UNITED STATES SECURITIES AND EXCHANGE COMMISSION

WASHINGTON, D.C. 20549

FORM 8-K

CURRENT REPORT Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

Date of Report (Date of earliest event reported): March 13, 2023

Acrivon Therapeutics, Inc. (Exact name of registrant as specified in its charter)

Delaware (State or Other Jurisdiction of Incorporation)

001-41551 (Commission File Number)

82-5125532 (IRS Employer Identification No.)

480 Arsenal Way, Suite 100 Watertown, Massachusetts (Address of Principal Executive Offices)

02472 (Zip Code)

(617) 207-8979 (Registrant's Telephone Number, Including Area Code)

Not Applicable (Former Name or Former Address, if Changed Since Last Report)

	appropriate box below if the Form 8-K filing is in provisions (see General Instructions A.2. below):	3 3	ling obligation of the registrant under any of the		
	Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)				
	Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)				
	Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))				
	Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))				
Securities registered pursuant to Section 12(b) of the Act:					
		Trading	Name of each exchange		
	Title of each class	Symbol(s)	on which registered		
Co	ommon Stock, \$0.001 par value	Symbol(s) ACRV	The Nasdaq Stock Market LLC		
Indicate by	ommon Stock, \$0.001 par value	ACRV ag growth company as defined in Rule 4			
Indicate by chapter) or	ommon Stock, \$0.001 par value check mark whether the registrant is an emergin	ACRV ag growth company as defined in Rule 4	The Nasdaq Stock Market LLC		

Item 2.02 Results of Operations and Financial Condition

As discussed below, in connection with its participation in the Oppenheimer 33rd Annual Healthcare Conference taking place virtually, Acrivon Therapeutics, Inc. (the "Company") updated its corporate presentation to include disclosure that the Company had \$169.6 million of cash and marketable securities as of December 31, 2022.

Because the Company's consolidated financial statements for the year ended December 31, 2022 have not been finalized or audited, the preliminary statement of the Company's cash and marketable securities as of December 31, 2022 in this Item 2.02 is subject to change, and the Company's actual cash and marketable securities as of December 31, 2022 may differ materially from this preliminary estimate. Accordingly, you should not place undue reliance on this preliminary estimate.

Item 7.01 Regulation FD Disclosure

Beginning on March 13, 2023, the Company will participate in the Oppenheimer 33rd Annual Healthcare Conference taking place virtually. The Company has updated its corporate presentation that it intends to use in connection with its presentation on Monday, March 13, 2023 at 3:20 PM Eastern Time and in meetings with investors. The presentation includes, among other things, an update regarding the Company's clinical progress, disclosure regarding the Company's cash and marketable securities as of December 31, 2022 and confirmation of its projected cash runway into at least the fourth quarter of 2024.

A copy of the Company's corporate presentation is attached hereto as Exhibit 99.1 and is hereby incorporated by reference herein.

The information furnished under Item 2.02 and Item 7.01 of this Current Report on Form 8-K, including Exhibit 99.1, is being furnished and shall not be deemed to be "filed" for the purposes of Section 18 of the Securities Exchange Act of 1934, as amended (the "Exchange Act"), or incorporated by reference in any filing under the Securities Act of 1933, as amended, or the Exchange Act, except as shall be expressly set forth by specific reference in such a filing.

Item 9.01 Financial Statements and Exhibits.

(d) Exhibits:

Exhibit Number Exhibit Description

99.1 <u>Acrivon Therapeutics, Inc. Presentation</u>

104 Cover Page Interactive Data File (formatted as Inline XBRL).

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

Dated: March 13, 2023

Acrivon Therapeutics, Inc.

By: /s/ Peter Blume-Jensen

Name: Peter Blume-Jensen, M.D., Ph.D.
Title: Chief Executive Officer and President



ACRIVON PREDICTIVE PRECISION PROTEOMICS (AP3):

DRUG-TAILORED PATIENT SELECTION FOR CLINICAL SUCCESS

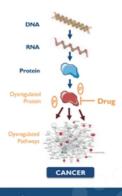
MARCH, 2023

ACRIVON THERAPEUTICS: DRUG-TAILORED PATIENT SELECTION

AIMING TO OVERCOME THE KEY ATTRITION FACTOR PREVENTING CLINICALLY ACTIVE DRUGS FROM REACHING MARKET

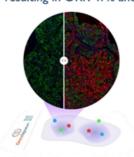
AP3 Platform

- Acrivon's proprietary proteomics-based predictive precision medicine platform
- Applied where NGS/genetics is insufficient and for our internal pipeline



OncoSignature®

- Our proprietary predictive drug-tailored biopsy test
- Extensively evaluated in prospective preclinical studies, including prediction on blinded pretreatment tumor biopsies from past trials resulting in ORR 47% and 58%



ACR-368 (Prexasertib)

- Clinically active (15-20% ORR) Phase 2 DNA Damage Response (DDR) inhibitor licensed from Eli Lilly & Co.
- Now being developed with OncoSignature patient selection for increased ORR with registrational intent



Pipeline

- Two co-crystallography- and AP3-driven preclinical programs targeting WEEI and PKMYTI, proximal and redundant DDR nodes
- Single digit nM inhibitors, wholly-owned, opportunity for AP3 patient selection and pipeline combinations





ACCOMPLISHED LEADERSHIP TEAM



Peter Blume-Jensen, M.D., Ph.D. CEO, Founder

- Executive Serono, Merck & Co., Daiichi Sankyo
- CSO Metamark Marketed
- prostate proteomic test ProMark®
 Inventor AP3 pt. selection platform



Rasmus Holm-Jorgensen Chief Financial Officer

- Novo Nordisk Finance and IR
- Synageva pipeline expansion and \$9bn sale to Alexion
- Kiniksa founding team, IPO and commercial launch



Erick Gamelin, M.D., Ph.D. Chief Medical Officer

- · Professor, CEO, large national cancer center and hospital
- Executive Amgen, Pfizer, Dynavax, MacroGenics; CMO STEP Pharma
- Led >100 ph 1-3 oncology trials



Eric Devroe, Ph.D. Chief Operating Officer

- Founder and CEO, Opsonix
- Business executive MD Anderson Cancer Center and Metamark
- EIR Wyss Institute, Harvard
- Associate, Flagship Pioneering



Kristina Masson, Ph.D. Co-Founder, CEO, Acrivon AB **EVP Business Operations**

- Cross-functional Leadership Merrimack Pharmaceuticals, MIT/BROAD
- Founder and CEO, OncoSignature AB (acquired by Acrivon Therapeutics)



John van Duzer, Ph.D. VP, CMC

- VP/SVP Acetylon, Collegium, Eloxx, Mersana, ActivBiotics
- Inventor of HDACi's Ricolinostat and Citarinostat and COX2i Lumiracoxib



Jeremy Barton, M.D., M.R.C.P. Chief Medical Advisor

- CMO Mirati Therapeutics, Biogen-Idec, Effector
- Head Early Oncology Drug Development Pfizer •



David Proia, Ph.D. VP, Drug Discovery and Biology

- VP, Rome Therapeutics, C4 Therapeutics
- Previously Synta, Astra-Zeneca, Boston Biotech Multiple recognition awards



Joon Jung, Ph.D. VP, Head, Data Science

- VP/Head, Theonys, Inc. Cyclerion/Ironwood
- Previously Merck & Co., [&], Triad Therapeutics
- Multiple recognition awards



Katie Peterson, C.P.A VP, Finance and Accounting

- Head, Financial Planning and Analysis Wave Life Sciences, Spero Therapeutics, and Merrimack Pharmaceuticals
- Audit Manager, CPA Ernst & Young LLP



Michail (Misha) Shipitsin, Ph.D. VP. Biomarker Development

- Head clin. biomarkers, Metamark
- Scientific lead on marketed, prostate test, ProMark®
- Expert digital imaging & clinical
- protein biomarker tests













































ACRIVON THERAPEUTICS AT A GLANCE

Development Site (Boston)

- · Drug and clinical biomarker assay development
- · Clinical trials
- Market access pending approval

OUR HQ IS LOCATED IN BOSTON -ACCESS TO LEADING DRUG DISCOVERY, BIOTECH, AND PHARMA







- Early pipeline drug programs
 BM identification and drug profiling

Precision-Proteomics Site (Lund/Copenhagen)

Mass spectrometry

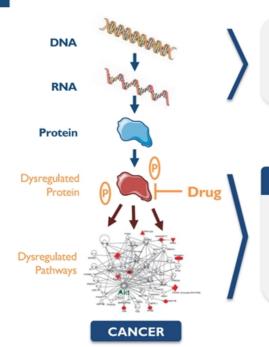




Acrivon was founded in early 2018 and is backed by top-tier investors



ACRIVON PREDICTIVE PRECISION PROTEOMICS, AP3



Genomic Biomarkers are useful for patient selection in the smaller subset of cancers (<10%) with single gene driver mutations or known synthetic lethal context*

CANCER IS CAUSED BY DYSREGULATED PROTEIN ACTIVITY

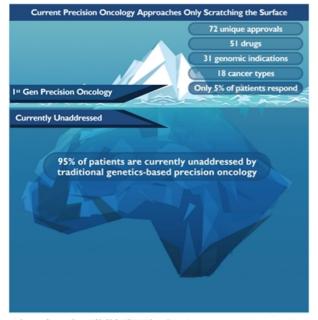
Proteomic Biomarkers directly measure the disease-driving, dysregulated proteins and enable an exact match with the drug mechanism-of-action independent of genetic alterations

(Acrivon meaning: "Exact, Accurate")

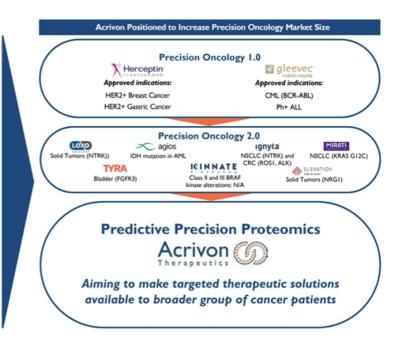
*Oncogenic Kinase Signaling: Blume-Jensen, P. and Hunter, T. Nature (2001) Synthetic lethality as an engine for cancer drug target discovery: Huang, A. et al. NatRevDrugDisc (2020)



AP3 PLATFORM ADDRESSES HIGH UNMET NEED BEYOND NGS-BASED PRECISION MEDICINE

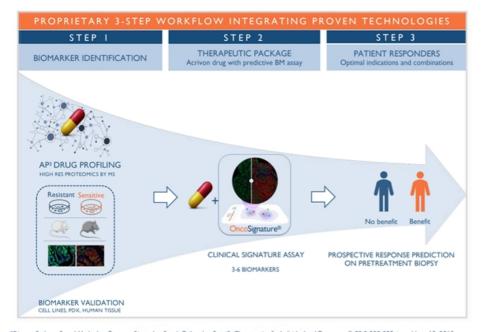


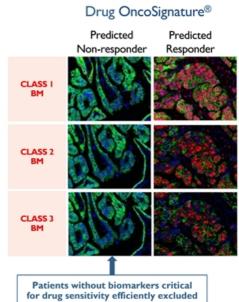
Sources: Company Filings, ACS, CDC, NCI, Wall Street Research



ACRIVON THERAPEUTICS (III)

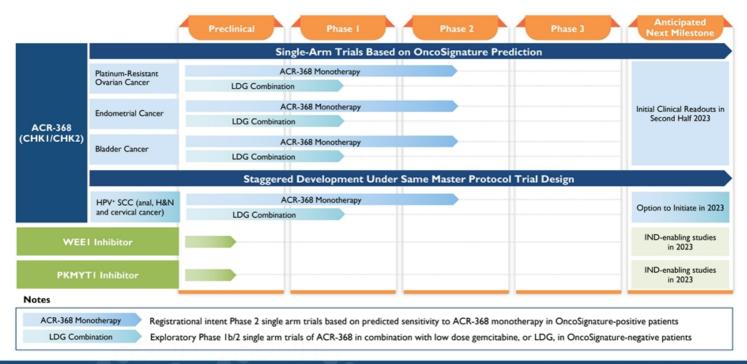
AP3 PLATFORM: DRUG RESPONSE PREDICTION IN INDIVIDUAL PATIENTS





"Disease Pathway-Based Method to Generate Biomarker Panels Tailored to Specific Therapeutics for Individualized Treatments": EP 2 229 589, issued June 10, 2015; US2017/0067877A9, pending. OncoSignature* is a Registered Trademark: US Reg. No. 5,718,472; Intl. Cl. 5, 42. Intl. Reg. 1382289

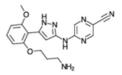
ACRIVON PIPELINE



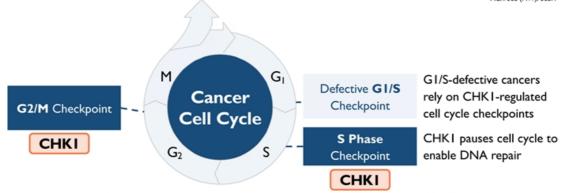


ACR-368: A CLINICALLY ACTIVE PHASE 2 CHK1/2 INHIBITOR

- ATP-competitive inhibitor of CHK1 (0.9 nM) and CHK2 (8 nM)
- Good ADME properties, minimal drug-drug interaction (DDI) potential
- Discovered by Array Biopharma, acquired by Eli Lilly & Company
- CoM patent exp. Oct., 2030; Salt-form exp. Apr., 2037



ACR-368 (MW): 365.4



- **Durable monotherapy activity:** Platinum-resistant ovarian and squamous cell cancers (Anal and H&N)
- Large safety database, favorable safety profile: >1,000 patients treated (~50% mono, ~50% in combination)
- Ideal for AP3 method: Proven clinical activity, but requires patient responder identification to achieve sufficient ORR



CLINICAL OVERVIEW OF ACR-368 MONOTHERAPY (PAST DATA)

Indication	Trial	ORR# (confirmed)	Median DoR°	Reference
HGSOC* (BRCA wild type, primarily platinum-resistant)	Phase 2 single center (NCI)	29%	>10 months^	Lee et al, Lancet Oncology, 2018
HGSOC (BRCA wild type and mutant; platinum-resistant and refractory)	Phase 2 multi-center (Lilly)	12.1% (platinum-resistant)	5.6 months	Konstantinopoulos et al; Gynec. Oncol.: 2022
Squamous cell cancer (anal cancer, head & neck cancer [H&N])	Phase 1b multi-center (Lilly)	19% HPV+ H&N 15% anal cancer	7 months (HPV+ H&N) 12 months anal cancer	Hong et al, CCR, 2018

Dosing and Administration

• IV q14d (RP2D = 105 mg/m²)

Safety summary

- Acceptable safety profile in >1,000 patients
 - No clinical or regulatory holds imposed across all clinical studies to date
- Primary adverse events ≥ grade 3 were hematological (manageable neutropenia and thrombocytopenia)
- Limited ≥ grade 3 non-hematological toxicities (\leq 7% for all AEs)
- Drug-related discontinuations <1-2%

*High grade serous ovarian cancer; ^Updated post-publication; # Overall response rate; °Duration of Response



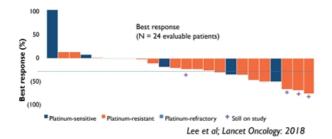
PAST PHASE 2 TRIALS IN HIGH GRADE SEROUS OVARIAN CANCER

NCI single-center Phase 2 study (N=28)

- · Heavily pre-treated patients; median 5 prior lines
- · Pretreatment tumor biopsies mandated

RESULTS

- ORR 29%; mDoR >10 months (post-publication)
- No genetic correlation with p53^{mut}, DDR^{mut}, or CCNEI



Lilly-sponsored multi-center (46 center, 8 country) Phase 2 study (N=169)

- · All lines of prior therapy, BRCA wt and mt, incl. prior PARPi
- · Pretreatment tumor biopsies mandated

RESULTS

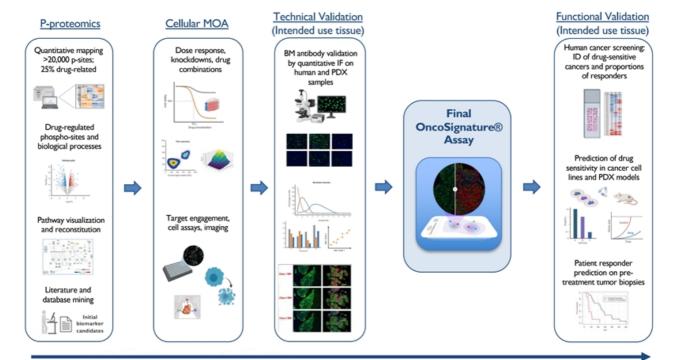
- ORR 12.1% (excl. unconfirmed); mDoR =5.6 months
- No correlation with genetic alterations

N = 169 PATIENTS	COHORT DESCRIPTION	PERCENT CONFIRMED ORR (95 % C.I.)	
Cohort 1 (53)	Plat resistant BRCA wt; ≥3 lines of prior therapy	11.3 (4.3 to 23.0)	
Cohort 2 (46)	Plat resistant BRCA wt; < 3 lines of prior therapy	13.0 (4.9 to 26.3)	
Cohort 3 (41)	Plat resistant BRCA mt, any line of therapy (must include prior PARPi)	12.2 (4.1 to 26.2)	
Cohort 4 (29)	Plat refractory, any BRCA, any line of therapy	6.9 (0.8 to 22.8)	

Konstantinopoulos et al; Gynec. Oncol.: 2022

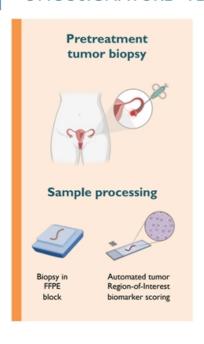
- Past trials suggest unenriched all-comer ORR in HGS ovarian cancer is ~15-20%
- Durable clinical activity in most responders
- No predictive biomarkers identified, need for alternative biomarker approach (ideal for AP3)

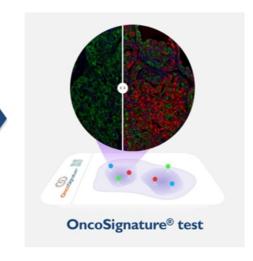
DEVELOPMENT OF AP3-BASED PATIENT SELECTION ONCOSIGNATURE® TESTS





ONCOSIGNATURE® TESTS: USAGE IN THE CLINIC

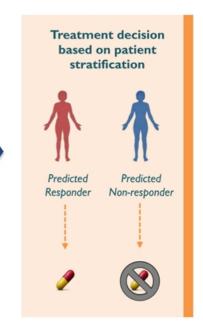






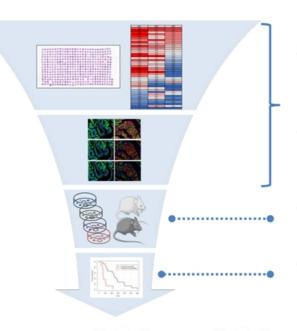


 Offered by CDx partner under exclusive license from Acrivon





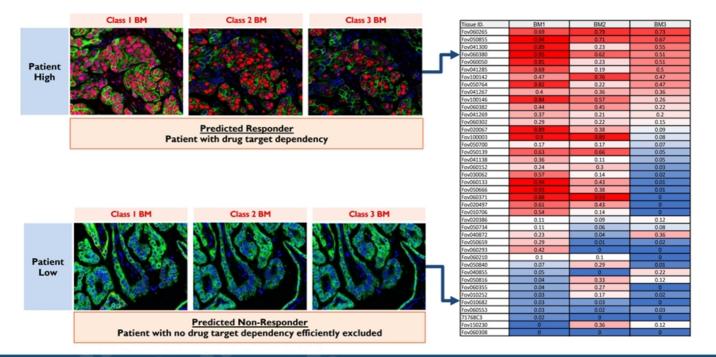
CONSISTENT ACR-368 ONCOSIGNATURE® PERFORMANCE ACROSS PRECLINICAL STUDIES



- Prediction of the fraction of human tumors sensitive to single agent ACR-368
 - Selection rate 30-40% across lead indications
- Identification of additional human tumor types predicted sensitive to single agent ACR-368
 - o Endometrial and bladder cancer
- Prediction of treatment outcome in human PDX models
 - o ORR enrichment to ≥ 55%; AUC of 0.88 and 0.9
- Two separate, prospectively designed, blinded studies of biopsies from past Phase 2 trials with ACR-368 in patients with platinum-resistant ovarian cancer
 - ORR enrichment to 47% (NCI) and 58% (Lilly multi-center)



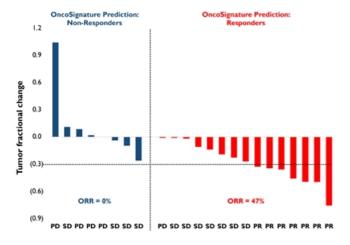
ACR-368 ONCOSIGNATURE® PREDICTION OF DRUG SENSITIVITY: BIOMARKER QUANTITATION ACROSS HUMAN CANCER PATIENT SAMPLES

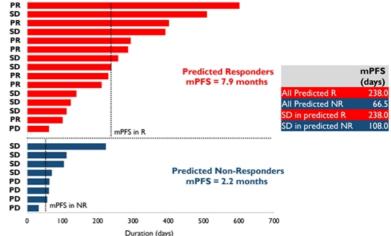




BIOPSY STUDY I: SUBSTANTIAL RESPONSE AND PFS BENEFIT IN PREDICTED RESPONDERS (BLINDED, PROSPECTIVELY DESIGNED STUDY)

- Available pretreatment tumor biopsies from past phase 2 trials at NCI with ACR-368 in platinum-resistant ovarian cancer were obtained
- OncoSignature® scores were generated blinded to treatment outcome at Acrivon and analyzed by 3rd party biostatistician in prospectively designed study



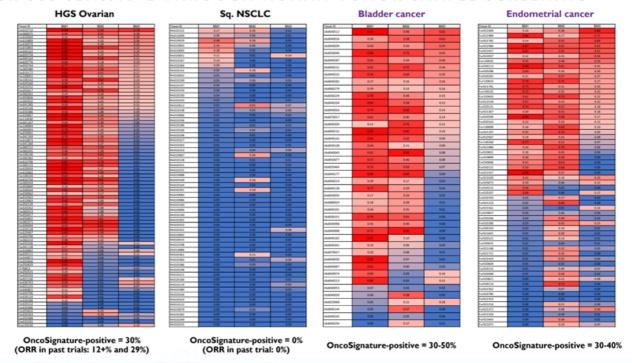


Result: ORR ~47%; mPFS = 7.9 months

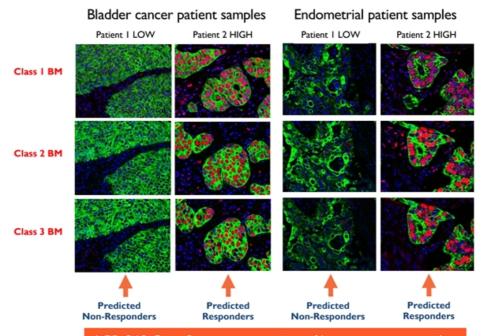
16



TWO ADDITIONAL HIGH UNMET NEED SOLID CANCERS PREDICTED ACR-368-SENSITIVE THROUGH HUMAN TUMOR SAMPLE SCREENING



TWO ATTRACTIVE ACR-368-SENSITIVE CANCER TYPES IDENTIFIED

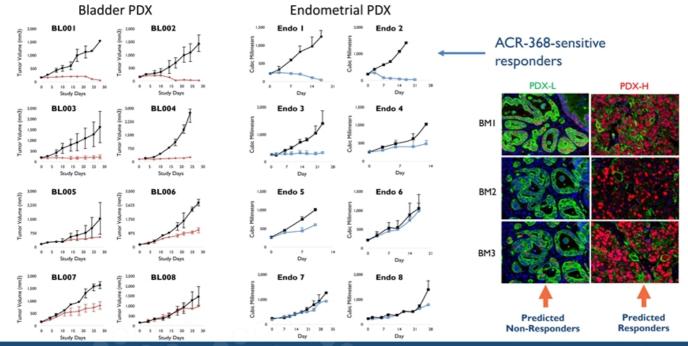


ACR-368 OncoSignature screening of human cancer samples

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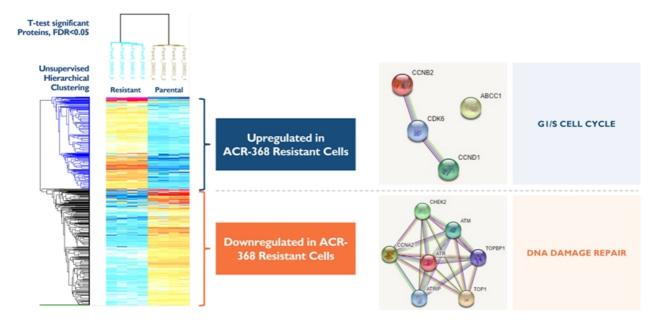


A SUBSET OF ENDOMETRIAL AND BLADDER PDX MODELS ARE HIGHLY SENSITIVE TO ACR-368





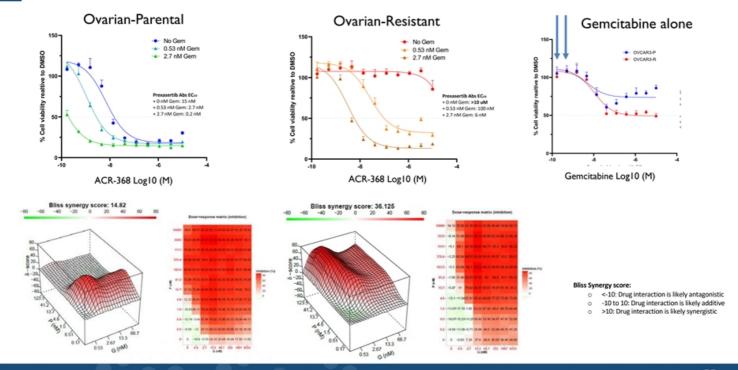
AP3 UNCOVERS ACTIONABLE ACR-368 RESISTANCE MECHANISMS UNBIASED AND INDEPENDENT OF GENETIC INFORMATION



Data suggest that gemcitabine might be a rational combination to overcome DDR suppression



LDG SENSITIZES OVARIAN CANCER CELL LINES TO ACR-368



ACR-368 PHASE 2 CLINICAL TRIAL HAS BEEN INITIATED









INTERNAL PIPELINE: WEEL AND PKMYTI - LEVERAGING AP3

Rationale

- Complement to in-licensing, leveraging our AP3 patient selection platform for high clinical POS
- Potential within DDR drug target class to pursue combinations (ACR-368, WEE1i, and PKMYT1i)

Approach:

- Targets with promising clinical activity or strong rationale and no obvious patient selection path (DDR)
- Expert crystallography/Med Chem CRO; privileged access to world's brightest synchrotron MAX IV in Lund
- Structure-based drug design and SAR guided by Target Product Profile, AP3 profiling, and parallel FTO analysis

Progress:

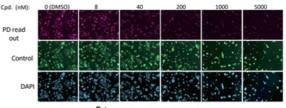
High resolution co-crystals generated, drug target engagement imaging assays established, single digit nM candidate lead series identified and profiled by our AP3 approach







WEEI co-crystallized with Ref. Cpd

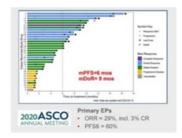


Primary target engagement assays

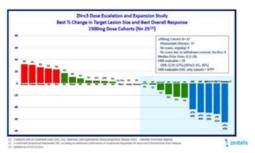


WEEL PROGRAM: IDEAL FOR THE AP3 PLATFORM

- WEEI is a mitotic cell cycle regulatory kinase; inhibition propagates genomic instability by premature DNA replication and cell cycle progression, resulting in mitotic catastrophe.
- Strong preclinical data and emerging clinical data:
 - AZD1775/MK1775/adavosertib (AstraZeneca)
 - Debio0123 (Debiopharm)
 - ZN-c3 (Zentalis Pharmaceuticals)







- Clinical activity
- Correlation with genetic alterations insufficient for responder identification
- Competitors have no obvious patient selection path

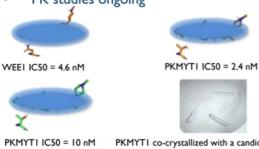


STRUCTURE- AND AP3-GUIDED DRUG DESIGN

WEEI and PKMYTI programs

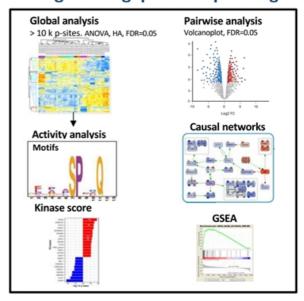
Lead optimization ongoing in several prioritized series based on high resolution co-crystals (WEE1: 2.1-2.6 Å; PKMYT1: 1.65-2.1 Å)

- Potent target inhibition (IC₅₀<10 nM)
- Confirmed target engagement in cells
- Novel structural series (FTO analyses)
- Kinase selectivity (IVKA and AP3 profiling)
- PK studies ongoing



PKMYT1 co-crystallized with a candidate compound

High throughput AP3 profiling



Leveraging AP3 for biologically relevant selectivity profiling



ACRIVON CORPORATE PRIORITIES

- MoU for ACR-368 OncoSignature® (filed)
- · CoM & MoU on all programs



Clinical · Advance phase 2 trials in multiple solid tumor indications with OncoSignature® patient selection

Team-building

· Key positions to support growth







CMC

· DS and DP CMC for confirmatory trials

Optionality and value

- · NDAs and Commercial Launch pending results
- · Pipeline expansion
- · Co-development deals/in-licensing



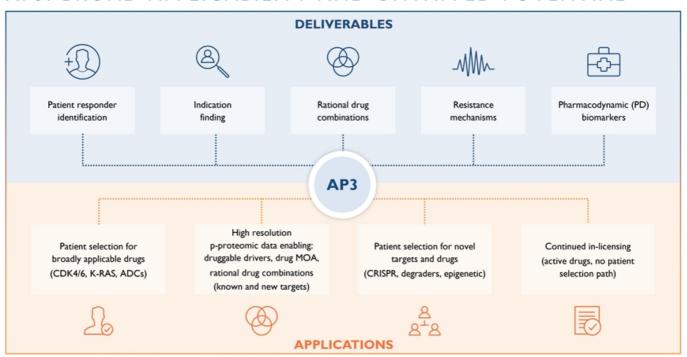


AP3 platform and pipeline

- Preclinical programs into IND-enabling phase
 OncoSignature® tests for Acrivon programs and potential co-development partnerships



AP3: BROAD APPLICABILITY AND UNTAPPED POTENTIAL



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FINANCIAL HIGHLIGHTS

Cash and marketable securities

\$169.6M

Balance sheet 31-December-2022 Projected runway at least into

Q4'24

Current operating plan with no additional financing

Fully Diluted Shares Outstanding

27.0M

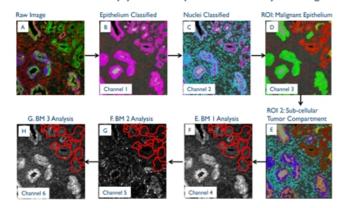
Shares and equity grants outstanding 31-December-2022

Unaudited.



TEAM HAS PIONEERED OUTCOME-PREDICTIVE QUANTITATIVE PROTEOMIC MULTIPLEX IN SITU TEST

Prostate cancer 8-marker biopsy test developed and launched by Founding team



ProMark®: Marketed, automated in situ proteomic test for human outcome prediction included under NCCN guidelines

^{*}Blume-Jensen et al: Development and clinical validation of an in situ biopsy-based multimarker assay for risk stratification in prostate cancer. Clinical Cancer Research (2015)

Ideal test	Protein multiplex in situ test	Current CDx tests
Quantitative and automated	✓	(√)
Validated Abs and reagents	✓	(√)
Drug target and pathway activation context	✓	
Biomarkers measured in relevant region on tumor biopsy	✓	
Imaging algorithm (tissue pattern)	✓	
Addresses tumor heterogeneity	✓	
Double-blinded, prospective validation	✓	(√)

Founding team: Has pioneered p-proteomics and quantitative multiplex imaging including double-blinded clinical validation*

SIGNATURE: MARKETED, OUTCOME-PREDICTIVE MULTIPLEX CANCER

TEST

Biology of Human Tumors

Clinical Cancer Research

Development and Clinical Validation of an In Situ **Biopsy-Based Multimarker Assay for Risk** Stratification in Prostate Cancer 52

(2015)

Peter Blume-Jensen¹, David M. Berman², David L. Rimm³, Michail Shipitsin¹, Mathew Putzi⁴, Thomas P. Nifong¹, Clayton Small¹, Sibgat Choudhury¹, Teresa Capela¹, Louis Coupal⁵, Christina Ernst¹, Aeron Hurley¹, Alex Kaprelyants¹, Hua Chang¹, Eldar Giladi¹, Julie Nardone¹, James Dunyak¹, Massimo Loda⁶, Eric A. Klein⁷, Cristina Magi-Galluzzi⁸, Mathieu Latour⁹, Jonathan I. Epstein¹⁰, Philip Kantoff⁶, and Fred Saad⁹

- Third-party blinded clinical validation, bioinformatic analysis (U. Montreal)
- Validation of locked ProMark[™] test on single institution biopsy cases (N=274)
- Secondary validation on multi-center biopsy cohort (N=359) for clinical use indication
- · Marketed test included under NCCN Guidelines and Medicare coverage



PIONEERING PHOSPHO-PROTEOMICS STUDY IDENTIFIES NOVEL PI3'K PATHWAY INHIBITOR BIOMARKERS



MAAAS

Sci Transl Med 2: 1-14 (2010)

RESEARCH ARTICLE

CANCER DRUG DEVELOPMENT

Pathway-Based Identification of Biomarkers for Targeted Therapeutics: Personalized Oncology with PI3K Pathway Inhibitors

Jannik N. Andersen, ¹* Sriram Sathyanarayanan, ¹* Alessandra Di Bacco, ¹ An Chi, ¹ Theresa Zhang, ¹ Albert H. Chen, ¹ Brian Dolinski, ¹ Manfred Kraus, ¹ Brian Roberts, ¹ William Arthur, ² Rich A. Klinghoffer, ¹† Diana Gargano, ¹* Lixia Li, ¹ Igor Feldman, ¹ Bethany Lynch, ¹ John Rush, ³ Ronald C. Hendrickson, ⁴ Peter Blume-Jensen, ¹ Cloud P. Paweletz ¹

Editorial Highlights:

VOLUME 28 NUMBER 10 OCTOBER 2010 NATURE BIOTECHNOLOGY

Tracing cancer networks with phosphoproteomics

David B Solit & Ingo K Mellinghoff

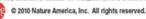
A mass-spectrometry approach for identifying downstream events in cance signaling pathways may help to tailor therapies to individual patients.



TOWARD CUSTOMIZING TUMOR TREATMENT

Just as our view of Earth has become increasingly global, cells are now seen as complex networks of interacting and intersecting signaling pathways rather than a collection of regulated genes.

Nature Reviews Cancer | AOP, published online 19 August 2010; doi:10.1038/nrc2922



A discovery strategy for novel cancer

biomarker



OLSEN LAB-EXAMPLES OF DEEP PROTEOMICS DRUG PROFILING

Science Signaling (2018)

ALK-i: LDK378, TAE684, crizotinib, lorlatinib.

Integrated proximal proteomics reveals IRS2 as a determinant of cell survival in ALK-driven neuroblastoma

Kintina & Ender¹⁰, Janua Endreur Potersen¹, Orde & Bakker Januar¹, Shita Sandhy¹⁰, Shita Sandhy

Cell Reports (2018) SHP2-i: SHP099 -allosteric inhibitor.

Large-Scale Phosphoproteomics Reveals Shp-2 Phosphatase-Dependent Regulators of Pdgf Receptor Signaling

Cell Reports (2017)

CHK1-i: SCH900776, ATM-i: KU55933
Proteomics Reveals Global Regulation
of Protein SUMOylation by ATM
and ATR Kinases during Replication Stress

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Cell Reports (2017) CDK7-I: THZ-1

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Cell Systems (2017)

Deepest proteome resolution of a human cell to date

An Optimized Shotgun Strategy for the Rapid Generation of Comprehensive Human Proteomes

Corte & Beller Jersen, 1º Christian B. Kelstrug, 1º Tannear B. Barth, Tara G. Lamen, *Orinta Haldrug, 1 Jarge B. Esmann, Karina B. Sermann, *Saran Reyn, *Todon F. Orinta*, Chan L. Anterson, *McNard L. Nelson, and Jarge D. Chang N. Golden, M. Chang L. Nelson, and Jarge D. Chang N. and Jospen V. Olssen⁽¹⁾
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Cell (2019)

Functional mapping of differential signaling by RPTK mutants

Oncogenic Mutations Rewire Signaling Pathways by Switching Protein Recruitment to Phosphotyrosine Sites

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Nature Communications (2020)
Highest throughput, sensitivity, and scalability to date

Rapid and site-specific deep phosphoproteome profiling by data-independent acquisition without the need for spectral libraries

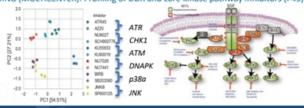
Nature Communications (2021)
Subcellular compartmental proteomics

Spatial-proteomics reveals phospho-signaling dynamics at subcellular resolution

Clinically actionable resistance mechanisms

Proteomics of resistance to Notch1 inhibition in acute lymphoblastic leukemia reveals targetable kinase signatures

ONGOING (MULTICENTER): Profiling of DDR and core kinase pathway inhibitors (>45)



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ADVISORS AND COLLABORATORS



George Demetri, M.D., FACP, FASCO, FAACR Professor, Harvard Med. School, Dir. Dana-Farber Cancer Institute & Ludwig Center, Boston

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- Key contributor to development and rapid approvals of Gleevec, Sutent, Stivarga, Zelboraf, Votrient, and Yondelis



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- Expert on protein biomarkers and quantitative tissue imaging
- · Academic lead on ProMark®



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- · Recognized pioneer and leading authority in phosphoproteomics and proteomic systems analyses
- Top 0.1% most cited scientist in protein sciences



Jung-Min Lee, M.D. NCI Collaborator Investigator, Lasker Clinical Research Scholar, NCI

- · Expert on women's cancers and DNA damage response (DDR)
- Lead and co-PI on numerous **HGSOC &TNBC** trials
- · Lead PI on ACR-368 platinumresistant ovarian trials

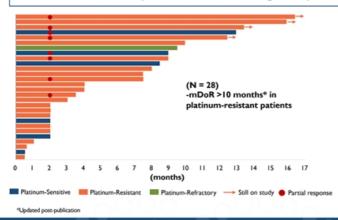


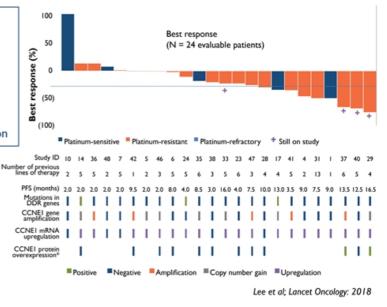
NATIONAL CANCER INSTITUTE (NCI) TRIAL IN HIGH GRADE SEROUS OVARIAN CANCER

- Single-arm, Phase 2 POC study (Dr. Jung-Min Lee)
- N=28 (21 platinum resistant, 6 sensitive, I refractory)
- Heavily pre-treated; median of 5 prior systemic therapies
- Pretreatment biopsies mandated

Results:

- 8 PR in 28 intent to treat (ITT) patients (ORR 29%)
- 6 PR in 21 platinum-resistant patients (ORR 29%)
- No correlation with p53*, DDR*, or CCNEI gene expression





Durable clinical activity in most responders (ideal for AP3)





MULTICENTER CLINICAL TRIAL IN ADVANCED HIGH GRADE SEROUS OVARIAN CANCER

Study design (Lilly-sponsored)

- Multi-center (46 centers, 8 countries), Ph. 2 (N = 169)
- · Pretreatment biopsies mandated

N = 169 PATIENTS	COHORT DESCRIPTION	PERCENT CONFIRMED ORR (95 % C.I.)	DURATION OF RESPONSE (DOR) IN MONTHS (95 % C.I.)	OVERALL SURVIVAL (OS) IN MONTHS (95 % C.I.)
Cohort 1 (53)	Plat resistant BRCA wt ≥3 lines of prior therapy	11.3 (4.3 to 23.0)	8.57 (5.55 to NA)	13.04 (7.46 to 19.25)
Cohort 2 (46)	Plat resistant BRCA wt < 3 lines of prior therapy	13.0 (4.9 to 26.3)	3.84 (2.79 to NA)	14.32 (11.76 to 16.46)
Cohort 3 (41)	Plat resistant BRCA mt , any line of therapy (must include prior PARPi)	12.2 (4.1 to 26.2)	5.55 (3.65 to 9.36)	11.14 (7.23 to 16.43)
Cohort 4 (29)	Plat refractory, any BRCA , any line of therapy	6.9 (0.8 to 22.8)	5.31 (5.06 to NA)	8.18 (6.18 to 11.93)

Konstantinopoulos et al; Gynec. Oncol.: 2022

Target indication: platinum resistant ovarian cancer (cohorts I-3, N = I40)

Observed clinical activity in cohorts 1-3:

o ORR = 12.1%; DoR = 5.6 months; OS = 11.9 months

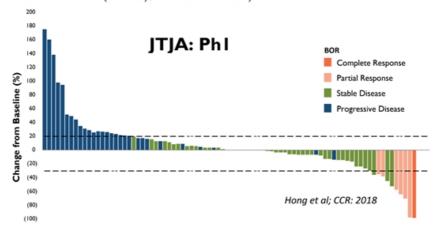
Past trials suggest unenriched all-comer ORR in HGS ovarian cancer is ~15-20%



SINGLE AGENT CLINICAL ACTIVITY IN OTHER TUMOR TYPES

ACR-368 activity in other heavily pretreated tumor types (primarily squamous cell cancer SCC):

- 15% ORR in **Anal** (N = 26), incl. 1 CR; mDoR = 12 mths*
- 19% ORR in **HPV+ H&N** (N=16); 5% ORR in all-comer **H&N** (N = 57); mDoR = 7 mths
- (5% ORR plat-sensitive SCLC (N =58); mDoR = 5 mths)



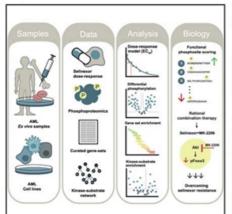
*ACR-368 Orphan Drug Designation for Anal Cancer transferred to Acrivon

AP3 PHOSPHOPROTEOMICS PROOF-OF-CONCEPT STUDY

Cell Reports

Phosphoproteomics of primary AML patient samples reveals rationale for AKT combination therapy and p53 context to overcome selinexor resistance

Graphical abstract



Kristina B. Emdal, Nicolàs Palacio-Escat, Caroline Wigerup, ..., Kristina Masson, Peter Blume-Jensen, Jesper V. Olsen

Correspondence

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In brief

Emdal et al. combine phosphoproteomics of samples from patients with AML and functional phosphosite scoring to uncover clinically actionable molecular context for selinexor efficacy. Sensitivity to selinexor correlates with functional p53 and is enhanced with nutlin-3a, while resistance is associated with dysregulated AKT-FOXO3 signaling and overcome by combining with MK-2206.

Using spatial phosphoproteomics developed in co-founder Jesper Olsen's lab (Nat. Commun., 2021) Acrivon's AP3 platform uncovers single agent sensitivity and rational drug combination for treatment with Selinexor, a selective inhibitor of nuclear export, in patients with AML

Cell Reports, August 9, 2022

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ELI LILLY ACR-368 HIGH LEVEL LICENSE TERMS

- In-licensing completed 27 January 2021
 - WW exclusive rights with rights to sub-license
 - \$5M up front and low single digit percentage equity subject to ordinary dilution going forward
 - Aggregate development and commercial milestone payments of up to \$168M, of which \$5M is due prior to NDA
 - Tiered percentage royalty on annual net sales ranging from low single-digit up to a maximum of 10% subject to certain specified reductions
 - Drug product as well as drug substance sufficient to treat several hundred patients
 - Limited right of first negotiation expiring 45 days upon completion of certain clinical milestones



HPV-POSITIVE CANCERS: STRONG RATIONALE AND INCREASING POTENTIAL MARKET OPPORTUNITY

- · Significant upregulation and tumor dependency on DDR in HPV+ cancers
 - Strong preclinical evidence demonstrating activation of Chk1 and Chk2
 - Durable activity of ACR-368 in in HPV-positive SCCHN and anal cancer
- Oral and Oropharyngeal cancer: 54,000 new cases/year: 50 to 70% HPV+ (SEER 2022)
 - 7,500 new cases of HPV-associated diagnosed in women and about 19,200 diagnosed in men each year
 - 2.7% annual increase in oropharyngeal cancer incidence among men



Cervical cancer: 14,100 new cases per year

Vulvar cancer: 5,580 new casesVaginal cancer: 1,370 new cases



3% annual increase



