

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



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



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

Research and development programs and clinical trials using LLS resources





Academic Grants

~\$50 Million/yr over past 20 years at over 80 institutions with >4,000 projects total



PedAL

Global precision medicine trial focused on pediatric relapsed leukemia



Therapy Acceleration Program[®]

~\$10 Million/yr venture philanthropy initiative funding 66 portfolio projects since 2007



Beat AML® Master Clinical Trial

LLS Sponsored precision medicine trial



LLS THERAPY ACCELERATION PROGRAM (TAP)

Venture philanthropy funding to support novel therapies

Established in 2007

>\$120 Million invested to date

- Biotech: >\$80 Million
- Institutions: ~\$40 Million
- >60 financings of companies and assets
- >20 assets currently in clinical 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



*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, PhDSVP, 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, PhDExecutive Director, TAP

- 15 years research & clinical development in blood cancer
- Search & Diligence on 100+ projects, managed over 20 TAP partnerships including Constellation, Epizyme, miRagen & most recently Kymera
- 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, and Forty Seven

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

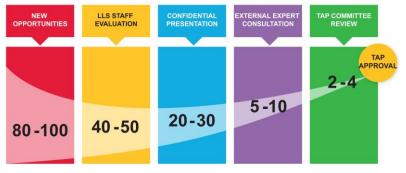


TAP GOALS & INVESTMENT STRATEGY

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



Average annual number



2 PATHS TO CO-INVEST WITH INVESTORS AND VENTURE PHILANTHROPIES



Strategic

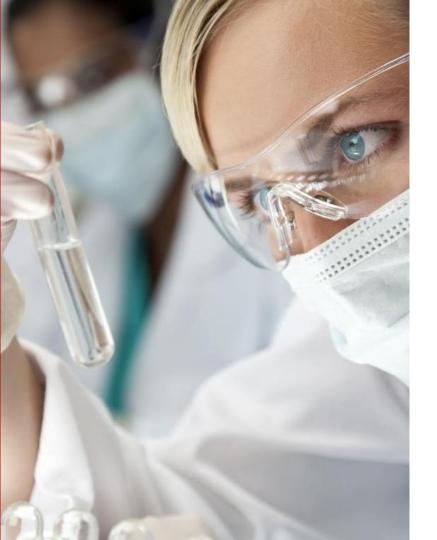
- Range of Investment: \$2 Million to \$10 Million
- Presentation to TAP Committee
- Typically 3-6 month to reach TAP Committee



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 ACADEMIC CLINICAL MODEL

Co-fund assets with institutions on clinical stage projects



Therapeutics Development

Collaborate with leading institutions on assets with potential to outlicense or spin out



Clinical Indication Expansion

Actively solicit and fund innovative ISTs to impact the current SoC



Special Projects

Build collaborations with non-profits and other cooperative groups

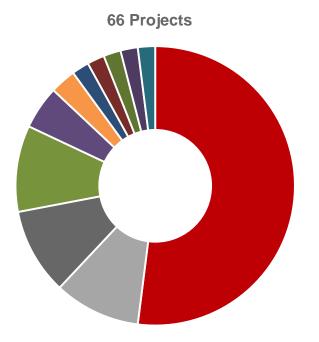


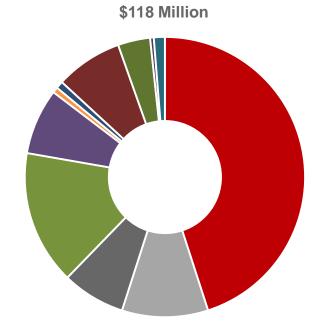
TAP PORTFOLIO THERAPEUTIC PLATFORMS FUNDED (2007-2020)

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



- Novel IO/antibody
- Cell Therapy
- Epigenetic
- Fusion
- Vaccine
- ADC
- Novel Chemo
- Bispecific
- Protein Degrader
- RNA







TAP PORTFOLIO INVESTMENTS IN ACUTE MYELOID LEUKEMIA (AML)

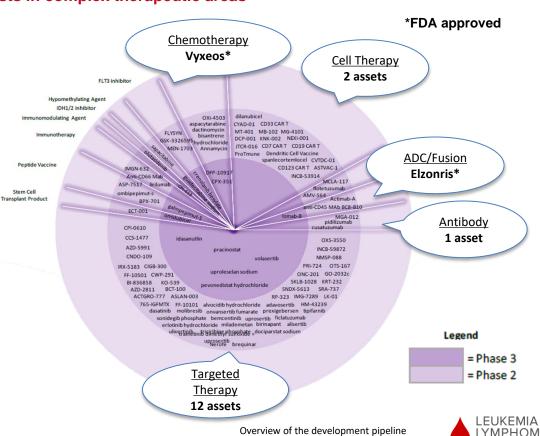
TAP team understands & successfully invests in complex therapeutic areas

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)



2020 @GlobalData

TAP PORTFOLIO ASSETS IN DEVELOPMENT

Therapy	Target/Modality	Indications	Preclinical	Phase 1	Phase 2	Phase 2 Reg / Phase 3
Magrolimab + Azacitidine	CD47 antibody	MDS	1			Forty Seven¹
AFM13	CD30/CD16A bispecific engager	PTCL				affi med
CPI-0610 +/- Ruxolitinib	BET small molecule	MPN				Constellation
Duvelisib + Romidepsin	PI3Kδ/γ small molecule	PTCL	1	!	!	Verastem ² Oncology
Magrolimab + Rituximab	CD47 antibody	DLBCL				
Cobomarsen	miR-155 small molecule	CTCL	1		miRagen ³	
K-NK002	NK Cell Therapy	AML/MDS			Kiadis pharma 4	
Cusatuzumab + Azacitidine	CD70 antibody	MDS			argenx ^{₹5}	
Cusatuzumab + Ven + Aza	CD70 antibody	AML	1	argenx 55		
STRO-001	CD74 antibody drug conjugate	MM/DLBCL/ MCL/FL		SUTRO		
Mavorixafor + Ibrutinib	CXCR4 small molecule	Waldenström macroglobulinemia	<u> </u>	PHAMACEUTICALS	 	
SEL120	CDK8/19 small molecule	AML/MDS		RY∵U		
PVX-410 + ACY-241 +/- Len	XBP1/CD138/CS1 vaccine	Smoldering myeloma		OncoPep		
KO-539	Menin small molecule	MLL leukemia	!	ENCOLOGY	1	
NEXI-001	T Cell Therapy	AML		NexImmune		
NEXI-002	T Cell Therapy	Multiple myeloma	1 1	Neximmune	1	l I
BTX-A51	CK1-a/CDK7/CDK9 small molecule	AML/MDS		B ioTheryX		
PROTACs	IRAK4 & STAT3 small molecules	Lymphoma	KYMERA			
in vivo CAR	T Cell Therapy	Lymphoma	ABINTUS	[1 [

Jpdated December 20

TAP FUNDED ASSETS CREATE STRATEGIC VALUE

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



Kiadis-Sanofi transaction announced November 2, 2020



TAP PORTFOLIO COMPANY WITH ASSETS IN ACTIVE BLOOD CANCER TRIALS

SIGNIFICANT EQUITY FINANCING RAISED SINCE LLS TAP FUNDING

Equity since TAP Funding*	TAP Portfolio Company		
>\$1 Billion	argenx Epizyme		
>\$500 Million	Constellation Kura ² [Onconova]		
\$250-\$500 Million	Forty Seven ¹		
\$100-\$250 Million	Affimed Sutro miRagen ² X4 ² Curis Kymera ²		
\$50-\$100 Million	BioTheryx ² Ryvu WindMIL ²		
<\$50 Million	Neximmune ² OncoPep ²		





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:

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TAP SUCCESS STORIES



TAP SUCCESS: NOVEL LIPOSOMAL CYTOTOXIC THERAPY

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



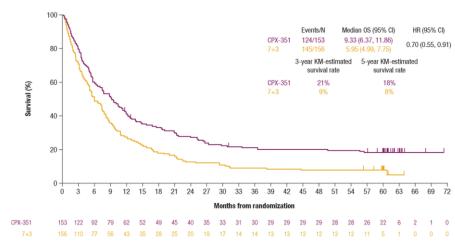


ACQUIRED BY JAZZ PHARMA FOR \$1.5 BILLION IN 2016

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



PAGE 19

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

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

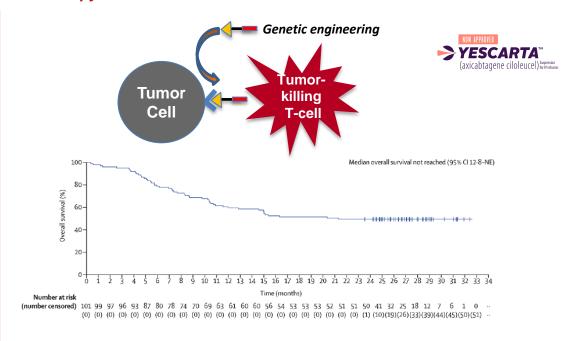


ACQUIRED BY GILEAD FOR \$11.9 BILLION IN 2017

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



TAP SUCCESS: NOVEL TARGETED CD123 FUSION PROTEIN

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

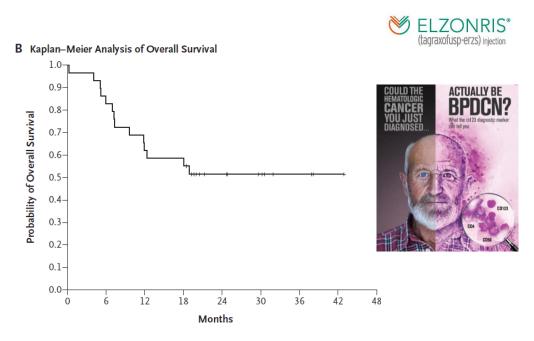


ACQUIRED BY MENARINI GROUP FOR \$677 MILLION IN 2020

LLS TAP PROVIDED:

\$2.9 MILLION NET ASSET FUNDING

ROI: \$5.8 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



TAP SUCCESS: MAGROLIMAB (ANTI-CD47 ANTIBODY)

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

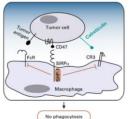


ACQUIRED BY GILEAD FOR \$4.9 BILLION IN 2020

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

1L MDS 1L AMI **Best Overall Response** N=33 N=25 16 (64%) ORR 30 (91%) 14 (42%) 10 (40%) 4 (16%) 1 (3%) 1 (4%) 8 (24%) MLFS/marrow CR 1 (4%) Hematologic 7 (21%) improvement (HI) 3 (9%) 8 (32% ents ner 2006 IWG MDS criteria and 2017 AMI ELN criteria Patients with at least 1 nost. treatment response assessment are shown; all other patients are on therapy and are too early for first respons MDS and AML Patients

In Bone Marcow Baseline

In Bone Marcow Baseline

Work of the Charles of t

Four patients not shown due to missing values; <5% blasts imputed as 2.5%. *Baseline bone marrow blasts <5%

- 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

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PRESENTED BY: DAVID A. SALLMAN, N

LEUKEMIA & LYMPHOMA SOCIETY*

TAP SUCCESS: KO-539 (MENIN INHIBITOR)

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



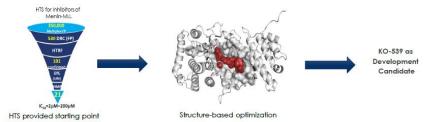
PRECLINICAL COMPOUNDS
RELATED TO KO-539 LICENSED
TO KURA ONCOLOGY IN 2015

LLS TAP PROVIDED:

\$6.31 MILLION ASSET FUNDING TO U MICHIGAN

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

KO-539 is a potent & selective menin-MLL inhibitor with robust activity in models of MLL-rearranged AML



Burrows et al. 2017. AACR poster

- 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
- KO-539 received orphan drug designation in July 2019; in ph1/2a trial for r/r AML with MLL fusions/NPM1 mutations (FPI in Sep 2019)



THERAPY ACCELERATION PROGRAM COMMITTEE

Casey Cunningham, MD (Chair) +

Santé Ventures

Giulio Draetta, MD, PhD

The University of Texas MD Anderson Cancer Center

Christoper Flowers, MD, MS, FASCO +

The University of Texas MD Anderson Cancer Center

Patrick Fortune, PhD, MBA

Partners Heathcare Systems

Laura Kaufman, PhD, DABT

Private Consultant

Ronald Levy, MD

Stanford University School of Medicine

Vern Norviel, Esq.

Wilson Sonsini Goodrich & Rosati

Robert Rosen, JD +

Grewhawke Capital Advisors

Steven Rosen, MD, FACP

City of Hope

Robert Spiegel, MD, FACP

Spiegel Consulting LLC

David Weinstock, MD

Dana-Farber Cancer Institute

+ National Board Member



THANK YOU!

LLS Research Grants and TAP



Lee Greenberger, PhD CSO & SVP Research



Michael Yaffe, PhD VP of Research



Erik Nelson, PhD Exec. Dir. Research



James Kasper, MS Sr. Dir. Research



Orsi Giricz, PhD Dir. Research



Lore Gruenbaum, PhD VP of TAP



Jun Xu, Ph.D. Exec. Dir. TAP



Exec. Dir. TAP



Blaine Robinson, PhD Javeed Froozan, MBA VP of BD & Alliance

