

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 \$1.5 billion in research and development worldwide since founded in 1949
- Helped advance more than 75% of FDA approved blood cancer treatments since 2017
- 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 >70 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

Goals:

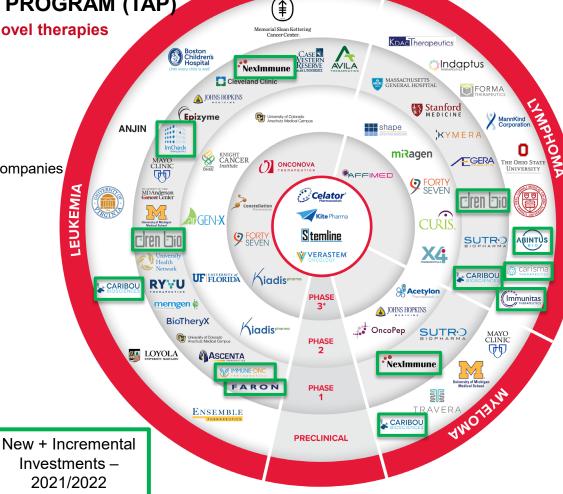
- Support LLS Mission to cure blood cancers
- FDA Approvals
- Assets in clinical development
- Strategic transactions & financing for portfolio companies
- Financial ROI to LLS

>\$130 Million invested to date

- Biotech: >\$95 Million
- Institutions: ~\$35 Million
- >70 financings of companies and assets
- >20 assets currently in active development

4 Approved Therapies to Benefit Patients

- Vyxeos (AML) FDA
- Yescarta (DLBCL, tFL, PMBCL) FDA
- Elzonris (BPDCN) FDA
- Copiktra (PTCL) NCCN



*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
- Scientific lead for over 20 TAP projects including Constellation, Kymera, Ryvu & most recently Abintus, Caribou, Immune-Onc, Immunitas & Dren
- 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, Faron & ImCheck

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

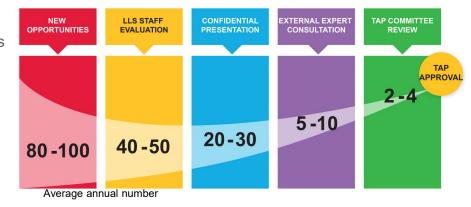


TAP GOALS & INVESTMENT STRATEGY

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





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 ACTIVELY COLLABORATES WITH PARTNER COMPANIES

Investment Side Letter & Research Advisory Committee

Key features of LLS TAP Investment Side Letter

- Cites LLS Mission focus and company's focus and assets in blood cancer
- Investment amount on same terms and conditions as other investors, and use of proceeds (less detail for public companies)
- Exclusion of fees on LLS proceeds to investment banks and other intermediaries (via waiver, decreased total load, or refund to company)
- Information & observer rights (private firms)
- Research Advisory Committee (RAC) structure for recurring meetings between TAP team and company to discuss corporate and program progress – Company retains control of program
- Company participation in LLS events, publication review, and evaluate providing research materials to PI's.

Side letter captures the mission-driven collaborative nature of the relationship between LLS TAP and the partner companies





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 ASSETS IN DEVELOPMENT

Therapy	Target/Modality	Indications	Preclinical	Phase 1	Phase 2	Phase 2 Reg / Phase 3	Regulatory Status
Magrolimab + Azacitidine	CD47 antibody	MDS	 	 		9 Forty Seven¹	
AFM13	CD30/CD16A bispecific engager	PTCL	 	1 1	1 1	AFFIMED	
Pelabresib + Ruxolitinib	BET small molecule	MPN	 	 	 	Constellation 2	
Magrolimab + Rituximab	CD47 antibody	DLBCL	I I	 	Seven Forty Seven	1	
Cusatuzumab + Azacitidine	CD70 antibody	AML	l I	 	argenx		
Ziftomenib	Menin small molecule	AML: NPM1 mutant & KMT2A rearranged	 	RURA ³	1	1	
STRO-001	CD74 antibody drug conjugate	NHL/MM	 	SUTRO BIOPHARMA	! [!	
Mavorixafor + Ibrutinib	CXCR4 small molecule	CXCR4 & MYD88 double mutant Waldenström's	 	X4	 	1	
IO-202	LILRB4 antibody	AML/CMML	l I	I IMMUNE-ONC	1 1	1	
RVU120	CDK8/19 small molecule	AML/MDS	 	RY∀U	! ! !		
ICT01	BTN3A antibody	heme malignancies		ImCheck theropeutics		1 1	
PVX-410 + ACY-241 +/- Len	XBP1/CD138/CS1 vaccine	Smoldering myeloma	 	OncoPep	 		
NEXI-001	T cell therapy	AML	 	NexImmune	 	1	
NEXI-002	T cell therapy	мм	 	NexImmune	! !	!	
BTX-1188	GSPT1 + IKZF1/3 degrader	AML/NHL	 	biotheryx			
CB-010	CD19/PD1 KO allogeneic CAR	NHL	I I	CARIBOU	I I	1	
KT-333	STAT3 degrader	PTCL/CTCL/LGL-L	 	KYMERA	 	1	
KT-413	IRAKIMiD degrader	MYD88 mutant DLBCL	I I	KYMERA	I I		
Bexmarilimab	Clever-1 antibody	AML/MDS	 	FARON	I I I	Orphan Drug D	esignation
IMT-009	CD161 antibody	NHL	Immunitas THERAPEUTICS	I I	I I	Fast Track Desi	
TBD	in vivo CAR-X	TBD	ABINTUS	I I I	I I	Breakthrough T	herapy Designation
TBD	CAR macrophage	TBD	Carisma	 	I I	1	_

TAP FUNDED ASSETS CREATE VALUE

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



Transactions >\$20 Billion



TAP PORTFOLIO COMPANY WITH ASSETS IN ACTIVE BLOOD CANCER DEVELOPMENT

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

Equity since TAP Funding*	TAP Portfolio Company
>\$1 Billion	argenx
>\$500 Million	Constellation/Morphosys¹ Kura² Kymera²
\$250-\$500 Million	Affimed Caribou ² Carisma ⁴ Forty Seven/Gilead ³ Sutro X4 ²
\$100-\$250 Million	BioTheryx ² ImCheck ² NexImmune ² Ryvu
\$50-\$100 Million	Immune-Onc² Immunitas²
<\$50 Million	Abintus² Faron² OncoPep²

Table incudes assets without a regulatory approval. *Updated as of October 15, 2022



^{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)

^{4:} LLS equity (09/2022 Merger with Sesen announced)



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)

CPX-351

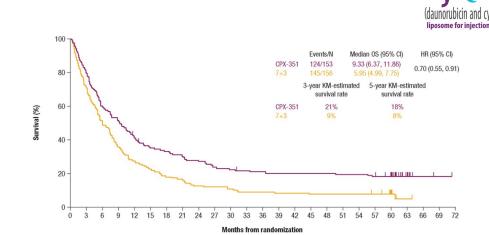


ACQUIRED BY JAZZ PHARMA FOR \$1.5 BILLION IN 2016

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



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

Yescarta® is the first FDA-approved CAR-T Therapy in NHL (2017)



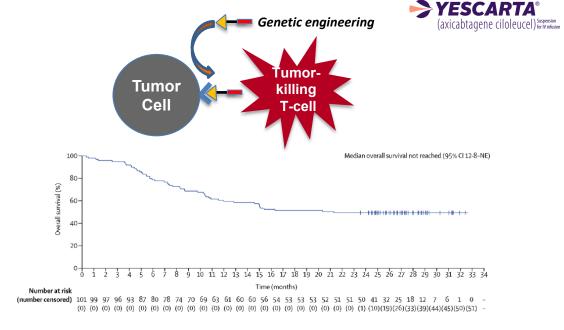


ACQUIRED BY GILEAD FOR \$11.9 BILLION IN 2017

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)

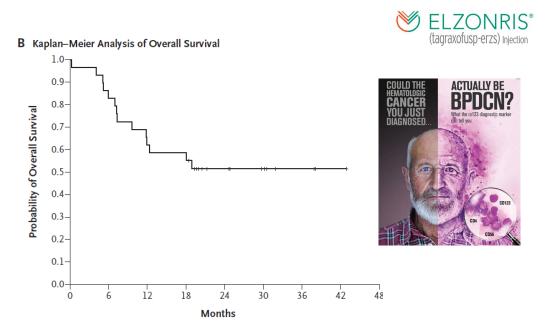


ACQUIRED BY MENARINI GROUP FOR \$677 MILLION IN 2020

LLS TAP PROVIDED:

\$2.9 MILLION NET ASSET FUNDING

ROI: \$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



TAP SUCCESS: DUVELISIB (DUAL PI3K INHIBITOR)

Copiktra® is the first dual PI3K inhibitor included in NCCN Guidelines for all subtypes of PTCL (2021)





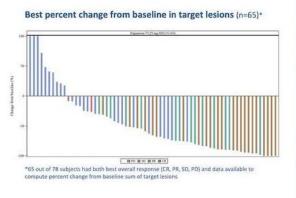
LICENSED TO SECURA BIO FOR UP TO \$311 MILLION IN 2020

LLS TAP PROVIDED:

\$1.485 MILLION ASSET FUNDING

ROI: TBD

Dose Expansion: Results





Number of patients dosed	78
Summary of responses, by IRC Number of Responders (Lugano Criteria), n (%) CR PR	39(50) 25(32.1) 14(17.9)
Duration of response in days Median (95% CI) Range	233 (90, NC) (1+, 420+)
Number of patients discontinued from treatment n, (%) Disease progression Death Transplant Adverse Event Other	64 (82.1) 34(43.6) 4(5.1) 5(6.4) 14(17.9) 7(8.9)
Median time to response, days (range)	53(15,114)
Number of patients continued on treatment n(%)	14(18)
Minimum follow up, months	6

Brammer et al., ASH 2021

"Patients with r/r PTCL usually relapse quickly and have limited treatment options, and the data from the PRIMO trial show very promising activity and even a remarkable number of complete responses. Importantly, these responses are better than current standard of care options" said Dr. Brammer.



TAP SUCCESS: MAGROLIMAB (ANTI-CD47 ANTIBODY)

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

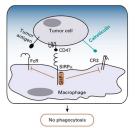


ACQUIRED BY GILEAD FOR \$4.9 BILLION IN 2020

LLS TAP PROVIDED:

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

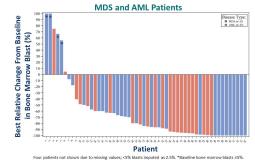
ROI: >\$40 MILLION



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

1L MDS 1L AML **Best Overall Response** N=33 N=25 ORR 30 (91%) 16 (64%) 14 (42%) 10 (40%) CRi 4 (16%) 1 (3%) 1 (4%) 8 (24%) MLFS/marrow CR 1 (4%) 4 with marrow CR + HI Hematologic 7 (21%) improvement (HI) 3 (9%) 8 (32% 1 (4%) nents ner 2006 IWG MDS criteria and 2017 AML ELN criteria. Patients with at least 1 post-

treatment response assessment are shown; all other patients are on therapy and are too early for first respons



- 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 USPI. 2. Fenaux P, et al. Loncet Oncol. 2009; 10(3):223-232.

PRESENTED AT: 2020 ASCO ANNUAL MEETING
ANNUAL MEE



TAP SUCCESS: KO-539 (MENIN INHIBITOR)

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



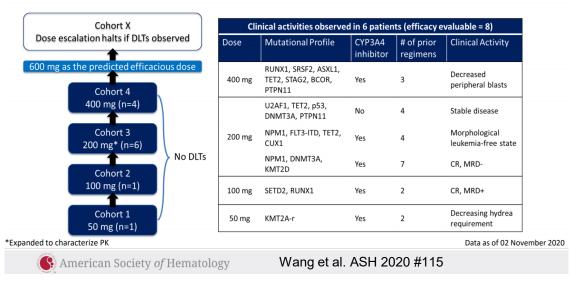
PRECLINICAL COMPOUNDS
RELATED TO KO-539 LICENSED
TO KURA ONCOLOGY IN 2015

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

24-Week

SVR35 Rate

First Novel Mechanism Beyond JAK Inhibitors to Demonstrate POC in 1L MF

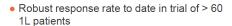


ACQUIRED BY MORPHOSYS FOR \$1.7 BILLION IN 2021

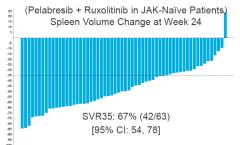
LLS TAP PROVIDED:

\$7.35 MILLION ASSET FUNDING

ROI: \$7.35 MILLION TO DATE



- Strong activity observed as a monotherapy and add on to ruxolitinib 2L+ patients
- Translational data and improvement in anemia supports disease-modifying potential
- Pelabresib has been generally well-tolerated to date
- Phase 3 trial (MANIFEST-2) under way







Data cutoff September 29, 2020 of MANIFEST trial SVR35 = ≥35% spleen volume reduction from baseline

Upfront combo with ruxolitinib

67% (42/63)

COMFORT-1*

41.9%

COMFORT-2**

32%

29%

SIMPLIFY-1***

^{**} 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.



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.

THERAPY ACCELERATION PROGRAM (TAP) ADVISORS

Committee

Casey Cunningham, MD (Chair) + Santé Ventures

Francie Heller +
Arabesque Asset Management

Jim Reddoch, PhD + Royalty Pharma

Robert Rosen, JD +
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THANK YOU!

LLS Research Grants and TAP



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James Kasper, MS Exec. Dir. Research



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Jun Xu, PhD Exec. Dir. TAP Lead



Exec. Dir. TAP



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