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Leader in Targeted Protein Modulation

Targeted Protein Degraders for the Treatment of Hematologic Malignancies: Addressing the Mutational Resistance of BTK in the Clinic

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Protein Degradation & Targeting Undruggables Congress Europe Basel, Switzerland Sept 19, 2023

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Nurix Drugs Engage Ligases for the Treatment of Cancer Targeted Protein Modulation: TPM = TPD + TPE

> A Powerful Cellular System

Harness ligases to decrease specific protein levels

Targeted Protein Degradation (TPD)

Ubiquitin is ligated to target proteins to tag them for degradation by the proteasome Targeted Protein Elevation (TPE)

Inhibit ligases to increase specific protein levels

Nurix Is Advancing a Pipeline of Propriety and Partnered Programs in Oncology and Autoimmune/Inflammatory Diseases

MOA	Drug program	Target	Therapeutic area	Discovery	IND enabling	Phase 1a	Phase 1b
TPD	NX-2127	BTK-IKZF	B-cell malignancies				
TPD	NX-5948	BTK	B-cell malignancies				
TPE	NX-1607	CBL-B	Immuno-Oncology				
TPD	NX-0479 / GS-6791	IRAK4	Rheumatoid arthritis and other inflammatory diseases				🧭 GILEAD
ТРМ	5 programs	Undisclosed	Oncology / autoimmune disease				
TPD	4 programs	Undisclosed	Undisclosed				🚺 GILEAD
TPD	5 programs	Undisclosed	Undisclosed				sanofi
DAC	Multiple programs	Undisclosed	Oncology				ðSeagen

Advancing a New Therapeutic Class

Degrader-Antibody Conjugates (DACs)

- DACs combine the catalytic activity of a Targeted Protein Degrader (TPD) with the specificity of an antibody
- DACs represent the next generation of antibody drug conjugates (ADCs)



Deal Terms

- \$60 million upfront cash payment
- \$3.4 billion in potential research, development, regulatory and commercial milestone payments
- Mid-single to low double-digit tiered royalties on future product sales
- Option for U.S. profit sharing and copromotion on up to two products arising from the collaboration



DACs: Tumor-Specific Delivery of Potent Degraders The next generation of ADCs



- Degraders replace highly toxic ADC payloads
- DACs allow for selective delivery of degraders to tumor cells
- Degraders eliminate driver proteins essential for cancer cell growth and survival

Evolution of BTK Targeted Therapies



Nurix BTK Degraders: Two BTKs Degraders to Cover the Landscape of B-Cell Malignancies

B-Cell Malignancies Annual Incidence (US & EU)



BTK, Bruton tyrosine kinase; DLBCL, Diffuse large B cell lymphoma; CLL, Chronic lymphocytic leukemia, SLL, small lymphocytic lymphoma; MCL, Mantle cell lymphoma; WM, Waldenstrom's macroglobulinemia; MZL, Marginal zone lymphoma; FL, Follicular lymphoma; NHL, non-Hodgkin lymphoma

Estimates based on 2020 incidence from DRG, GlobalData and secondary research; EU comprised of France, Germany, Italy, Spain and UK

B-cell Malignancies Respond to BTK inhibitors, But Patients Eventually Progress as a Consequence of Inhibitor Resistance



Modified from Kater et al., NEJM 2023 and Nakhoda et al., Br. J. Haematol. 2023

- BTK is a nonreceptor tyrosine kinase and plays a crucial role in the B-cell receptor (BCR) signaling pathway
- Inhibition of BTK enzymatic activity has been established as an effective therapeutic strategy
- All patients eventually progress, and majority carry mutations in *BTK*C481 when treated with ibrutinib; ~53-87% of patients. Rates are similar for acalabrutinib; 69% of patients

Treatment-Emergent Resistance to Inhibitors Is Evolving: Noncovalent BTK inhibitor Resistance Shows Broader Mutation Profile



10 Wang, Mi, Thompson, et al. NEJM 2022

Inhibitor-Induced BTK Mutations Abrogate Phosphorylation Yet Propagate Downstream BCR Signaling: *Mutant BTK is 'Undruggable'*



Enzymatic and Structural Studies of BTKi-Resistant Mutations Confirm BTK Scaffolding Function

Some mutations that confer resistance to BTK lack kinase activity yet still potentiate BCR signaling

Mutations revealed by non-covalent inhibitors interrupt the catalytic C-spine of kinase domain





BTK Degraders Offer an Approach to Better Control BCR Signaling

Scaffolding Function of BTK was Previously Unrecognized as a Signaling Driver Degraders Have the Potential to Eliminate Both the Enzymatic and Scaffolding Function of BTK Degraders May be More Effective for Treating BCR-signaling Driven Disease



Removal of BTK disrupts the signaling complex, effectively destroying the scaffolding function of the protein

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NX-5948 is a Potent and Selective Degrader of BTK

Targeted Degradation of Bruton's Tyrosine Kinase Can Address BTKi Resistance



NX-2127 Dual Mechanism of Action

Targeted Degradation of BTK and IKZF1/3 Provides Both Intrinsic and Extrinsic Anti-Tumor Cell Activities



Nurix BTK Degraders Were Designed for Potent and Rapid Degradation of Wildtype and C481S-Mutant BTK

- NX-5948 degrades WT and mutant forms of BTK with sub-nanomolar potency in ABC DLBCL TMD8 cells
- BTK degradation is observed within 1 hour and is complete within 2 hours in Ramos cells



TMD8 cells harboring WT BTK or a knock-in BTK mutation (C481S) were incubated with NX-5948 for 24 hours, and BTK degradation was assessed by flow cytometry. Ramos human Burkitt's lymphoma B cells incubated with 10 nM NX-5948 and assessed by western blot

NX-2127 Demonstrates Binding to Recurrent Acquired Resistant BTK **Mutant Variants**

BTK Protein	Binding of NX-2127 Determined by SPR	Binding Determined by FRET Displacement Assay IC_{50} (nM)		120- 100- Eg 80- NX-2127	
	K _d (nM)	NX-2127	Pirtobrutinib	Ibrutinib	
WT	18	10	0.76	1.4	
C481S	45	22	0.77	6.2	-20
T474I	18	8.6	12	1.8	Pirtobrutinib 🔶 втк w
M437R	44	23	30	0.28	
V416L	97	165	98	3.8	E 80− E 80− E 60− E 80− E BTK V4 → BTK V4 → BTK V4
L528W	88	70	>1000	>1000	40− 92 20− 20−
*IO datarmain	ad at 60 min far Ibrutinik				

*IC₅₀ determined at 60 min for Ibrutinib

IC₅₀s reported here are mean of at least 3 experiments

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unpublished data

0,0001

0.0001

0.

0.01

0.001

NX-2127

0

N

NX-2127 Degrades Both Wild-Type and Kinase Dead BTK and Suppresses Ca⁺⁺ Signaling



NX-2127 Is Potent and More Broadly Active Than All BTK Inhibitors Tested





TMD8 tumor cell killing

- All inhibitors have resistance mutation liabilities
- NX-2127 displays potent cell killing and maintains suppression of CD86 in the context of key resistance mutations

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NX-5948 Is More Potent and Broadly Active Than All BTK Inhibitors Tested



Nurix BTK Degraders Form Stable Ternary Complexes Between BTK and CRBN Irrespective of Mutation Status



CRBN, cereblon; DDB1, DNA damage binding protein 1.

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Not All BTK Degraders Are Created Equal



The ability of NX-5948 and NX-2127 to induce TMD8 tumor-cell killing was compared to other reported degraders in a 72-hour viability assay

[1] Example 1, WO 2022/111449 (Haisco)
[2] Example 10, WO 2021/219070 (BeiGene)
[3] Buhimschi et al. 2018. Biochemistry 57(26): 3564-3575.

TMD8 cells with knock-in mutations 72 hr time point, 5000 nM top concentration Average of $n \ge 4$ independent experiments

Targeted Protein Degraders Can Display Exquisite Selectivity Global Proteomics Analysis in Human PBMCs or TMD8 DLBCL Cells



c-FLIP is an anti-apoptotic protein required to maintain survival of ABC DLBCL cells that is regulated by the BCR/NF-κB signaling axis. BTK inhibition by ibrutinib also downregulates c-FLIP in TMD8 cells (*Nagel; Onco Target; 2015*) c-FLIP reduction is believed to be a secondary effect of BCR/BTK signaling loss.

Degradation of BTK by NX-5948 Correlates with Significant Tumor Growth Inhibition



Treatment	Oral gavage dose (mg/kg)	% BTK degradation in circulating B cells	% BTK degradation in TMD8 tumor tissue	% TGI vs Vehicle (Day 26)	<i>P</i> value vs Vehicle
Vehicle	0	0.0±3.7	0.0±4.7	N/A	N/A
	3	50.5±1.9	69.2±0.9	54%	0.0025
NX-5948	10	63.5±1.1	82.4±2.1	100%	<0.0001
	30	79.0±3.1	90.5±0.5	100%	<0.0001
Ibrutinib	30	N/A	N/A	57%	0.0015

nurix Rountree et al., TPD 2022

N/A: Not applicable; TGI: tumor growth inhibition.

P values determined on tumor volume by mixed-effect analysis with Dunnett's multiple comparisons test

NX-5948-301: Trial Design

Phase 1 trial in adults with relapsed/refractory B-cell malignancies



- Phase 1a dose escalation is ongoing at clinical sites in the U.S. and U.K.
- Anticipate initiating expansion cohort(s) in H2 2023

BTK, Bruton tyrosine kinase; CLL, chronic lymphocytic leukemia; DLBCL, diffuse large B-cell lymphoma; FL, follicular lymphoma; MCL, mantle cell lymphoma; MZL, marginal zone lymphoma; PCNSL, primary CNS lymphoma; PD, pharmacodynamics; PK, pharmacokinetics; WM, Waldenstrom's macroglobulinemia

Preliminary Data Suggest that NX-5948 Exhibits Dose Proportional Pharmacokinetics

Mean (± SEM) Cycle 1 Day 1 pharmacokinetic profile of patients treated with NX-5948





	Cycle 1, Day 1				
Dose	C _{max} (ng/mL)	AUC _{0–last} (h*ng/mL)	T _{max} (hours)	t _{1/2} * (hours)	
50 mg n=4	4.52 (102)	42.1 (152)	3.0	12.8 (19.9)	
100 mg n=3	12.3 (45.3)	99.6 (50.2)	2.0	12.4 (9.39)	

 C_{max} and AUC_{0-last} are presented as geometric mean (geometric %CV); T_{max} is presented as median; $t_{1/2}$ is presented as mean (%CV); *AUC extrapolation >20%

- The half life of ~12.6 hours supports once daily dosing.
- The T_{max} of 2–3 hours suggests fast absorption.
- Exposures (both AUC and C_{max}) increase linearly with dose.

NX-5948 Resulted in Rapid, Robust and Sustained BTK Degradation in all Patients Dosed

• NX-5948 induced sustained BTK degradation of 89±4% at Cycle 2 Day 1 across dose levels



FL (follicular lymphoma), DLBCL (diffuse large B cell lymphoma), MCL (mantle cell lymphoma), MZL (marginal zone lymphoma)

NX-2127-001: Trial Design

Phase 1 trial in adults with relapsed/refractory B-cell malignancies



- CLL Phase 1b expansion cohort ongoing at 100 mg dose
- DLBCL Phase 1b expansion cohort ongoing at 300 mg
- MCL Phase 1b expansion cohort ongoing at 300 mg
- Phase 1a dose escalation is ongoing at 200 mg and 300 mg doses for patients with NHL

BTK, Bruton tyrosine kinase; CLL, chronic lymphocytic leukemia; DLBCL, diffuse large B-cell lymphoma; FL, follicular lymphoma; MCL, mantle cell lymphoma; MZL, marginal zone lymphoma; NHL, non-Hodgkin lymphoma; PCNSL, primary CNS lymphoma; PD, pharmacodynamics; PK, pharmacokinetics; WM, Waldenstrom's macroglobulinemia

NX-2127 Leads to Robust BTK Degradation and Decrease in B-cell Activation



- --- Plasma trough concentration (n=14)
- Daily treatment with NX-2127 resulted in a rapid and sustained suppression of BTK (CD19+) as measured in patient whole blood using a flow cytometry assay. BTK suppression target of 80% reached consistently (data not shown here)
- Robust decrease of plasma CCL4 by Cycle 1 Day 8 and suppression was maintained through Cycle 2 Day 1, consistent with clinically observed lymphocytosis occurring in majority of patients with nodal disease by Cycle 1 Day 8
- NX-2127 treatment also resulted in degradation of cereblon neo-substrate lkaros

First Demonstration of Clinical Activity of a Degrader Against a Range of BTK Mutations

NX-2127 Preliminary Efficacy in Patients with CLL

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 BTK degradation of 80% achieved in CLL patients including those harboring BTK C481, T474, L528, and V416 resistance mutations
 Montova. Dec. 20

Montoya, Dec. 2022 ASH

Mechanistic Rationale for Dual Degrader in DLBCL

CLINICAL TRIALS AND OBSERVATIONS

Comment on Goy et al, page 1024

Ibrutinib and lenalidomide: when 1+1 = >2

Jason Westin | MD Anderson Cancer Center

Hyper-activated BCR (CD79b-mut) and TLR (MyD88-mut) signaling are hallmarks of non-GCB DLBCL:

- NX-2127 targets both BCR and TLR signaling through BTK degradation
- NX-2127 targets non-BTK dependent TLR signaling through its immunomodulatory activity



Rapid and Sustained Complete Response on Single-Agent NX-2127

FDG-PET CT Scan Disease Assessment

Baseline



Deauville score: 5

Confirmatory Week 16 Scan



Deauville score: 2

- 84-year-old woman with multiply relapsed ABC-DLBCL following 4 lines of aggressive therapy (including combination of rituximab, ibrutinib, and lenalidomide).
- Complete response at first assessment (week 8), confirmed at week 16, and ongoing through week 24.
- As of June 14, 2023, this patient remains on treatment with over 12 months of follow up

Targeted Protein Degradation Holds Promise For Treating Cancer

	Ligase Complex
Emergent BTKi-Resistant Mutations	The use of BTK inhibition for treating B-cell malignancies has led to the development of acquired mutations that confer resistance to both covalent and noncovalent BTK inhibitors
Scaffolding Functions of BTK	 Multiple mutant variants of BTK are kinase-dead but retain the ability to propagate BCR signaling in TMD8 cells Scaffolding functions of BTK in oncogenic setting can pose additional challenges for the application of BTK inhibitors
Targeted BTK Degraders as "Next-Generation" Therapeutics	 Unlike an inhibitor, a degrader can address both the enzymatic and scaffolding functions of a protein Degraders that display positive cooperativity are more resilient to resistance mutations Nurix's BTK degraders, NX-2127 and NX-5948, are potent against known and novel clinically relevant BTK inhibitor resistance mutations





NX-2127 safety summary (TEAEs >15% in all patients)

Treatment-emergent AEs occurring in >15% of total population, n (%)	Any grade (N=36)	Grade 3+ (N=36)	SAE (N=36)
Fatigue	19 (52.8)	_	-
Neutropenia ^a	14 (38.9)	13 (36.1)	-
Contusion ^b	10 (27.8)	-	1 (2.8)
Thrombocytopenia ^c	9 (25)	3 (8.3)	-
Anemia	8 (22.2)	4 (11.1)	1 (2.8)
Hypertension	9 (25.0)	1 (2.8)	-
Constipation	7 (19.4)	_	-
Dyspnea	7 (19.4)	1 (2.8)	-
Pruritis	7 (19.4)	-	-
Atrial fibrillation/Atrial flutterd	6 (16.7)	3 (8.3)	2 (5.6)
Diarrhea	6 (16.7)	-	-
Petechiae	6 (16.7)	-	-
Rash	6 (16.7)	_	-

^aAggregate of "neutropenia" and "neutrophil count decreased" ^bContusion includes episodes of bruising and other similar terms ^cAggregate of "thrombocytopenia" and "platelet count decreased" ^dCases were confounded by risk factors such as: age >80 years (4 cases), history of hypertension (4 cases), male sex (3 cases), and history of prior AF on ibrutinib

1 DLT of cognitive disturbance was observed at 300 mg (CLL); MTD not reached

NALEXadverse event; SAE, serious adverse event; TEAE, treatment-emergent adverse event

NX-2127 safety summary (all participants) by dose

AEs: all grades, n (%)	All doses (n=36)	100 mg* (n=22)	200 mg (n=8)	300 mg (n=6)
Fatigue	19 (53)	13 (59)	5 (63)	1 (17)
Neutropeniaª	14 (39)	5 (23)	5 (63)	4 (67)
Contusion ^b	10 (28)	4 (18)	3 (38)	3 (50)
Thrombocytopenia ^c	9 (25)	5 (23)	2 (25)	2 (33)
Hypertension	9 (25)	5 (23)	2 (25)	2 (33)
Anemia	8 (22)	6 (27)	2 (25)	0
Constipation	7 (19)	7 (32)	0	0
Dyspnea	7 (19)	4 (18)	3 (38)	0
Pruritis	7 (19)	5 (23)	1 (13)	1 (17)
Atrial fibrillation/Atrial flutterd	6 (17)	3 (14)	2 (25)	1 (17)
Diarrhea	6 (17)	5 (23)	1 (13)	0
Petechiae	6 (17)	4 (18)	1 (13)	1 (17)
Rash	6 (17)	5 (23)	1 (13)	0

^aAggregate of "neutropenia" and "neutrophil count decreased" ^b Includes episodes of bruising and other similar verbatim terms ^cAggregate of "thrombocytopenia" and "platelet count decreased" ^dCases were confounded by risk factors such as: age >80 years (4 cases), history of hypertension (4 cases), male sex (3 cases), and history of prior AF on ibrutinib (2 cases) **Null X** of the 22 patients treated at the 100 mg qd dose had CLL Data cutoff: September 21, 2022 36

BTK Degradation of 80%+ Drives Potent Anti-tumor Activity in Preclinical Models

Ikaros and Aiolos degradation also achieve target range at therapeutic doses



Oral dose of NX-2127 (mg/kg)	10	30	90
% BTK degradation in peripheral B cells	69%	80%	91%
% Aiolos degradation in tumor tissue	21%	33%	64%
% Ikaros degradation in tumor tissue	28%	23%	47%
% Tumor growth inhibition vs Vehicle (Day 24)	58%	74%	100%

Aiolos (IKZF3) Overexpression Drives BTK Inhibitor Resistance in CLL, a Rationale for a Combination Strategy



Cancer Cell

Article

A hotspot mutation in transcription factor *IKZF3* drives B cell neoplasia via transcriptional dysregulation

"Our results thus highlight IKZF3 oncogenic function in CLL via transcriptional dysregulation and demonstrate that this pro-survival function can be achieved by either somatic mutation or overexpression of this CLL driver. This emphasizes the need for combinatorial approaches to overcome IKZF3-mediated BCR inhibitor resistance."

Source: Lazarian et al; Cancer Cell 39, 380–393, March 8, 2021

Non-GCB DLBCL Represents an Important Unmet Medical Need

- DLBCL is the most common form of lymphoma, representing ~30% of all NHL diagnoses^{1,2}
- ~24,000 people diagnosed in the United States each year, with ~60% 5-year survival^{1,2,3}



¹American Cancer Society. Cancer Facts & Figures 2022. Atlanta, Ga: American Cancer Society; 2022. <u>https://www.cancer.org/cancer/non-hodgkin-lymphoma/about/key-statistics.ntml#references</u> ²NCCN, B-Cell Lymphomas; April 2021 <u>https://www.nccn.org/professionals/physician_gls/pdf/b-cell.pdf</u>; ³<u>https://seer.cancer.gov/statfacts/html/dlbcl.html</u> ⁴Mareschal et al. Hematologica 2011;96:1888–90; ⁵Schmitz et al. N Engl J Med 2018;378:1396–407

A First-In-Class Franchise of BTK Degraders: NX-5948 & NX-2127 – The Big Picture

NX-5948 SELECTIVE BTK DEGRADATION

NX-2127 BTK DEGRADATION & IMMUNOMODULATION



BTK degraders have the potential to displace inhibitors in the markets where BTK inhibitors currently dominate (e.g., CLL)

Nurix has demonstrated that BTK degraders can overcome treatment emergent resistance mutations to both covalent and non-covalent inhibitors

BTK degraders may expand the market for BTK targeted agents into other B-cell malignancies such as DLBCL and potentially into autoimmune diseases

NX-5948 and NX-2127 are two distinct drugs with differentiated profiles, each with the potential to be multi-billion dollar B-cell malignancy therapeutic franchises

Phase 2 Smart Start: Ibrutinib, Lenalidomide, and Rituxan + Chemo in Newly Diagnosed Non-GCB DLBCL



Smart Start: Rituximab, Lenalidomide, and Ibrutinib in Patients With Newly Diagnosed Large B-Cell Lymphoma

"The combination of RLI alone and with chemotherapy resulted in high response rates and promising survival outcomes in patients with newly diagnosed DLBCL."

"Smart Start resulted in PFS and OS rates at 2 years, of 91.3% and 96.6%, respectively. R-CHOP with and without ibrutinib resulted in a 3-year PFS rates of 70.8% and 68.1%, respectively. R-CHOP with and without lenalidomide resulted in a 2-year PFS rates of 67% and 64%, respectively."

Source: Westin et al; Journal of Clinical Oncology, published online August 11, 2022