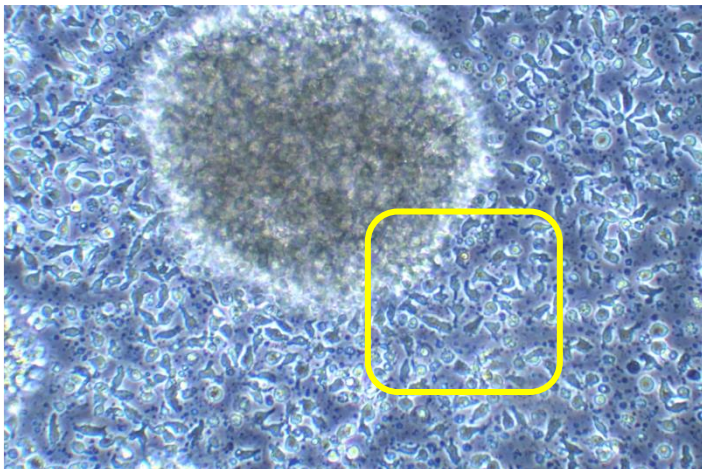
- We show consistent ENLIST cell induced generation of SUPLEXA cells from CLL patients and CLL cells die or are killed during the SUPLEXA manufacturing process
- CytoF single-cell phenotyping of SUPLEXA cells from CLL patients and NHVs showed overlapping phenotypes, but also some important differences:
 - No TCR $\gamma\delta$ T cell expansion from CLL PBMCs
 - Expansion of ILC-like cells in CLL patients - CD45+, CD39+, CD69+, Tbet+, Granzyme B and SLAMF6+ cells without T, B, myeloid, or NK markers
- SUPLEXA cells from NHV and CLL patients showed identical levels of potent tumor cell killing activity and cytokine production profiles with normal distribution of heterogeneity

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Simplicity is key to Local Manufacturing



The stage is set for the clinical testing of SUPLEXA cells in hematologic malignancies



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