

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



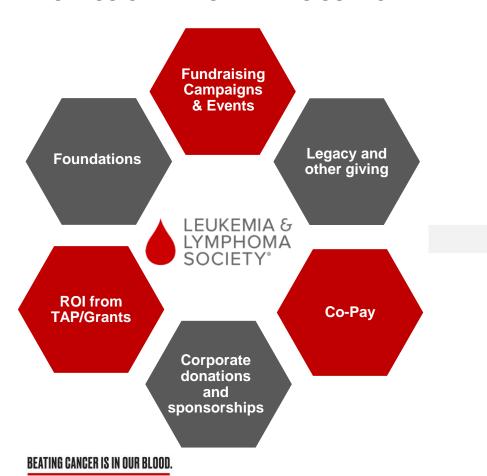
About 30 percent of blood cancer patients still do not survive five years after diagnosis



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 >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

>\$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

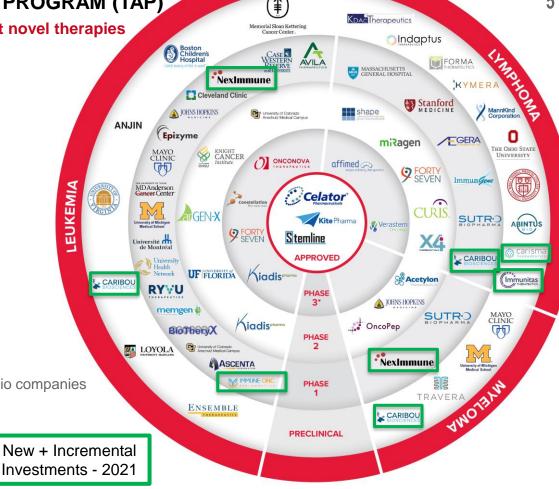
- Vyxeos (AML)
- Yescarta (DLBCL, tFL, PMBCL)
- Elzonris (BPDCN)

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.



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, 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

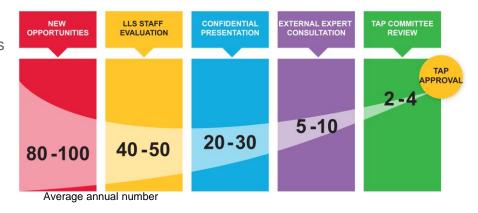


TAP GOALS & INVESTMENT STRATEGY

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





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.

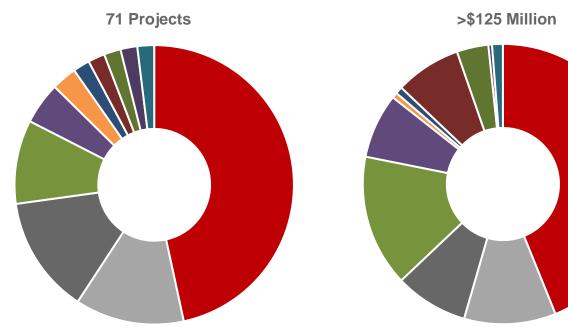


TAP PORTFOLIO THERAPEUTIC PLATFORMS FUNDED (2007-2021)

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



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





TAP PORTFOLIO INVESTMENTS IN ACUTE MYELOID LEUKEMIA (AML)

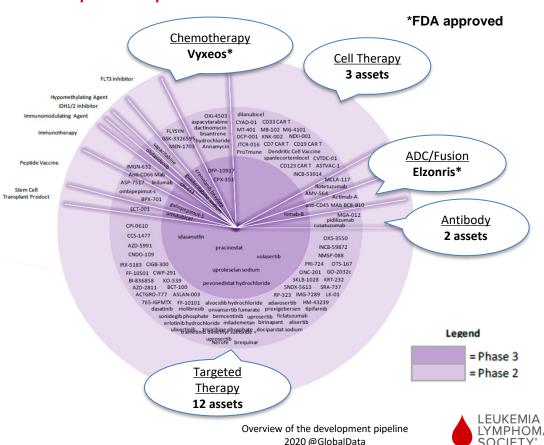
TAP team understands & successfully invests in complex therapeutic areas

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)



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 翠号
AFM13	CD30/CD16A bispecific engager	PTCL	 	I I	 	affi med	Ť
Pelabresib + Ruxolitinib	BET small molecule	MPN	1	! ! !	 	Constellati n 2	∱ = ₹
Duvelisib	PI3Kδ/γ small molecule	PTCL	1	I I	 	Verastem ³ Oncology	∱ = ≉
Magrolimab + Rituximab	CD47 antibody	DLBCL		 	Forty Seven¹ argenx		
Cusatuzumab + Azacitidine	CD70 antibody	AML	i I	I I	argenx		Ť
KO-539	Menin small molecule	AML	1	RURA4	 		Ť
STRO-001	CD74 antibody drug conjugate	NHL/MM		SUTRO	 	 	Ť (MM)
Mavorixafor + Ibrutinib	CXCR4 small molecule	Waldenström macroglobulinemia	1	PHARMACEUTICALS	 		Ť
RVU120	CDK8/19 small molecule	AML/MDS	1	RYVU THERAPEUTICS	 		Ť
PVX-410 + ACY-241 +/- Len	XBP1/CD138/CS1 vaccine	Smoldering myeloma	1	OncoPep		i i I I	Ť
NEXI-001 NEXI-002	T cell therapy	AML MM	1	NexImmune	 		
BTX-A51	CK1-α/CDK7/CDK9 small molecule	AML/MDS	1	B ioTheryX	 	1 !	
10-202	LILRB4 antibody	AML/CMML	1	IMMUNE-ONC]	Ť
CB-010	CD19/PD1 KO allogeneic CAR	NHL	1	CARIBOU BIOSCIENCES] 	
KT-413 KT-333	IRAKIMiD degrader STAT3 degrader	DLBCL Heme malignancies	KYMERA	I I	I	Orphan Drug Des	signation
IMT-009	CD161 antibody	NHL	Immunitas THERAPEUTICS	1 1 1	 	Fast Track Design	ŭ .
TBD	in vivo CAR	TBD	ABINTUS	i I	I	` رو ا	
TBD	CAR macrophage	TBD	carisma THERAPEUTICS	I I	I.	Breakthrough Th	erapy Designation

TAP FUNDED ASSETS CREATE VALUE

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

Kite Pharma FORTY SEVEN	GILEAD
Constellation PHARMACEUTICALS	morphosys
Celator	Jazz Pharmaceuticals
Stemline	MENARINI group
Kiadis	SANOFI
Acetylon Pharmaceuticals, inc Epizyme	Celgene
JOHNS HOPKINS	** WindMIL THERAPEUTICS
University of Michigan Medical School	€ KURA ONCOLOGY

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 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



TAP SUCCESS: NOVEL LIPOSOMAL CYTOTOXIC THERAPY

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



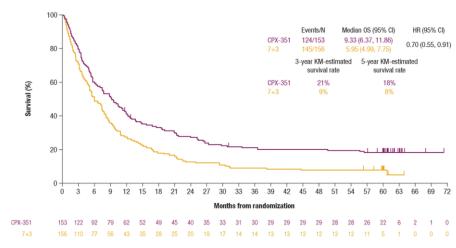


ACQUIRED BY JAZZ PHARMA FOR \$1.5 BILLION IN 2016

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

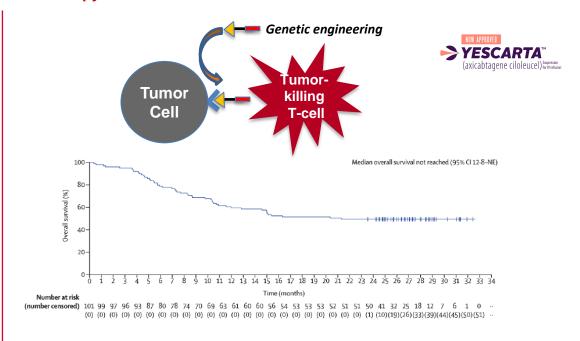


ACQUIRED BY GILEAD FOR \$11.9 BILLION IN 2017

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)

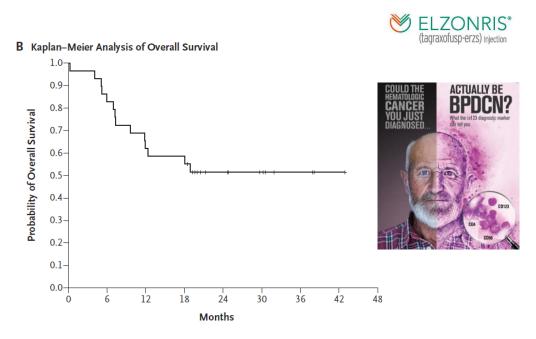


ACQUIRED BY MENARINI GROUP FOR \$677 MILLION IN 2020

LLS TAP PROVIDED:

\$2.9 MILLION NET ASSET FUNDING

ROI: \$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: MAGROLIMAB (ANTI-CD47 ANTIBODY)

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

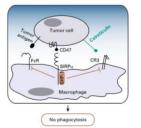


ACQUIRED BY GILEAD FOR \$4.9 BILLION IN 2020

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%

Response assessments per 2006 IWG MDS criteria and 2017 AML ELN criteria. Patients with at least 1 posttreatment response assessment are shown; all other patients are on therapy and are too early for first respons MDS and AML Patients

In Bone Marcow Blast (%)

Patient

Patient

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 ASCC ANNUAL MEETING

#ASCO20 Stides are the property of the author, permission required for resur.

PRESENTED BY: DAVID A. SALLMAN, N



TAP SUCCESS: KO-539 (MENIN INHIBITOR)

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



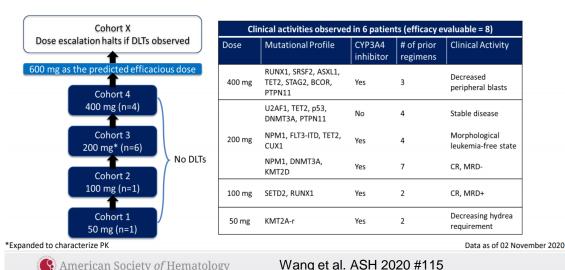
PRECLINICAL COMPOUNDS **RELATED TO KO-539 LICENSED TO KURA ONCOLOGY IN 2015**

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

American Society of Hematology

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

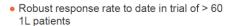


ACQUIRED BY MORPHOSYS FOR \$1.7 BILLION IN 2021

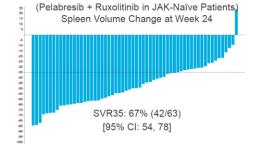
LLS TAP PROVIDED:

\$7.35 MILLION ASSET FUNDING

ROI: \$7.35 MILLION TO DATE



- 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





SIMPLIFY-1***

SVR35 = ≥35% soleen volume reduction from baseline

Data cutoff September 29, 2020 of MANIFEST trial



Upfront combo with ruxolitinib

67% (42/63)

COMFORT-1*

41.9%

COMFORT-2**

32% 29%

24-Week SVR35 Rate

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

^{**} 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.



^{*} 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 COMMITTEE

Casey Cunningham, MD (Chair) +

Santé Ventures

Stephen Ansell, MD, PhD Mayo Clinic Rochester

Madhav Dhodapkar, MBBS

Emory University

Courtney DiNardo, MD

The University of Texas MD Anderson Cancer Center

Giulio Draetta, MD, PhD

The University of Texas MD Anderson Cancer Center

Christopher Flowers, MD +

The University of Texas MD Anderson Cancer Center

Patrick Fortune, PhD, MBA Partners Heathcare Systems

Tapan Kadia, MD

The University of Texas MD Anderson Cancer Center

Laura Kaufman, PhD, DABT

Private Consultant

Ronald Levy, MD

Stanford University School of Medicine

Fred Locke, MD Moffitt Cancer Center

Ruben Mesa, MD +
UT Health San Antonio

Vern Norviel, JD

Wilson Sonsini Goodrich & Rosati

Daniel Pollyea, MD University of Colorado

Jim Reddoch, PhD Royalty Pharma

Robert Rosen, JD +
Grewhawke Capital Advisors

Steven Rosen, MD City of Hope

Robert Spiegel, MD Spiegel Consulting LLC

Keith Stewart, MDPrincess Margaret Cancer Centre

David Weinstock, MD
Dana-Farber Cancer Institute



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 Exec. Dir. Research



Orsi Giricz, PhD

Dir. Research



Lore Gruenbaum, PhD VP of TAP



Jun Xu, PhD Exec. Dir. TAP Lead



Blaine Robinson, PhD Javeed Froozan, MBA Exec. Dir. TAP VP of BD & Alliance

