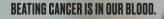
• LLS TAP

THERAPY ACCELERATION PROGRAM

LORE GRUENBAUM, VP, TAP JAVEED FROOZAN, VP, BD & SA

September 2021



LEUKEMIA & LYMPHOMA SOCIETY[®]

LLS MISSION AND PURPOSE

The mission of The Leukemia & Lymphoma Society (LLS) is to cure leukemia, lymphoma, Hodgkin's disease and myeloma, and improve the quality of life of patients and their families. We fund **RESEARCH** to advance lifesaving treatments.

We provide patients, survivors, caregivers, families and healthcare professionals with hope, guidance, **EDUCATION** and **SUPPORT**.

We drive **ADVOCACY** for policies that protect patient access to lifesaving treatment.



Approximately every **3 minutes** someone in the U.S. is diagnosed with blood cancer

BEATING CANCER IS IN OUR BLOOD.



Nearly **1.4 million** people in the U.S. are living with or in remission from leukemia, lymphoma or myeloma

About **30 percent** of blood cancer patients still do not survive five years after diagnosis



About **40 percent** of all pediatric cancers are blood cancers



LLS MISSION INVESTMENT IS SUPPORTED BY MULTIPLE REVENUE SOURCES PAGE 3



OUR IMPACT

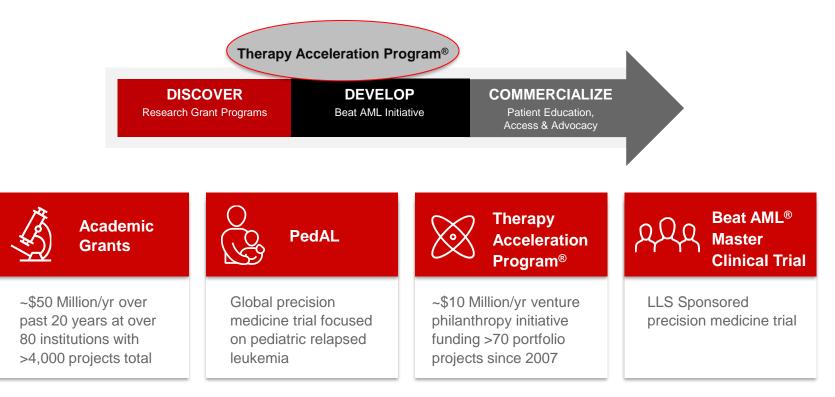
- Invested nearly \$1.3 billion in research and development worldwide since founded in 1949
- Helped advance 52 of 60 FDA approved blood cancer drugs
- Supported >93,000 patients since inception
- Responded to 20,000 inquiries in 2019



LLS GLOBAL RESEARCH AND DEVELOPMENT FOCUS

BEATING CANCER IS IN OUR BLOOD.

Research and development programs and clinical trials using LLS resources





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LLS THERAPY ACCELERATION PROGRAM (TAP)

Venture philanthropy funding to support novel therapies

Established in 2007

>\$125 Million invested to date

- Biotech: >\$90 Million
- Institutions: ~\$35 Million
- >70 financings of companies and assets
- >20 assets currently in active development

3 FDA-Approved Therapies

- Vyxeos (AML)
- Yescarta (DLBCL, tFL, PMBCL)
- Elzonris (BPDCN)

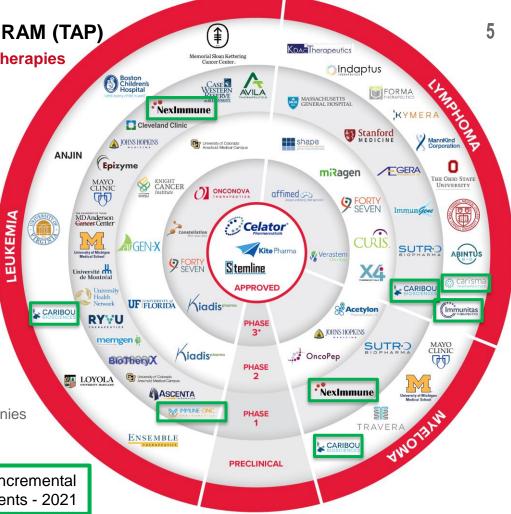
ROI Focus:

- FDA Approvals
- Assets in clinical development
- Strategic transactions & financing for portfolio companies
- Financial ROI to LLS

www.LLS.org/therapy-acceleration-program

BEATING CANCER IS IN OUR BLOOD.

New + Incremental Investments - 2021



*Includes Phase 2 registration-enabling studies

LLS TAP SCIENTIFIC & BUSINESS LEADERSHIP



Lore Gruenbaum, PhD VP, TAP

- 20 years drug discovery & clinical development
- VP, Gotham Therapeutics; Exec Dir, Applied Biomath
- Biomarker Head, Virology, Roche; Group Leader, BI
- Yale postdoctoral work, principal investigator and collaborator on several SBIR grants



Lee Greenberger, PhD SVP, Chief Scientific Officer

- 20 years big pharma and biotech
- Overight responsibility for >\$50 M annual research budget
- Advanced > 10 oncology therapeutics into the clinic
- Search & due diligence experience with big pharma



Javeed Froozan, MBA, BS VP, Business Development

- 25 years biopharma and health technology value creation
- Sr. Dir, Emergent BioSolutions, Multiple start-ups/exits, 2 IPOs
- Business lead on EBS-Trubion M&A transaction. Alliance Manager for Pfizer relationship
- Strategic Investments, M&A, Business Development, Asset Management, and Economic Development



Blaine Robinson, PhD Executive Director, TAP

- 15 years research & clinical development in blood cancer
- Search & Diligence on 100+ projects
- Scientific lead for over 20 TAP projects including Constellation, Kymera, Ryvu & most recently Abintus, Caribou & Immune-Onc
- Pediatric leukemia researcher, Children's Hospital of Philadelphia



Jun Xu, PhD Executive Director – TAP Lead

- 20 years oncology/ immunology drug discovery/development
- Search & Diligence on 100+ projects
- Scientific lead for over 20 TAP projects including multiple high impact ones, such as Stemline, Kite, argenX, Forty Seven & most recently Carisma



Therapy Acceleration Program Committee: https://www.lls.org/therapy-acceleration-program/oversight

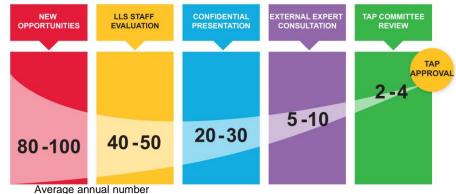
BEATING CANCER IS IN OUR BLOOD.

TAP GOALS & INVESTMENT STRATEGY

Accelerate innovative blood cancer therapies and generate ROI for LLS mission

Focus on high-value assets:

- Existing and emerging populations with high unmet needs
- Gaps in current and emerging treatment landscape
- Innovative science, first-in-class assets
- First-in-heme/onc and registration trials
- Strong intellectual property, management, and finances





BEATING CANCER IS IN OUR BLOOD.



TAP BIOTECH ACCELERATION MODEL

2 PATHS TO CO-INVEST WITH INVESTORS AND VENTURE PHILANTHROPIES



Strategic

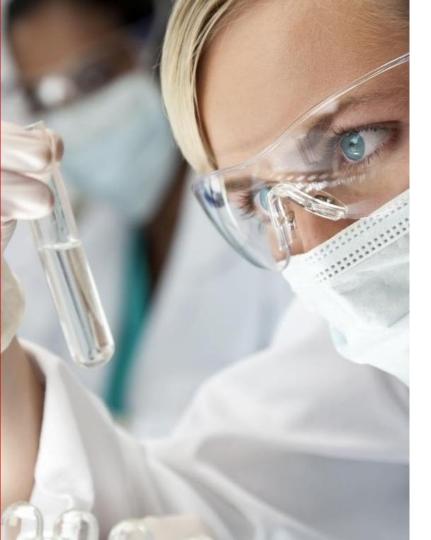
- Range of Investment:
 \$2 Million to \$10 Million
- Presentation to TAP Committee
- Typically, 3-6 months to reach TAP Committee



Opportunistic

- Target Investment: \$500,000
- LLS TAP team briefs TAP Committee Chair
- Transaction completion in 1-3 months





TAP VALUE ADD TO BIOTECH COMPANIES

TAP-funded companies benefit from LLS blood cancer insight

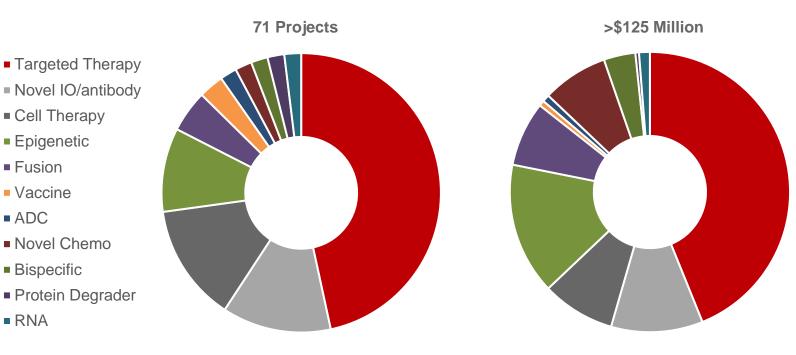
- Deep knowledge of indications and rapidly changing SoC
- Unique scientific, clinical, and drug development expertise
- Patient access services to enable understanding of patient needs
- Immediate access to extensive KOL network
- Pharmaceutical, biotech, and research institution partner connections
- Regulatory insight through LLS initiatives (Beat AML Master Clinical Trial[®])

TAP record of success provides scientific & investment credibility, and visibility enabling companies to raise additional funds.



TAP PORTFOLIO THERAPEUTIC PLATFORMS FUNDED (2007-2021)

Portfolio is aligned with strong industry focus on Targeted Therapy and reflects growing interest in Cell and IO Therapies in blood cancer





BEATING CANCER IS IN OUR BLOOD.

TAP team understands & successfully invests in complex therapeutic areas

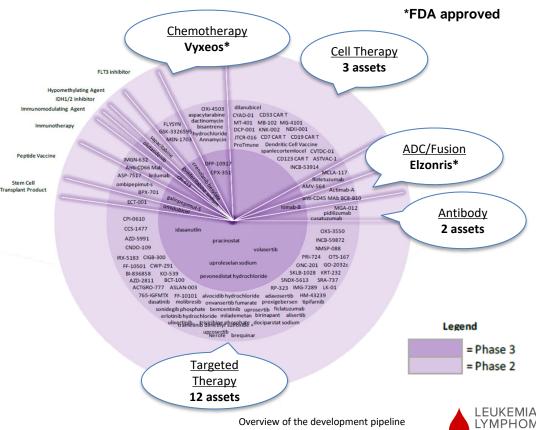
High Unmet Medical Need

- 72,000 newly diagnosed in 8 major markets (2019)
- >10,000 deaths per year in US
- Complex, heterogeneous disease
- Ineffective long-term disease control with current therapies
- Elderly patients not fit for chemo
- Growing use of targeted therapies and combinations

Significant Market Opportunity

- Global AML market \$1.4 Billion (2019)
- CAGR 13.6% (projected to 2029)

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2020 @GlobalData





TAP PORTFOLIO ASSETS IN DEVELOPMENT

Therapy	Target/Modality	Indications	Preclinical	Phase 1	Phase 2	Phase 2 Reg / Phase 3	FDA status
Magrolimab + Azacitidine	CD47 antibody	MDS	1	1		Orty Seven ¹	武寺
AFM13	CD30/CD16A bispecific engager	PTCL		1		affi med	Ť
Pelabresib + Ruxolitinib	BET small molecule	MPN		1			† <i>Ξ</i> ズ
Duvelisib	PI3Kδ/γ small molecule	PTCL		I I		Verastem ³	† <i>⊒</i> ズ
Magrolimab + Rituximab	CD47 antibody	DLBCL		1	Orty Seven ¹		
Cusatuzumab + Azacitidine	CD70 antibody	AML	- 	, , ,	argenx		Ť
KO-539	Menin small molecule	AML		KURA ⁴		I	Ť
STRO-001	CD74 antibody drug conjugate	NHL/MM	1	SUTR: BIOPHARMA		1	Й (ММ)
Mavorixafor + Ibrutinib	CXCR4 small molecule	Waldenström macroglobulinemia	1		l I	I I	Ť
RVU120	CDK8/19 small molecule	AML/MDS					Ť
PVX-410 + ACY-241 +/- Len	XBP1/CD138/CS1 vaccine	Smoldering myeloma	1	OncoPep	 	1	Ť
NEXI-001 NEXI-002	T cell therapy	AML MM		• NexImmune		1	
BTX-A51	CK1-a/CDK7/CDK9 small molecule	AML/MDS	1	C BioTheryX			
10-202	LILRB4 antibody	AML/CMML	1		I	l	Ť
CB-010	CD19/PD1 KO allogeneic CAR	NHL					
KT-413 KT-333	IRAKIMiD degrader STAT3 degrader	DLBCL Heme malignancies	KYMERA	I I	1	🕴 🛉 Orphan Drug De	signation
IMT-009	CD161 antibody	NHL	THERAPEUTICS	1			
TBD	in vivo CAR	TBD	ABINTUS	1		Fast Track Desig	
TBD	CAR macrophage	TBD		l I	l	Breakthrough Th	erapy Designation

TAP FUNDED ASSETS CREATE VALUE

TAP portfolio partners have had successful M&A, collaboration and licensing transactions



Transactions >\$20 Billion



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TAP PORTFOLIO COMPANY WITH ASSETS IN ACTIVE BLOOD CANCER DEVELOPMENT

SIGNIFICANT EQUITY FINANCING RAISED CONCURRENT WITH OR POST- LLS TAP FUNDING

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Equity since TAP Funding*	TAP Portfolio Company
>\$1 Billion	argenx Epizyme
>\$500 Million	Constellation ¹ Kura ² Kymera ²
\$250-\$500 Million	Caribou ² Curis Forty Seven ³ Sutro
\$100-\$250 Million	Affimed BioTheryx ² Neximmune ² X4 ²
\$50-\$100 Million	Carisma ² Immune-Onc ² Immunitas ² Ryvu WindMIL ²
<\$50 Million	Abintus ² Indaptus ² OncoPep ²

Table incudes assets without a regulatory approval . *GlobalData as of August 31, 2021



1: LLS asset funding (07/2021 M&A by MorphoSys); 2: LLS equity; 3: LLS equity participation plus asset funding (05/2020 M&A by Gilead)



KEY POINTS

LLS TAP has established record of success

- Targeting unmet medical needs
- Leading to FDA approvals of life changing therapeutics
- Creating value for patients, companies and ROI for the LLS mission

LLS would like to expand the reach & impact of the TAP program

- Leverage its unique expertise in novel collaborations
- Attract more companies and investors to blood cancer indications
- Expand TAP capacity to support the most promising assets

For more information, contact:

Lore Gruenbaum, PhD 914.821.8361 | Lore.Gruenbaum@LLS.org Javeed Froozan, MBA 914.821.8817 | Javeed.Froozan@LLS.org



TAP SUCCESS STORIES





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TAP SUCCESS: NOVEL LIPOSOMAL CYTOTOXIC THERAPY

Vyxeos[®] is the first FDA-approved treatment for two types of poor-prognosis AML (2017)

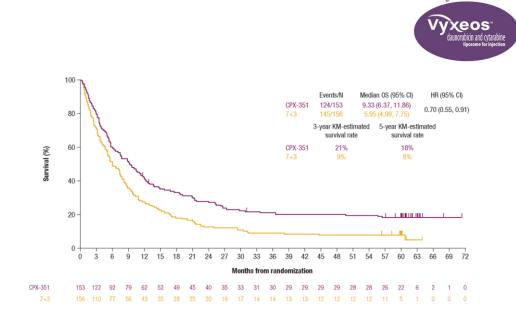


ACQUIRED BY JAZZ PHARMA FOR \$1.5 BILLION IN 2016

LLS TAP PROVIDED:

\$9.15 MILLION ASSET FUNDING

ROI: \$25.3 MILLION



Five-year final results of a phase 3 study of CPX-351 versus 7+3 in older adults with newly diagnosed high-risk/secondary AML

J. Lancet et al., ASCO 2020



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TAP SUCCESS: CD19 CHIMERIC ANTIGEN RECEPTOR (CAR) T-CELL THERAPYPAGE 18

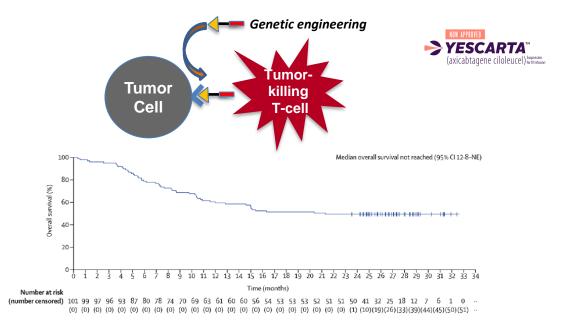
Yescarta[®] is the first FDA-approved CAR-T Therapy in NHL (2017) LLS has invested > \$80 M in Cellular Immunotherapy since 1998

ACQUIRED BY GILEAD FOR \$11.9 BILLION IN 2017

LLS TAP PROVIDED:

\$2.5 MILLION ASSET FUNDING

ROI: \$6.25 MILLION



Long-term safety and activity of axicabtagene ciloleucel in refractory large B-cell lymphoma (ZUMA-1): a single-arm, multicenter, Ph 1-2 trial

Locke et al. 2019. Lancet Oncology



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TAP SUCCESS: NOVEL TARGETED CD123 FUSION PROTEIN

Elzonris® is the first approved therapy for rare blood cancer indication BPDCN (2018)

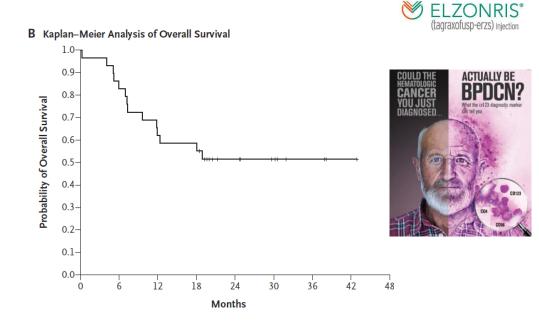
<u>S temline</u>

ACQUIRED BY MENARINI GROUP FOR \$677 MILLION IN 2020

LLS TAP PROVIDED:

\$2.9 MILLION NET ASSET FUNDING

ROI: \$7.25 MILLION TO DATE



Treatment outcomes of 29 patients with blastic plasmacytoid dendritic cell neoplasm (BPDCN) who received first-line treatment with tagraxofusp: Probability of overall survival

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TAP SUCCESS: MAGROLIMAB (ANTI-CD47 ANTIBODY)

Magrolimab + Azacitidine induces high response rates in MDS and AML Initiation of registration-enabling studies in 2020

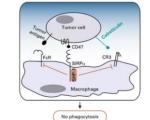
SEVEN

ACQUIRED BY GILEAD FOR \$4.9 BILLION IN 2020

LLS TAP PROVIDED:

\$4.175 MILLION ASSET FUNDING \$3 MILLION EQUITY INVESTMENT

ROI: >\$40 MILLION

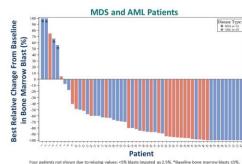


Magrolimab blocks the 'don't eat me' signal on tumor cells

Best Overall Response	1L MDS N=33	1L AML N=25 16 (64%)	
ORR	30 (91%)		
CR	14 (42%)	10 (40%)	
CRi	NA	4 (16%)	
PR	1 (3%)	1 (4%)	
MLFS/marrow CR	8 (24%) 4 with marrow CR + HI	1 (4%)	
Hematologic improvement (HI)	7 (21%)	NA	
SD	3 (9%)	8 (32%)	
PD	0	1 (4%)	

nse assessments per 2006 IWG MDS criteria and 2017 AMI EIN criteria. Patients with at least 1 post

treatment response assessment are shown; all other patients are on therapy and are too early for first response assessment, except for 2 MDS patients not evaluable (withdrawal of consent) and 3 AML patients (1 AE, 2 early



- Magrolimab + AZA induces a 91% ORR (42% CR) in MDS and 64% ORR (56% CR/CRi) in AML
- Responses deepened over time with a 56% 6-month CR rate in MDS patients (assessed in all patients 6 months after initial treatment)
- Median time to response is 1.9 months, more rapid than AZA alone
- Magrolimab + AZA efficacy compares favorably to AZA monotherapy (CR rate 6-17%^{1,2})

1. Azacitidine USPL 2. Fenaux P, et al. *Lancet Oncol.* 2009 ;10(3):223-232.
PRESENTED AT: 2020 ASCO #ASCO20

PRESENTED BY: DAVID A. SALLMAN, MI







TAP SUCCESS: KO-539 (MENIN INHIBITOR)

First-in-class inhibitor of the menin-MLL interaction in Ph1 trial for patients with relapsed/refractory AML



PRECLINICAL COMPOUNDS RELATED TO KO-539 LICENSED TO KURA ONCOLOGY IN 2015

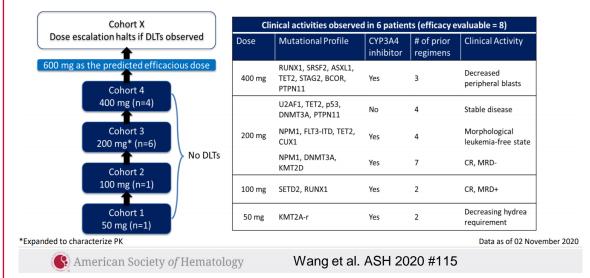
LLS TAP PROVIDED:

\$6.31 MILLION ASSET FUNDING TO U MICHIGAN

ROI: EQUITY: 26,000+ SHARES + \$26,000+ CASH TO DATE



KO-539 Demonstrates Encouraging Early Clinical Activity



- Grants initially and then TAP supported preclinical development (including chemistry) of menin-MLL interaction inhibitors by Jolanta Grembecka at University of Michigan and licensing of assets to Kura Oncology in Dec 2014
- Phase 1/2a trial for R/R AML with MLL fusions/NPM1 mutations
 - First patient dosed in Sept 2019
 - Initiated expansion cohorts in July 2021



TAP SUCCESS: PELABRESIB (BET INHIBITOR)

Pelabrelib + Ruxolitinib induces high spleen volume response rates in JAK-naive myelofibrosis Initiation of registration-enabling study in 2020 First Novel Mechanism Beyond JAK Inhibitors to Demonstrate POC in 1L MF

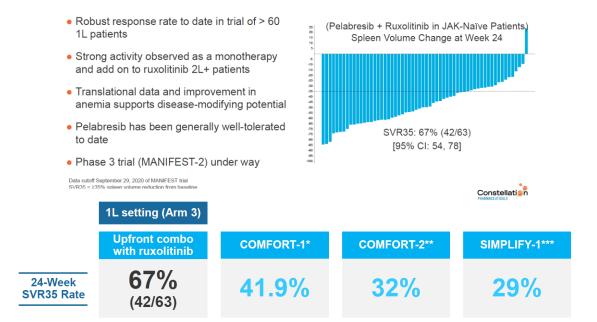


ACQUIRED BY MORPHOSYS FOR \$1.7 BILLION IN 2021

LLS TAP PROVIDED:

\$7.35 MILLION ASSET FUNDING

ROI: \$7.35 MILLION TO DATE



SVR35 response = ≥35% spleen volume reduction (Measured at 24 Weeks)

* COMFORT-1: A Double-blind, Placebo-controlled Trial of ruxolitinib for Myelofibrosis. Verstovsek, S., et al; N Engl J Med 2012;366:799-807.

** COMFORT-2: A Double-blind, Placebo-controlled Trial of ruxolinib vs. Best Available Therapy (BAT) for Myelofibrosis. Harrison, C., et al; NEJM 2012; 336: 787-798.
*** SIMPLIFY-1: A Phase III Randomized Trial of Momelotinib Versus ruxolitinib in Janus Kinase Inhibitor-Naïve Patients With Myelofibrosis. Mesa, R., et al. J Clin Oncol 2017: 35(34):3844-3850.



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THERAPY ACCELERATION PROGRAM COMMITTEE

Casey Cunningham, MD (Chair) + Santé Ventures

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Robert Spiegel, MD Spiegel Consulting LLC

David Weinstock, MD Dana-Farber Cancer Institute

+ National Board Member





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THANK YOU!

LLS Research **Grants and TAP**

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Erik Nelson, PhD Exec. Dir. Research

Jun Xu, Ph.D.

Exec. Dir. TAP



Sr. Dir. Research



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Blaine Robinson, PhD Javeed Froozan, MBA

Exec. Dir. TAP VP of BD & Alliance



