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): January 25, 2023

RECURSION PHARMACEUTICALS, INC. (Exact name of registrant as specified in its charter)

001-40323

46-4099738 (I.R.S. Employer Identification No.)

Delaware (State or other jurisdiction of incorporation)

Securities registered pursuant to Section 12(b) of the Act

(Commission File Number) 41 S Rio Grande Street Salt Lake City, UT 84101 (Address of principal executive offices) (Zip code)

(385) 269 - 0203 (Registrant's telephone number, including area code)

Not Applicable

(Former name or former address, if changed since last report.)

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions:

□ 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)

D Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))

D 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.		
Title of each class	Trading symbol(s)	Name of each exchange on which registered
Class A Common Stock, par value \$0.00001 per share	RXRX	Nasdaq Global Select Market

Indicate by check mark whether the registrant is an emerging growth company as defined in Rule 405 of the Securities Act of 1933 or (§230.405 of this chapter) or Rule 12b-2 of the Securities Exchange Act of 1934 (§240.12b-2 of this chapter).

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

Item 8.01. Other Events.

On January 25, 2023, Recursion Pharmaceuticals, Inc. released an updated investor presentation. The investor presentation will be used at its Download Day presentation and from time to time in meetings with investors. A copy of the presentation is attached hereto as Exhibit 99.1.

Item 9.01. Financial Statements and Exhibits.

(d) Exhibits.

Exhibit Number	Description
99.1	Investor presentation of Recursion Pharmaceuticals. Inc. dated January 25, 2023.
104	Cover Page Interactive Data File (embedded within the Inline XBRL document)

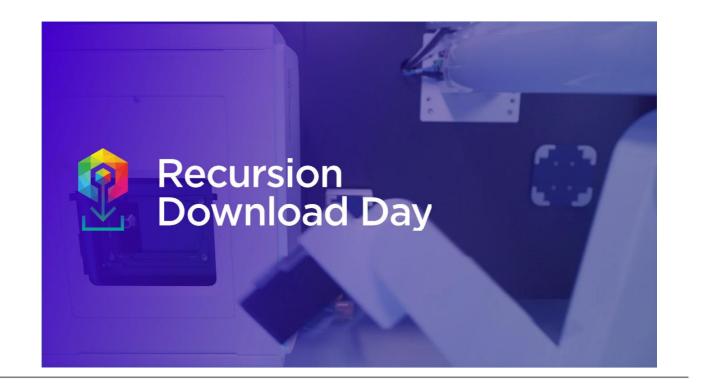
SIGNATURES

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 on January 25, 2023.

RECURSION PHARMACEUTICALS, INC.

By: /s/ Christopher Gibson Christopher Gibson

Chief Executive Officer



Agenda

Welcome	Tina Larson, President & COO R. Martin Chavez PhD, Chairman		
State of Recursion	Chris Gibson PhD, Co-Founder & CEO		
Recursion OS	Imran Haque PhD, VP of Data Science Lina Nilsson PhD, VP of Product		
Pre-Clinical Opportunities	Laura Schaevitz PhD, SVP and Head of Research		
Tours & Demos	Ben Mabey, Chief Technology Officer		
(12:00 – 1:00 PM)			
Welcome Back	Heather Kirkby, Chief People Officer Dean Li MD PhD, Co-founder and Board Member		
	Shafique Virani MD, Chief Business Officer		
Clinical Programs	and Interim Chief Medical Officer		
Clinical Programs Partnerships	and Interim Chief Medical Officer Matt Kinn, SVP of Business Development		

Welcome Remarks

Tina M. Larson President and COO of Recursion

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Welcome Remarks

R. Martin Chavez PhD Chairperson of Recursion

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Disclaimers

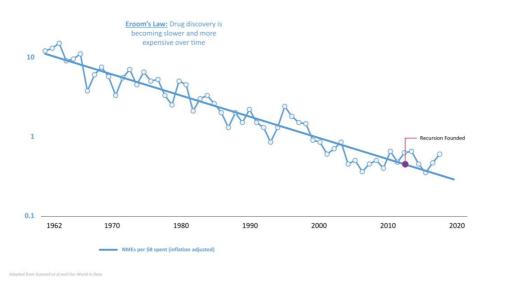
This presentation and any accompanying discussion and documents contain information that includes or is based upon "forward-looking statements" within the meaning of the Securities Litigation Reform Act of 1995. These forward-looking statements are based on our current expectations, estimates and projections about our industry and our company, management's beliefs and certain assumptions we have made. The words "plan," "anticipate," "believe," "continue," "estimate," "expect," "intend," "may," "will" and similar expressions are intended to identify forward-looking statements. Forward-looking statements made in this presentation include statements about Recursion's use of the proceeds from its private placement, the initiation, timing, progress, results, and cost of our research and development programs and our current and future preclinical and clinical studies, the potential size of the market opportunity for our drug candidates, our ability to identify viable new drug candidates for clinical development and the accelerating rate at which we expect to identify such candidates, our expectation that the assets that will drive the most value for us are those that we will identify in the future using our datasets and tools, and many others. Forward-looking statements made in this presentation-are neither historical facts nor assurances of future performance, are subject to significant risks and uncertainties, and may not occur as actual results could differ materially and adversely from those anticipated or implied in the forward-looking statements. For a discussion of factors that could affect our business, please refer to the "Risk Factors" sections in our filings with the U.S. Securities and Exchange Commission, including our most recent Quarterly Report on Form 10-Q and our Annual Report on Form 10-K. This presentation does not purport to contain all the information that may be required to make a full analysis of the subject matter. We undertake no obligation to correct or update any forward-looking statements

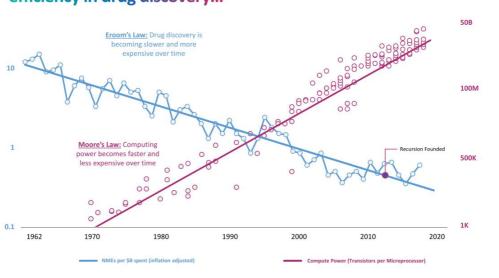
Certain information contained in this presentation relates to or is based on studies, publications, surveys and other data obtained from third-party sources and the company's own internal estimates and research. While the company believes these third-party sources to be reliable as of the date of this presentation, it has not independently verified, and makes no representation as to the adequacy, fairness, accuracy or completeness of, any information obtained from third-party sources. In addition, all of the market data included in this presentation involves a number of assumptions and limitations, and there can be no guarantee as to the accuracy or reliability of such assumptions. Finally, while the company believes its own internal research is reliable, such research has not been verified by any independent source.

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Any non-Recursion logos or trademarks included herein are the property of the owners thereof and are used for reference purposes only.

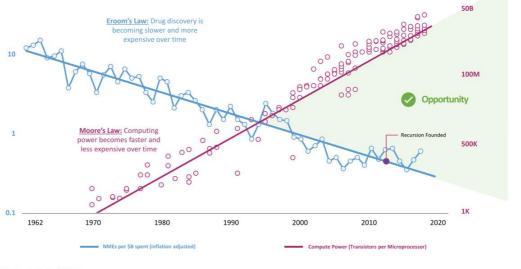
The biopharmaceutical industry faces pressure amidst declining efficiency in drug discovery...





The biopharmaceutical industry faces pressure amidst declining efficiency in drug discovery...

Recursion was founded to conduct an experiment: determine whether technology can create an inflection in the discovery efficiency curve



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dapted from Scannell et al and Our World in Data

An experiment from the beginning...



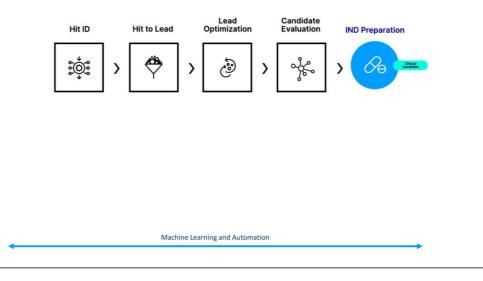
Hypothesis 1: In biology, structure suits function; by applying sophisticated analysis techniques to images of human cells, a new scale of biological insight can be unlocked

An experiment from the beginning...

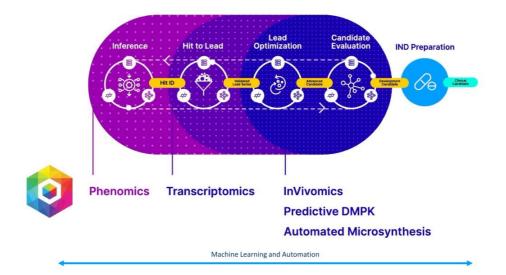


Hypothesis 2: By industrializing a small number of extraordinarily data-rich assays using automation and computation, biology and chemistry can be mapped and navigated, turning drug discovery into an efficient search problem

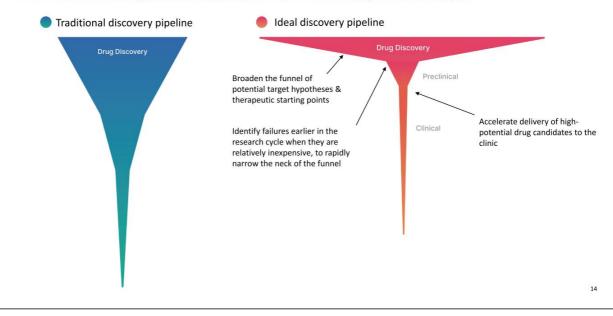
Continuing to mature the TechBio value proposition – multiple cycles of learning and iteration



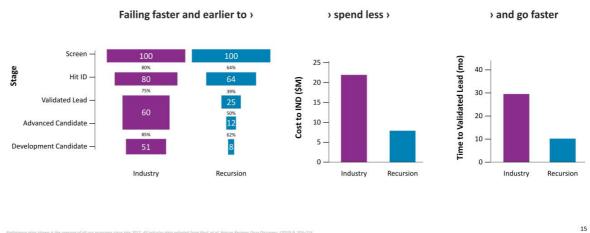
Continuing to mature the TechBio value proposition – multiple cycles of learning and iteration



Recursion is designed to impact drug discovery productivity...



...Which Recursion has demonstrated with leading indicators of efficiency



Maturing the TechBio value proposition in 2022

Initiated 5 clinical trials in 2022 (3 Ph2, 2 Ph1)

Includes Ph1 FAP study completed by Recursion

Planning a 6th clinical trial to initiate (Ph1b/2)

Novel oncology programs (Target Alpha, Target Gamma) nearing IND-enabling studies

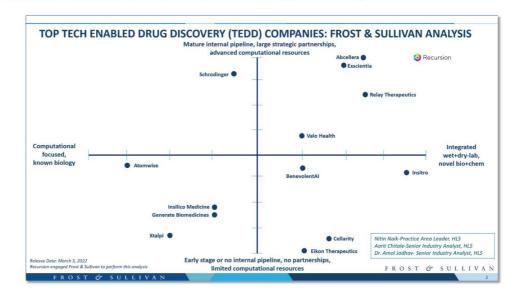
Advancing collaborations in Fibrosis (Bayer) and Neuroscience (Roche-Genentech)

 \$13B in potential milestones across 50+ possible programs plus royalties

We believe that we have built one of the **largest** proprietary & relatable in-vitro biological and chemical datasets on Earth • >21 petabytes of data and

>3 trillion searchable relationships





Recursion leads the rise of AI-enabled drug discovery

New today

Pipeline

- Guidance on top-line readout for Ph2 CCM program
- Guidance on interim Ph2 safety readout for NF2 program
- Guidance on Ph1 C diff readout
- Trial update on Ph2 FAP program
- Guidance on Ph1b/2 AXIN1/APC trial start
- Target disclosure for Project Gamma

Partnerships

- Update on Bayer collaboration including state of partnered pipeline
- Update on Roche/Genentech collaboration

Platform

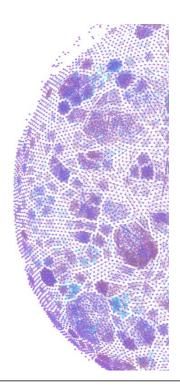
Announcement of RXRX3 and MolRec dataset releases

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Strong Financials *\$550M in cash and cash equivalents at the end of 2022 with potential for increased revenue in the near term

Our Mission:

Decode Biology to Radically Improve Lives





RecursionOS

Lina Nilsson PhD Vice President, Product Imran Haque PhD Vice President, Data Science

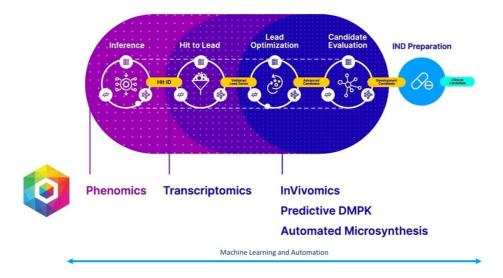
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Recursion

Recursion's map-based approach is designed to set the standard for drug discovery in the 21st century

Traditional Drug Discovery			Recursion Approach	
	Literature drives discovery. Informs target-based hypotheses	VS	Å	Platforms drive discovery. Unbiased & target agnostic
S	Data are an exhaust. <i>Limited to testing hypotheses</i>	VS	ß	Data are our fuel. Shape our hypotheses
	Disparate data generation. Siloed to individual programs and diseases	VS		Connected data across programs. Relatable high-dimensional data
\rightarrow	Linear process. Little cross-program learning or iteration	VS		Virtuous cycles of atoms & bits. Iterative feedback accelerates learning
0 0	Bespoke processes. Low-dimensional assays & biomarkers	VS		Industrialized to scale. Automation & standardization

Industrializing drug discovery at Recursion: The big picture



Recursion OS enables scale, reliability and relatability of datasets



Biological Tools

Automation Tools

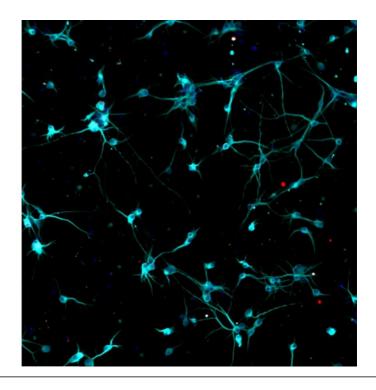




Model and manipulate disease biology



High-quality neurons produced in-house in 2022 using completely novel techniques.





Create scalable, repeatable and reliable laboratory processes







Extract, organize and analyze highly structured data

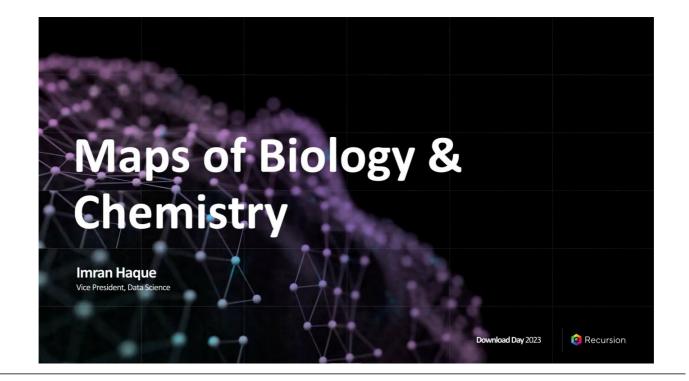
>21 Petabytes

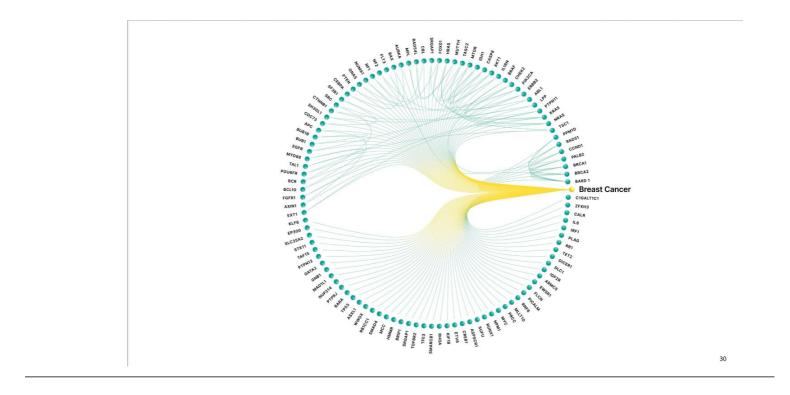
Proprietary high-dimensional data

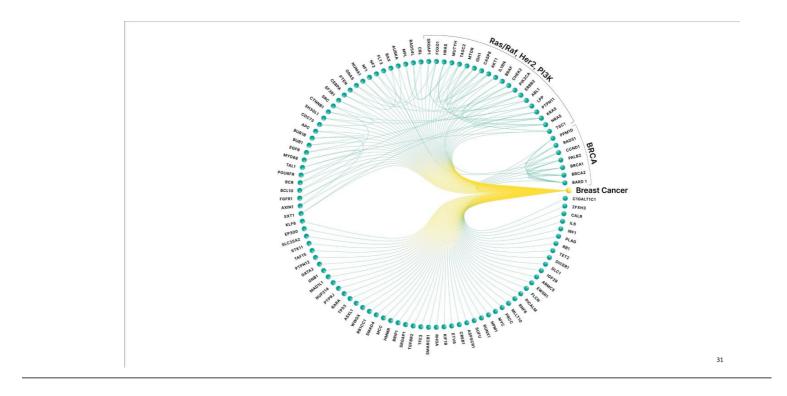


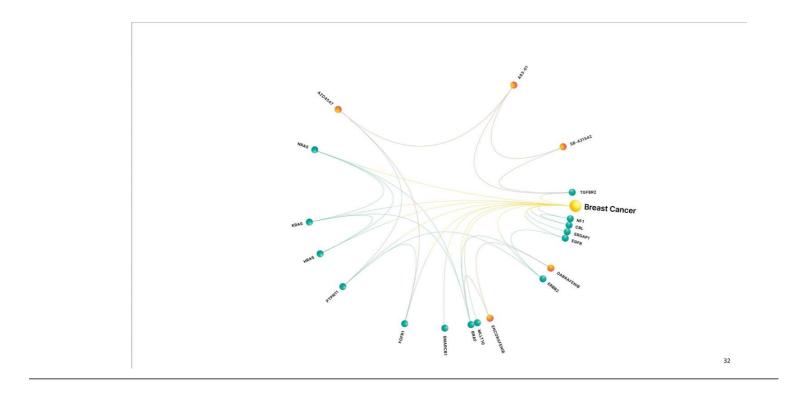
We build biological and chemical datasets to map relationships across scales and understand the connectivity of the system

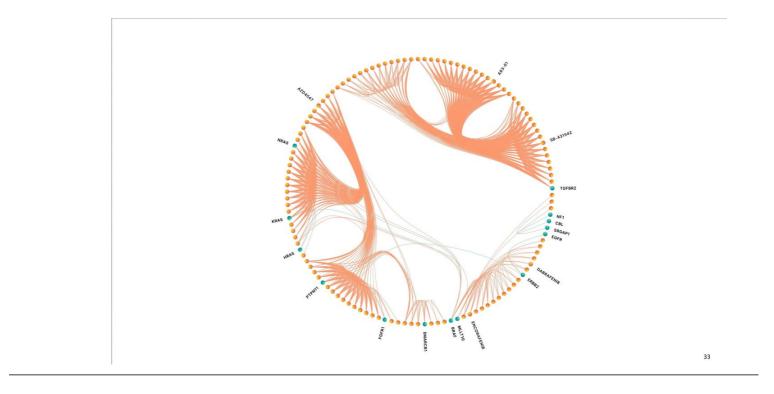




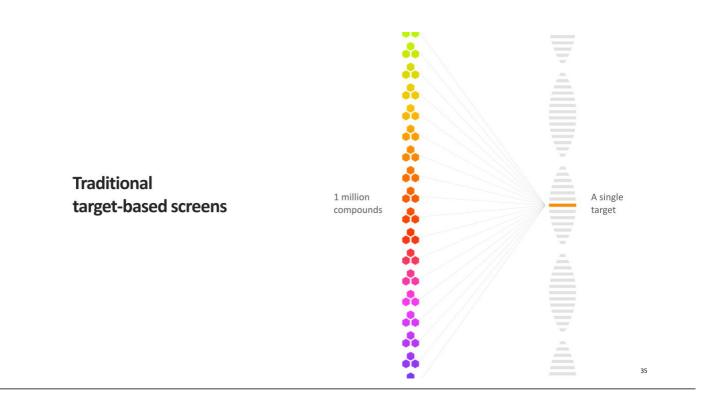


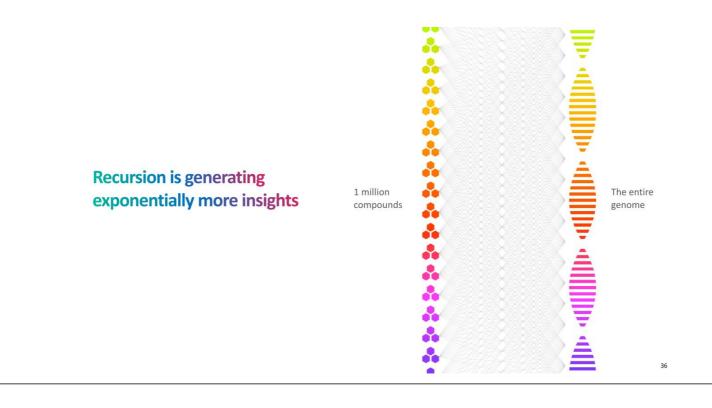




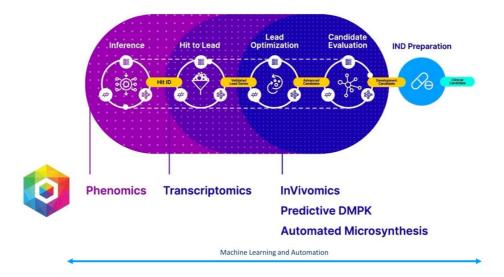








Industrializing drug discovery at Recursion: The big picture

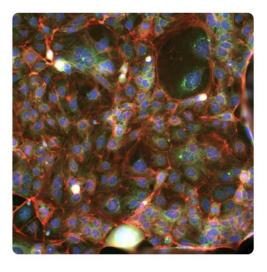


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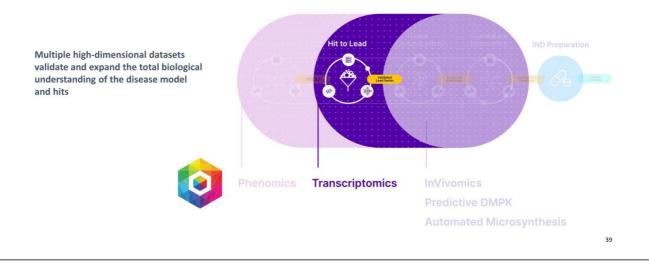
Hit ID with phenomics

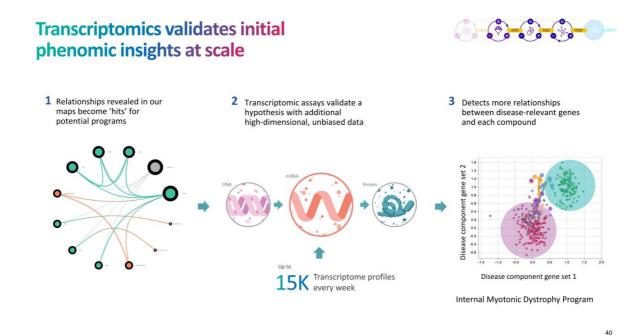




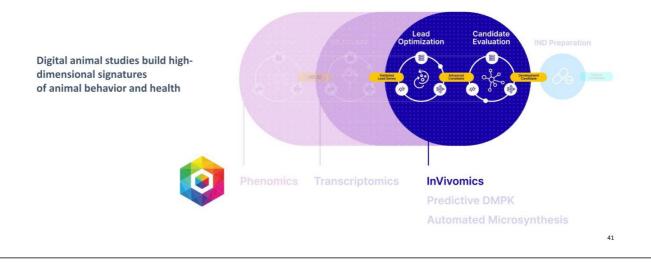


Industrialized program generation and hit to lead





Industrialized Program Progression



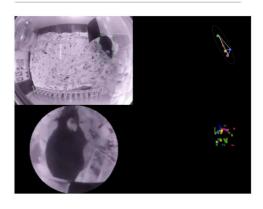


InVivomics measures animal behavior with less bias and more data

Traditional Animal Studies

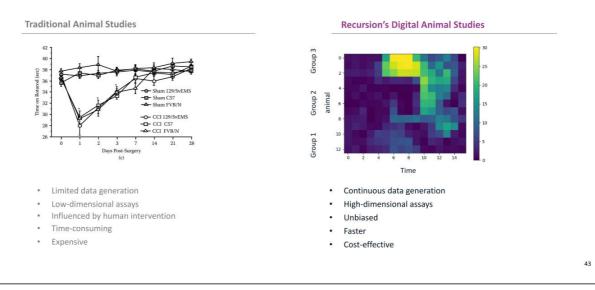


Recursion's Digital Animal Studies





InVivomics measures animal behavior with less bias and more data

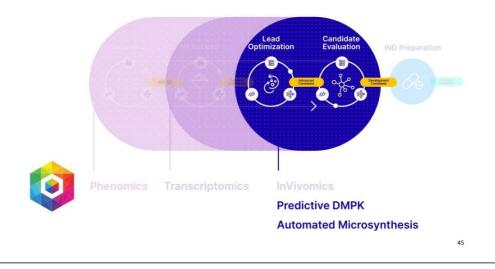


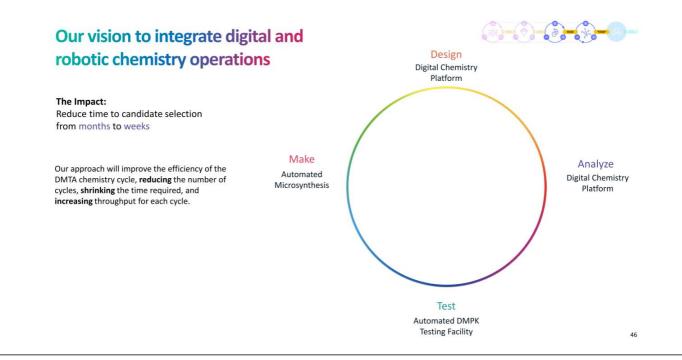


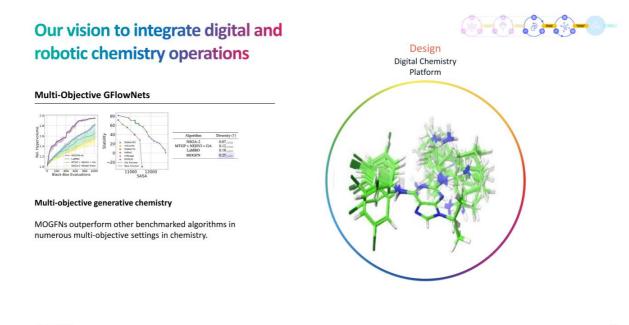
InVivomics enables faster readouts for critical animal studies

		Industry Standard		Recursion	
$\langle \rangle$	Disease Induction	1 year	VS.	~2 months	
Ø	Digital Tolerability	1 week	vs.	Real-time	
P	Liability InVivomics	6-8 weeks	vs.	<1 week	
					44

Industrialized Optimization









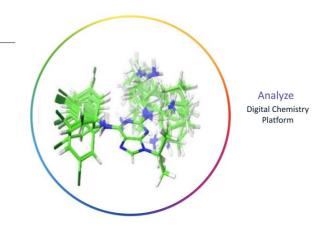
Our vision to integrate digital and robotic chemistry operations

MolE: a molecular foundation model for drug discovery



Foundation models for low-data prediction

MoIE achieves #1 or #2 performance on 14 of 22 Therapeutics Data Commons ADMET tasks, including all distribution and metabolism tasks, and #1 in 9 of 22.



Our vision to integrate digital and robotic chemistry operations



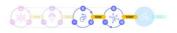
Automated DMPK Testing

Recursion proprietary DMPK module designed to test up to 500 compounds / week on three critical DMPK assays, to drive programs <u>and</u> fuel machine learning.



Test Automated DMPK Testing Facility

Our vision to integrate digital and robotic chemistry operations



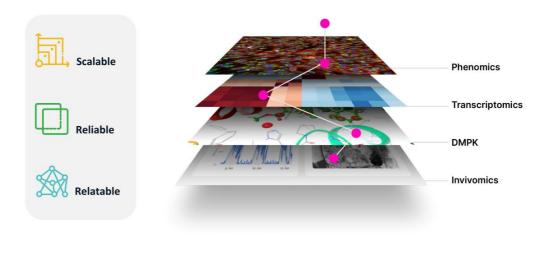
Robotic Synthesis

Automation of chemical synthesis will enable broader SAR and faster turnaround time for active learning cycles.

Make Automated Microsynthesis



Empowering scientists with multi-modal maps



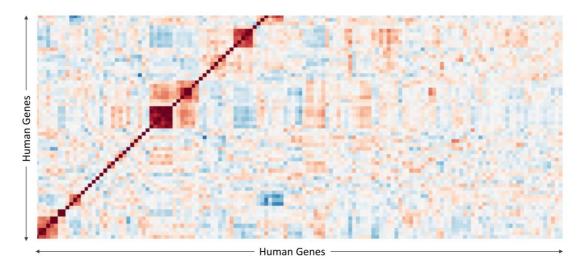
Pre-clinical Opportunities

Laura Schaevitz PhD Senior Vice President, Head of Research

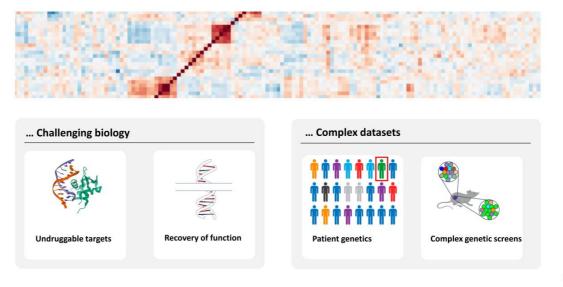
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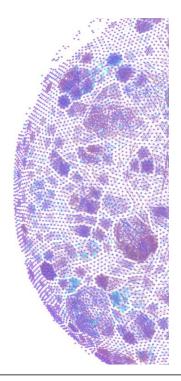
The Recursion OS enables a differentiated capacity to interrogate...



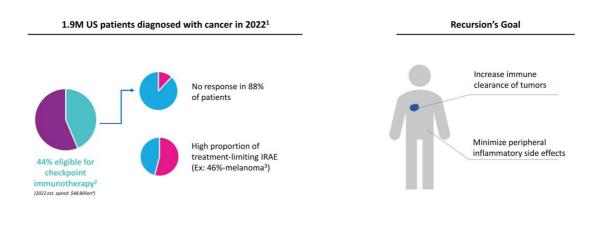
The Recursion OS enables a differentiated capacity to interrogate...



Target Alpha: Potential first-in-class NCE with novel MOA to enhance anti-PD-(L)1 response



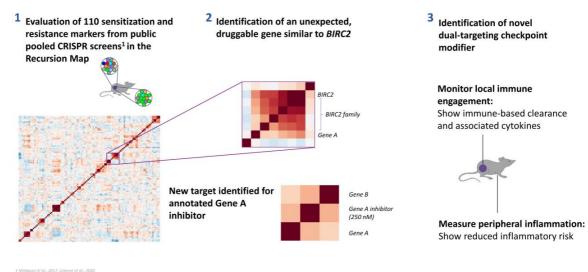
Pre-clinical: Target α Ideal immunotherapy combination improves patient response and minimizes immune-related adverse events (IRAE)



Cancer.gov 2. Hasiam, A.; et al. JAMA Netw Open. 2019, 2, e192535. 2. Valentin, J.; et al. Journal of Oncology, Volume 2021, Article (D 5524685. 3. Ghisoni, E.; et al. European Journal of Cancer 149, 2021, 153; 4. Evoluate Pharma

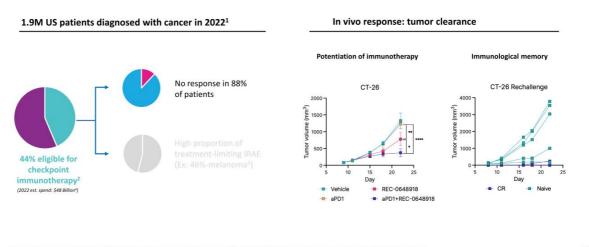


Pre-clinical: Target α Potential first-in-class NCE with novel MOA to enhance anti-PD-(L)1 response



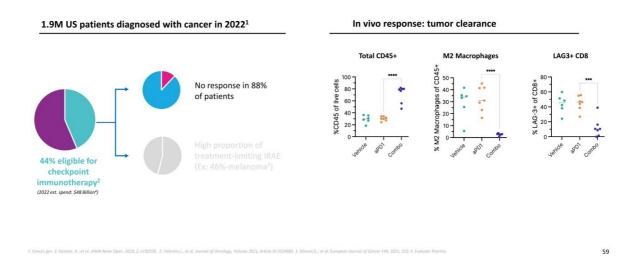


Pre-clinical: Target α Alpha series achieves in vivo tumor response while minimizing peripheral inflammation



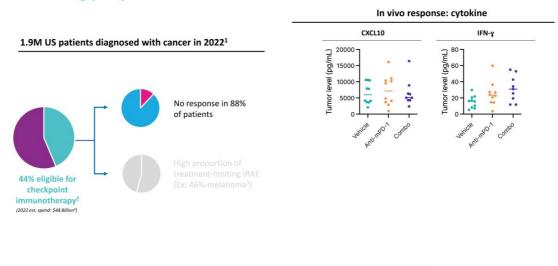


Pre-clinical: Target α Alpha series achieves in vivo tumor response while minimizing peripheral inflammation





Pre-clinical: Target α Alpha series achieves in vivo tumor response while minimizing peripheral inflammation

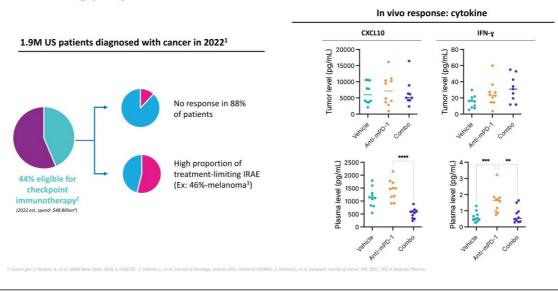


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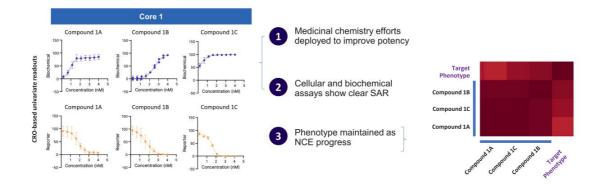
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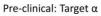
Pre-clinical: Target α Alpha series achieves in vivo tumor response while minimizing peripheral inflammation





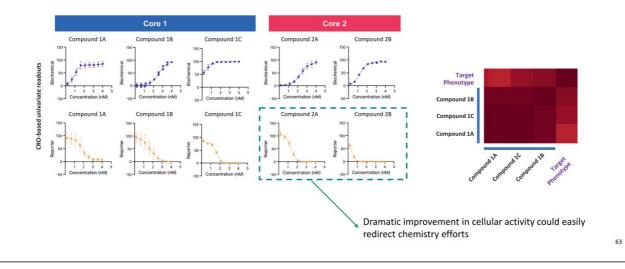
Pre-clinical: Target α Map-guided compound optimization





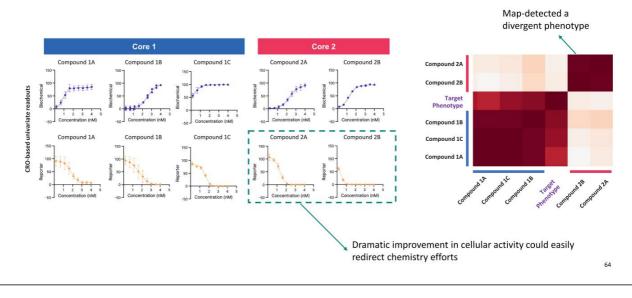


Phenomics captures total polypharmacologic activity of compounds and uncovers dramatic changes missed by univariate assays



Pre-clinical: Target α

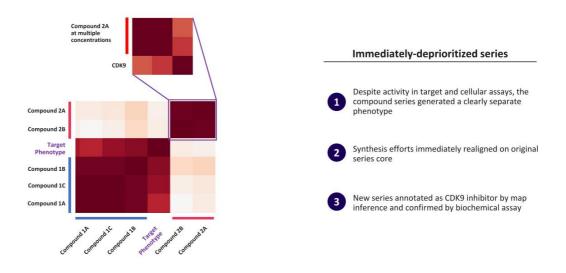
Phenomics captures total polypharmacologic activity of compounds and uncovers dramatic changes missed by univariate assays







Pre-clinical: Target α Phenotype immediately redirects series away from unwanted activity





Pre-clinical: Target α

Recursion OS essential to discovering program insights and driving efficient compound optimization



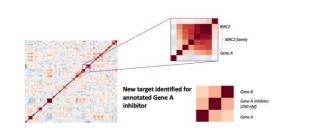
Unbiased discovery of an exciting dual targeting compound that appears to both enhance anti-PD1 response, while also decreasing peripheral inflammation



Recursion OS augmented our medicinal chemistry team enabling efficient optimization efforts on a molecule with essential polypharmacology

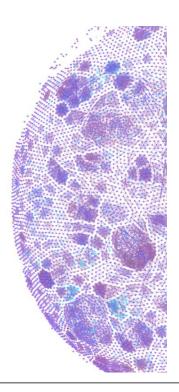
and 19 Tard of another 19

Compound 2A at multiple



Target Gamma:

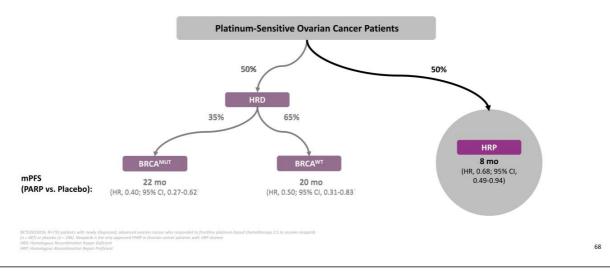
Novel CDK12-adjacent target, RBM39, for potentially treating HRD-negative ovarian cancer



Pre-clinical: Target γ

Clinical benefit of PARP inhibitors is limited in HRD-negative (HR-proficient) ovarian cancer patients

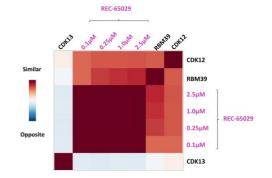
Data from cohort analysis of Phase 3 PRIMA trial for niraparib





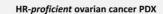
Pre-clinical: Target y Novel CDK12-adjacent target, RBM39, for potentially treating HR-proficient ovarian cancer

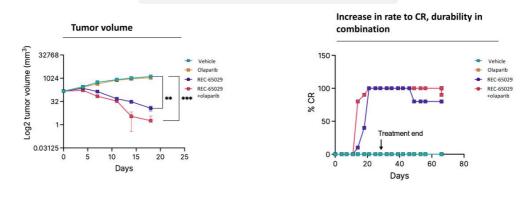
- CDK12 has been advanced as a target to improve response in the HR-proficient setting
- Selective inhibition of CDK12 over other CDKs, especially CDK13, is very challenging
- Inhibition of target RBM39 (for example, with REC-65029) may mimic inhibition of CDK12 while mitigating toxicity due to CDK13 inhibition





Pre-clinical: Target y Novel CDK12-adjacent target, RBM39, induces tumor regression alone or in combination with PARPi in vivo

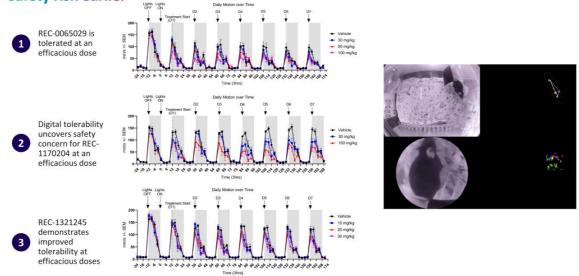




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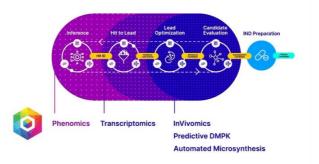
Pre-clinical: Target y Recursion OS-guided digital tolerability with InVivomics minimized unexpected safety risk earlier



Pre-clinical

Looking ahead to 2023 and beyond

- Target Alpha and Gamma reaching IND-enabling studies in 2023
- Continuing to augment our digital chemistry and predictive capabilities (property assessment, DMPK, ADMET, etc.)
- Continuing to drive potential first-in-disease or first-in-class programs at greater automation and scale



RxRx3 Dataset & MolRec Application

Ben Mabey Chief Technology Officer

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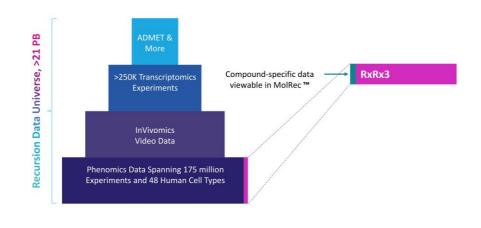
@ Recursion

Leading the field in open science – RxRx3

RxRx3: Phenomics Map of Biology

- Spans CRISPR knockouts of most of the human genome, ~17k genes
- 1,600 FDA approved and commercially available bioactive compounds at 8 concentrations and tens
 of thousands of control images
- 2.2 million images and deep learning embeddings of HUVEC cells, over 100TB
- Recursion's 5th major public dataset release,
 - 100 times larger than our previous datasets combined

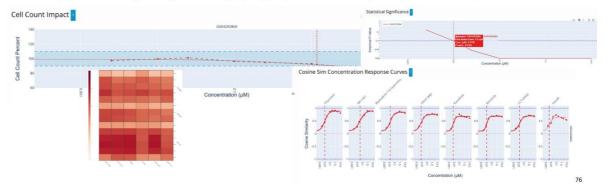
RxRx3: <1% of Recursion's phenomic data



Leading the field in open science – MolRec[™] using RxRx3

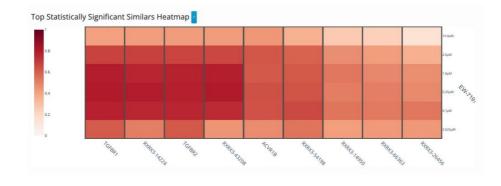
MolRec[™] is a simplified version of one of Recursion's internal compound intelligence tools

- A demo/freemium app to illustrate what can be done with this data. This is not our flagship internal Map App.
- We are providing this tool for basic exploration of compound/compound and compound/gene relationships across ~1,600
 FDA approved and commercially available bioactive compounds
- All plots and driven by this single dataset highlighting the power and flexibility of our phenomics-based platform

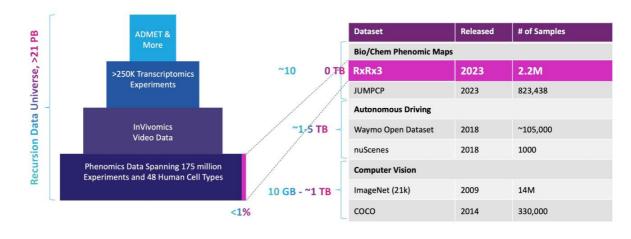


Offer a glimpse to pique interest with potential partners

The majority of the genes (~16k) are anonymized / blinded to facilitate a "sneak peek"







Goals of releasing RxRx3 & MolRec[™]

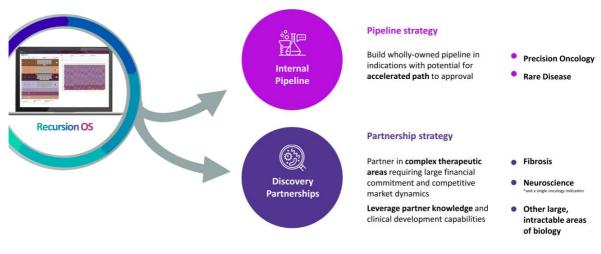
- Offer a glimpse of the power of Recursion's internal data and tools to pique the interest of potential partners
- Provide the largest dataset of its kind to date to enrich the field and foster the next generation of computational biologists
- Discover new methods and bright talent that we can bring in house

Clinical Programs

Shafique Virani MD Chief Business Officer & Interim Chief Medical Officer

Download Day 2023

🍘 Recursion



How we create value using our maps of biology and chemistry

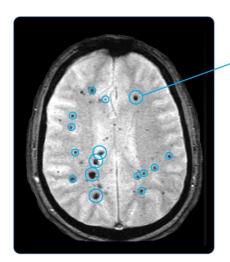
Our pipeline reflects the scale and breadth of our approach

Therapeutic Area	Indication	Late Discovery	Preclinical	Phase 1	Phase 2	Phase 3
ncology	FAMILIAL ADENOMATOUS POLYPOSIS (APC; est. 50K)					
	AXIN1/APC MUTANT CANCERS (AXIN1/APC mutant cancers; est. 32K)					
	CANCER IMMUNOTHERAPY, TARGET DELTA (Multiple; 88K ²)					
	MYC-DRIVEN ONCOLOGY (MYC; est. 54K ¹)					
	CANCER IMMUNOTHERAPY TARGET ALPHA (Multiple; 72K ²)					
	CANCER IMMUNOTHERAPY TARGET BETA (Multiple; 15K ²)					
	HR-PROFICIENT OVARIAN CANCER TARGET GAMMA (HR-proficient ovarian cancer; 13K)					
are & Other	CEREBRAL CAVERNOUS MALFORMATION (CCM; est. 360K ³)			-		
	NEUROFIBROMATOSIS TYPE 2 (NF2; est. 33K*)					
	CLOSTRIDIUM DIFFICILE COLITIS (est. 730K)					
artnership Programs ultiple programs advancing Multaneously						
Nore than a dozen ear	ly discovery and research programs in opcolog	, neuroscience, inflamm	ation & immunology	and rare disease		
iore than a dozen ear	iy discovery and research programs in oncolog,	, neuroscience, injiunin	ation & minunology,	, una fure uiseuse		
More than a dozen ear	ly discovery and research programs in oncolog	ı, neuroscience, inflamm	ation & immunology,	, and rare disease		
	EUS incidence unless otherwise noted. EUS is defined as France, Germany, Italy, Sp ion. [2] Our program has the potential to address a number of indications in this sp					nnually. We have not finalized a

REC-994 for the Treatment of Symptomatic Cerebral Cavernous Malformations (CCM)

Target / MOA	Superoxide Scavenger
Molecule Type	Small Molecule
Lead Indication(s)	Cerebral Cavernous Malformations
Status	Phase 2
Designation(s)	US & EU Orphan Drug
Source of Insight	Recursion OS

Clinical: CCM Disease Overview : Cerebral Cavernous Malformations (CCM)



Description

- Large unmet need for a novel nonsurgical treatment
- Vascular malformations (cavernomas) in the brain and spinal cord
 High-risk for hemorrhage creates "ticking time bomb"
- Progressive increase in CCM size and number over time in those with familial disease
- Debilitating symptoms, including intractable seizure, intracerebral hemorrhage, focal neurological deficits

"Historically, cavernomas have been managed primarily with observation, surgical resection, and occasionally radiotherapy. However, for a number of reasons, many patients with cavernomas must endure a life with neurologic symptoms"

- Ryan Kellogg, MD, Investigator at the University of Virginia

Clinical: CCM CCM is an Under-Appreciated Orphan Disease

Non-oncology Orphan Indication	Product	U.S. + EU5 Prevalence
Cerebral cavernous malformation (CCM)	REC-994 (Recursion)	>1,800,000 (Symptomatic: ~360,000)
ldiopathic pulmonary fibrosis (IPF)	Esbriet (pirfenidone)	>160,000
Cystic fibrosis (CF)	VX-669/ VX-445 + Tezacaftor + Ivacaftor - Vertex	>55,000
Spinal muscular atrophy (SMA)	SPINRAZA (nusinersen)	>65,000

Source: Angloma Alliance ; Remning ID, et al. Population-Based Prevalence of Genetral Covernous Malformations in Older Adults: Maya Clinic Study of Aging JAMA Neurol. 2017 J J 178(7):801-805. doi: 10.1003/geneurol.2017.0439. PMICD: PMICS4F7651 ; Spiegler 5, et al. Cerebral Covernous Malformations in Older Adults: Maya Clinic Study of Aging JAMA Neurol. 2017 J J 178(7):801-805. doi: 10.1003/geneurol.2017.0439. PMICD: PMICS4F7651 ; Spiegler 5, et al. Cerebral Covernous Malformations in Older Adults: Maya Clinic Study of Aging JAMA Neurol. 2017 J J 178(7):801-805. doi: 10.1003/geneurol.2017.0439. PMICD: PMICS4F7651 ; Spiegler 5, et al. Cerebral Covernous Malformations in Older Adults: Maya Clinic Study of Aging JAMA Neurol. 2017 J J 178(7):801-805. doi: 10.1003/geneurol.2017.0439. PMICD: PMICS4F7651 ; Spiegler 5, et al. Cerebral Covernous Malformations. An Update and Prevalence of Malexal III J 178(7):001. doi: 10.1119/J000406092; Etab. 2018 J Int 3. PMICD: PMICS4F76541 ; Spiegler 5, et al. Cerebral Covernous Malformations. An Update and Prevalence of Malexal III J 178(7):001. doi: 10.1119/J000406092; Etab. 2018 J Int 3. PMICD: PMICS4F7641 ; Spiegler 5, et al. Cerebral Covernous Malformations. An Update and Prevalence of Malexal III J Int 3. PMICD: PMICS4F7641 ; Spiegler 5, et al. Cerebral Covernous Malformations. An Update and Prevalence of Malexal III J Int 3. PMICD: PMICS4F7641 ; Spiegler 5, et al. Cerebral Covernous Malformations. An Update and Prevalence of Malexal III J Int 3. PMICD: PMICS4F7641 ; Spiegler 5, et al. Cerebral Covernous Malformations. An Update and Prevalence of Malexal III J Int 3. PMICD: PMICS4F7641 ; Spiegler 5, et al. Cerebral Covernous Malformations. An Update and Prevalence of Malexal III J Int 3. PMICD: PMICS4F7641 ; Spiegler 5, et al. Cerebral Covernous Malformations. An Update and Prevalence of Malexal III J Int 3. PMICD: PMICS4F7641 ; Spiegler 5, et al. Cerebral Covernous Malformations. An Update and Prevalence of Malexal III J Int 3. PMICD: PMICS4F7641 ; Spiegler 5, et al. Cerebral

Clinical: CCM Disease Overview : Cerebral Cavernous Malformations (CCM)



Patient Population – Large and Diagnosable

• >1 million patients worldwide live with these lesions today

- Caused by loss of function mutation in one of three genes: CCM1 (60%), CCM2 (20%), and CCM3 (20%)
- Inherited autosomal dominant mutation in 30-40%; or sporadic
- US symptomatic population is more than 5 times larger than other rare diseases like Cystic Fibrosis (>31k patients) and Spinal Muscular Atrophy (>33k patients)

No Approved Medical Therapy

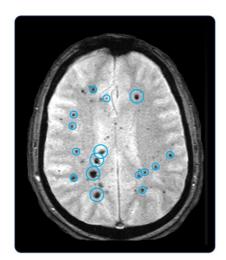
- No approved drugs for CCM and no other potential therapeutic in industry-sponsored clinical development
- Most patients receive no treatment or only symptomatic therapy
- Surgical resection or stereotactic radiosurgery not always feasible because of location of lesion and is not curative

Symptomatic US + EU5 patients

~360,000

Source: Angioma Alliance ; Flemming KD, et al., Population-Based Prevalence of Cerebral Cavernous Molformations in C 28892932: PMCID: PMC5647645 : Salealer S, et al Cerebral Cavernous Molformations : An Undate on Prevalence, Molec

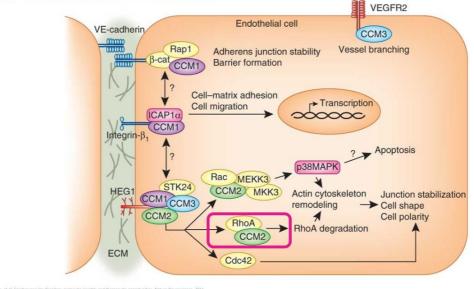
Clinical: CCM Therapeutic Approach to Cerebral Cavernous Malformations (CCM)



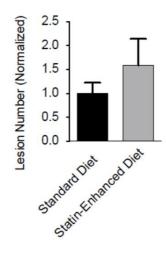
Novel therapeutic approach

- Symptoms associated with both increased size of lesions, but also inflammation or activation of lesions within the immunopriviledged environment of the brain
- Lesions arise from the capillary bed and are not high-pressure (e.g. the lesion growth is unlikely to be primarily driven by the *law of Laplace*)
- The Recursion Vascular Stability Hypothesis:
 - Eliminating the lesions may <u>not</u> be required for significant patient benefit
 - Slowing or halting the growth of the lesions while mitigating lesion leakiness and endothelial cell activation to halt the feed-forward inflammatory reaction may mitigate some symptoms and be beneficial to patients

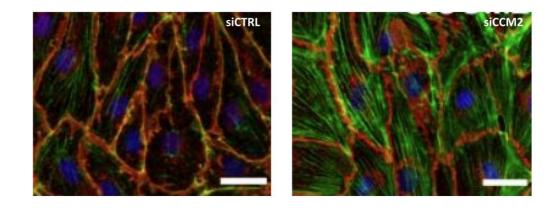
Clinical: CCM CCM – State of the Field in 2011



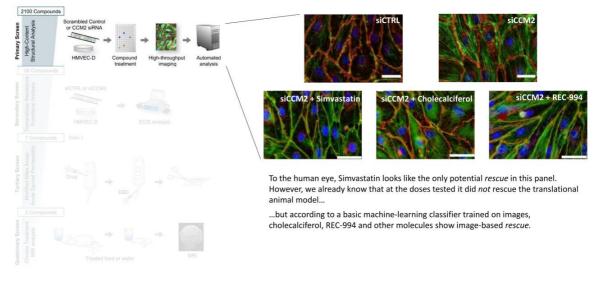
Clinical: CCM CCM – A Traditional Approach Fails



Clinical: CCM CCM – An Unbiased Approach Using ML on Cellular Images?



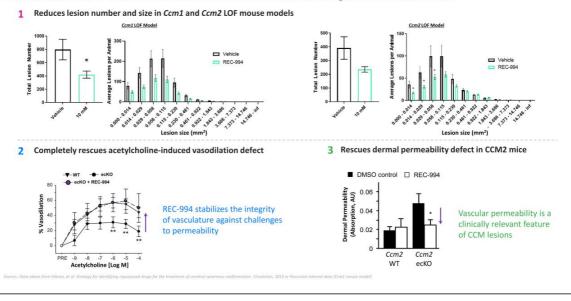
Clinical: CCM CCM – Applied prototyping of the RecursionOS



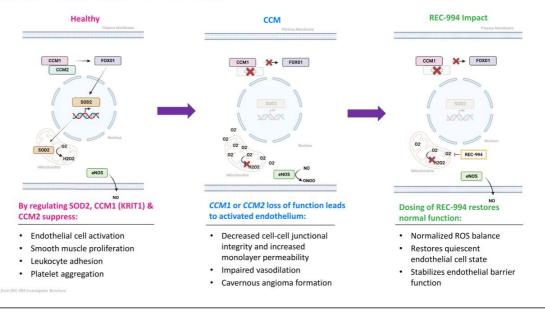
Clinical: CCM

Further Confidence : Preclinical Studies Confirm Insight

Preclinical Studies: REC-994 reduces lesion burden and ameliorates vascular defects in genetic mouse models of CCM



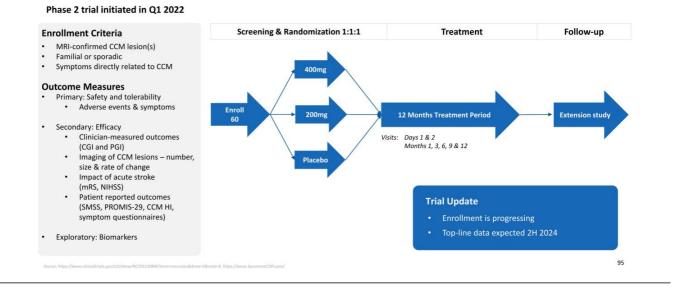
Clinical: CCM REC-994 – Mechanism of Action



Clinical: CCM Further Confidence : Clinical Studies Confirming Safety REC-994 Phase 1 Studies - well-tolerated with no dose-dependent adverse events in SAD and MAD

MAD Study	Placebo	50 mg	200 mg	400 mg	800 mg
Total Number of TEAEs	5	0	10	4	15
Total Subjects with ≥ one TEAE	4	0	3	3	4
Severity					
Mild	3	0	3	3	3
Moderate	1	0	0	0	1
Severe	0	0	0	0	0
Relationship to Study Drug					
None	3	0	0	2	1
Unlikely	1	0	1	1	2
Possibly	0	0	0	0	0
Likely	0	0	2	0	1
Definitely	0	0	0	0	0
Total Number of SAEs	0	0	0	0	0
Total Subject with ≥ one TEAE	0	0	0	0	0
Discontinued Study Drug Due to AE	0	0	0	0	0

Clinical: CCM SYCAMORE Clinical Trial : REC-994 Phase 2 Underway



REC-2282 for the Treatment of Progressive Neurofibromatosis Type 2 (NF2) Mutated Meningiomas

HDAC Inhibitor
Small Molecule
NF2 Mutated Meningiomas
Phase 2/3
Fast Track; US and EU Orphan Drug
Recursion OS

Clinical: NF2 Disease Overview : Neurofibromatosis Type 2 (NF2)



Ricki-living with NF2

Patient Population – Large and Diagnosable

- Rare autosomal dominant tumor syndrome resulting from biallelic inactivation of the NF2 gene which leads to deficiencies in the tumor suppressor protein merlin
- NF2 can be inherited or spontaneous (>50% of patients represent new mutations); up to 1/3 are mosaic
- CNS manifestations: meningiomas and vestibular schwannomas; mean age at presentation: ~20 years

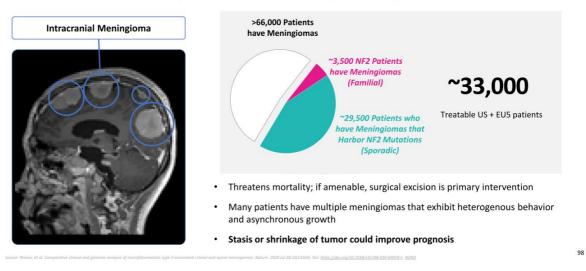
No Approved Medical Therapy

- No approved drugs for NF2
- Surgery is standard of care (when feasible)
- Location may make complete resection untenable, leading to hearing loss, facial paralysis, poor balance and visual difficulty

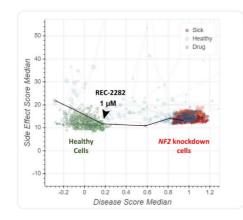
urce: https://rorediseases.org/rore-diseases/neurofibromatasis-2

Clinical: NF2 Disease Overview : Neurofibromatosis Type 2 (NF2) Meningiomas

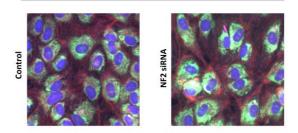
- · Most tumors are benign and slow growing but location in CNS leads to serious morbidity or mortality
- Prognosis is adversely affected by early age at onset, a higher number of meningiomas and having a truncating mutation



Clinical: NF2 Insight from OS : REC-2282 Rescued Loss of NF2



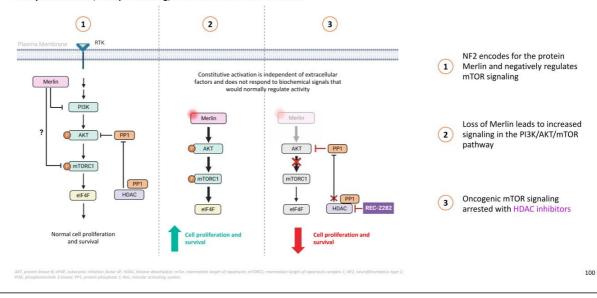
REC-2282 identified as rescuing HUVEC cells treated with NF2



HUVEC, human umbilical vein endothelial cells; NF2, neurofibromatosis type 2; siRNA, small interfering RNA

Clinical: NF2 REC-2282 – Mechanism of Action

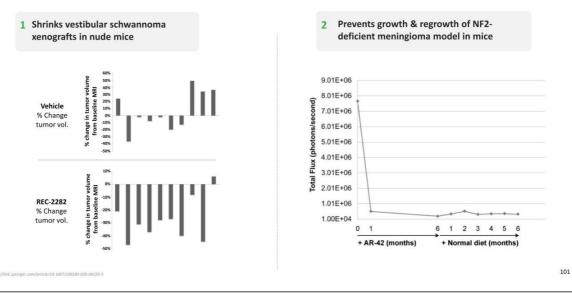
Orally Bioavailable, CNS-penetrating, Small Molecule HDAC Inhibitor



Clinical: NF2

Further Confidence : Preclinical Studies Confirming Insight

REC-2282 preclinical studies demonstrated clear in-vivo efficacy in multiple NF2 tumor types



Clinical: NF2 Further Confidence : Prior Studies Suggestive of Potential Therapeutic Benefit

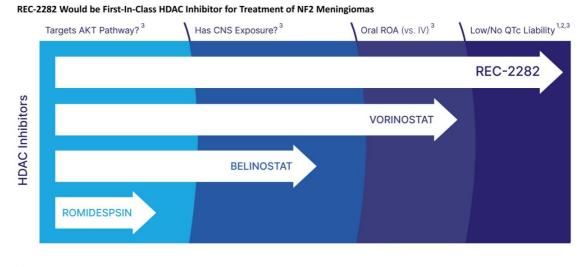
- Evaluable Patients: CNS Solid Tumors: NF2 N=5; Non-CNS Solid Tumors: N=10
- PFS: CNS solid tumors = 9.1 months; Non-CNS solid tumors = 1.7 months
- Best overall response = SD in 8/15 patients (53%; 95% Cl 26.6–78.7)
- Longest duration of follow-up without progression: > 27 months (N=1)
- Most common AEs: cytopenia, fatigue, nausea



	Multiple investigator-initiated studies in oncology indications
Ŵ	Lengthy human clinical exposure in NF2 – multiple patients on drug for several years
	Well-characterized side effect profile
wi	th a drug-like profile
wi	
wi fiil,	Established and scalable API manufacturing process
wi	Established and scalable API manufacturing

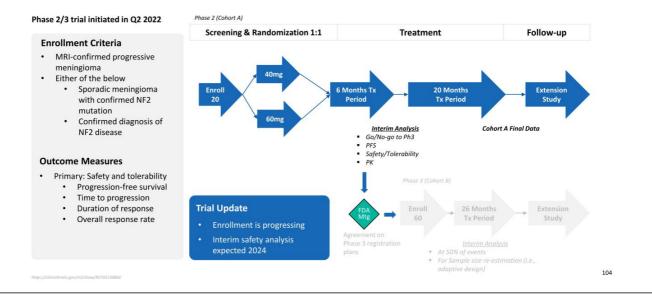
Well understood clinical safety ...

Clinical: NF2 REC-2282 Appears Well Suited for NF2 vs. Other HDAC inhibitors



¹Storov DW, et al. A phase 1 trial of the HDM inhibitor AR-42 m patients with multiple myeloma and T- and B-cell puppinghomas. Leak lymphoma. 2017 DCt:SRIDI:2110:2110:2138. ¹Collier KA: et al. A dynase 1 trial of the HDM inhibitor AR-42 m patients with memolymomators have 2-associated te norms and advoced solid patientimics. Encore Diemother Pharmacol. 2021 Mar: 87763-969.

Clinical: NF2 POPLAR Clinical Trial : REC-2282 Phase 2/3 Underway



REC-4881 for the Treatment of Familial Adenomatous Polyposis (FAP)

Target / MOA	MEK Inhibitor		
Molecule Type	Small Molecule		
Lead Indication(s)	Familial Adenomatous Polyposis		
Status	Phase 2		
Designation(s)	Fast Track; US and EU Orphan Drug		
Source of Insight	Recursion OS		

Clinical: FAP Disease Overview : Familial Adenomatous Polyposis



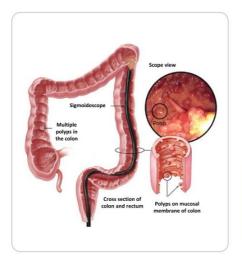
Patient Population – Easily Identifiable

- Autosomal dominant tumor predisposition syndrome caused by a mutation in the APC gene
- Classic FAP (germline mutation) :
 - Hundreds to thousands of polyps in colon and upper GI tract
 - Extraintestinal manifestations (e.g. desmoid tumors)
 - 100% likelihood of developing colorectal cancer (CRC) before age 40, if untreated



Diagnosed US + EU5 patients

Clinical: FAP Disease Overview : Familial Adenomatous Polyposis – Standard of Care



No Approved Medical Therapy

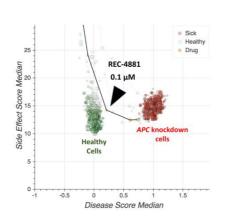
- Standard of care: colectomy during adolescence (with or without removal of rectum)
- Post-colectomy, patients still at significant risk of polyps progressing to GI cancer
- Significant decrease in quality-of-life post-colectomy: continued endoscopies and surgical intervention

"Despite progress with surgical management, the need for effective therapies for FAP remains high due to continued risk of tumors post-surgery"

- Niloy Jewel Samadder, MD, Mayo Clinic

Clinical: FAP Insight from OS : Rescued Loss of APC, Inhibited Tumor Growth

REC-4881 rescued phenotypic defects of cells with APC knockdown

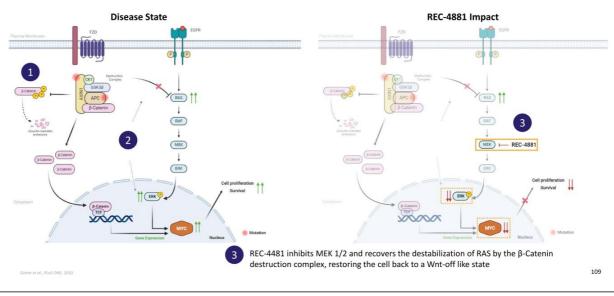


- Compared to thousands of other molecules tested, REC-4881 rescued phenotypic defects substantially better (including better rescue than other MEK inhibitors) for APC specific knockdown
- Findings validated in tumor cell lines and spheroids grown from human epithelial tumor cells with APC mutation
 - 1,000x more selectivity in tumor cell lines with *APC* mutation
 - Inhibited growth and organization of spheroids

Clinical: FAP

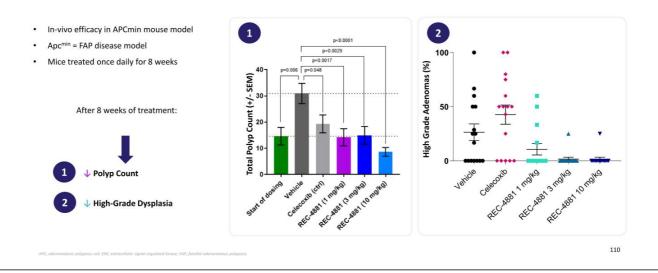
MoA : REC-4881 blocks Wnt mutation induced MAPK signaling

Orally Bioavailable, Small Molecule MEK Inhibitor



Clinical: FAP

Further Confidence : Preclinical Studies Confirming Reduction in Polyp Count and High-Grade Dysplasia

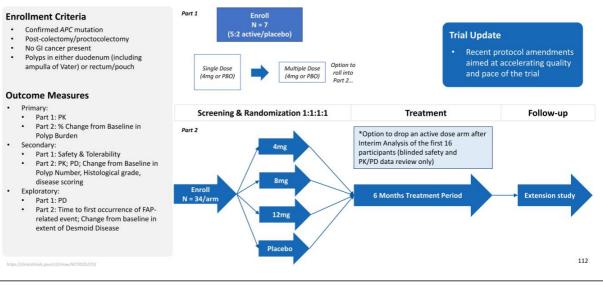


Clinical: FAP Further Confidence : Clinical Data Generated by Recursion

	Accomplished
REC-4881-101: Single-center, double-blind, placebo- controlled, dose-escalation study in healthy volunteers	Recursion formulation yields exposures comparable to Takeda
 Group 1 (n=13): Food effect crossover (REC-4881 4 mg/PBO [fed/fasted]), followed by single dose REC-4881 8 mg/PBO [fed] Group 2 (n=12): Matched single ascending dose (REC-4881 4 mg/PBO; REC-4881 8 mg/PBO; REC-4881 12 mg/PBO) 	No food effect
	Dose proportional increases in exposure
	Similar to C20001 study, observed pERK inhibition (i.e. target engagement) at 8 mg and 12 mg doses
	Acceptable safety profile

Clinical: FAP TUPELO Clinical Trial : REC-4881 for FAP Phase 2 Underway

Phase 2 trial initiated in Q3 2022



REC-4881 for the Treatment of Solid Tumors with AXIN1/APC Mutant Cancers

Target / MOA	MEK Inhibitor		
Molecule Type	Small Molecule		
Lead Indication(s)	Solid Tumors with AXIN1/APC Mutant Cancers		
Status	Phase 1b/2		
Source of Insight	Recursion OS		

Clinical: AXIN1/APC Disease Overview : AXIN1/APC mutant cancers



Gross morphology of HCC tumor

¹Bugter, J.M., et al. Nat Rev Cancer, 2021, **21**, pp.5-21

- Sustained Wnt signaling is a frequent driver event found across a wide variety of solid tumors
- Dysregulation of β-catenin destruction complex due to inactivating mutations in AXIN1/APC leads to sustained Wnt signaling promoting cancer progression and survival¹
- AXIN1/APC mutant solid tumors are considered clinically aggressive and resistant to standard treatments

"Nothing in HCC has immediate therapeutic relevance and the most common mutations are TERT, TP53, and Wnt (CTNNB1/AXIN1/APC) and combined these alterations define almost 80% of patients and are not targetable"

- KOL, Clinical Investigator, Texas

Clinical: AXIN1/APC Disease Overview : AXIN1/APC mutant cancers

Tumor Type	Alteration Frequency ¹	Treatable Population ^{2,3} (US+EU5)	
LUAD	11%	10,000	
нсс	12%	7,600	- ·
Prostate	11%	5,600	
Bladder	8%	3,700	
Esophageal	7%	2,000	•
Endometrial	12%	1,500	
PDAC	2%	1,000	
Ovarian	1%	350 —	_
TNBC	2%	200	
		~32,000	

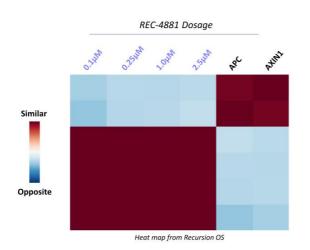
Flexible Patient Selection Strategy and Study Design

- AXIN1 and APC genes covered by commercially available NGS panels and liquid biopsy detection assays
- FDA guidance supports utility of ctDNA as patient selection for the detection of alterations for eligibility criteria and as a stratification factor for trials enrolling marker-positive and marker-negative populations⁴
- Multiple tumor types will inform study design and patient selection

Preclinical data with REC-4881 at clinically relevant exposures in HCC and Ovarian PDX mouse
models gives confidence to pursue other mutant cancer types

Represents higher of either AXINI or APC alteration frequency; obtained from chioportal.org. ²Represents 2L prevalan

Clinical: AXIN1/APC Insight from OS : Novel Insight around Established MoA

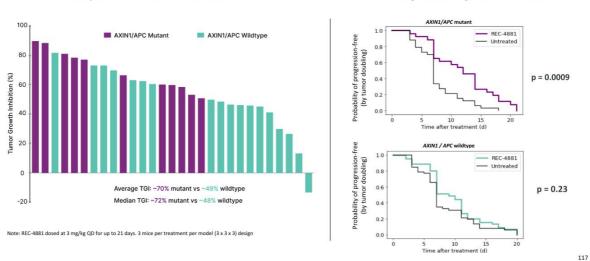


Hypothesis: Rescue of *AXIN1* may impact tumor progression and/or restore checkpoint sensitivity in cancers driven by *AXIN1* loss

Recursion Differentiation: REC-4881 rescues tumor suppressor genes *APC* and *AXIN1*

- APC and AXIN1 are negative regulators of Wnt signaling
- Both proteins form part of the B-catenin destruction complex. Strong clustering suggests map recapitulation of this biology

Clinical: AXIN1/APC Further Confidence : Preclinical Studies Confirming Insight



Efficacy found in In Vivo Mice Models ...

... Led to Significant Progression Free Survival

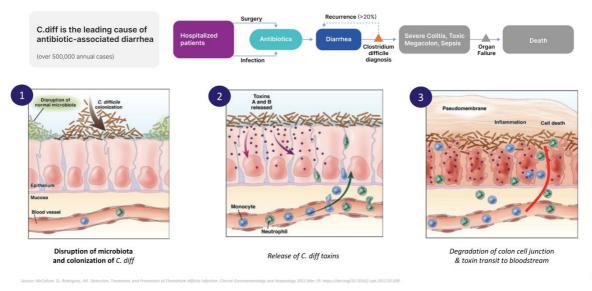
Clinical: AXIN1/APC Next Steps

- Finalize design of a Phase 1b/2 biomarker-enriched trial
- Initiate Phase 1b/2 trial in select tumor types in early 2024
- Identify suitable partners for genetic testing capabilities
- Evaluate REC-4881 in combination with targeted and/or immune modulating agents

REC-3964 for the Treatment of Clostridium Difficile Infection

Selective C. diff Toxin Inhibitor
Small Molecule
Clostridium Difficile Infection
Phase 1
Recursion OS

Clinical: C. diff Disease Overview : Clostridium Difficile Infection (CDI)



Clinical: C. diff Disease Overview : Clostridium Difficile Infection (CDI)



Colleen - lived with rCDI

urce, CDC *NAAT = Nucleic Acid Amplification Test; **rCDI = recurrent CDI

Patient Population – Large, Diagnosable and Easy to Identify

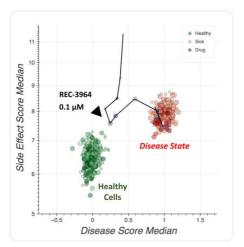
- Symptoms caused by clostridium difficile tissue-damaging toxins released in the colon
- Patients who experience >3 unformed stools are diagnosed via NAAT* for toxin gene or positive stool test for toxins
- Patients who are at highest risk are those on antibiotics, and frequently visit hospitals or are living in a nursing home
- More than 80% of cases occur among patients age 65 or older

Large, Unmet Need with Significant Cost Burden

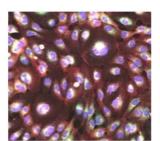
- RCDI** occurs in 20-30% of patients treated with standard of care
 - 40% of those patients will continue to recur with 2+ episodes
- >29,000 patients die in the US each year from CDI
- Cost burden of up to \$4.8bn annually



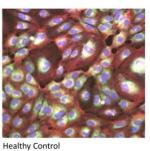
Clinical: C. diff Insight from OS : REC-3964 Rescued Cells Treated with C. diff Toxins



REC-3964 identified as a NCE that demonstrated strong rescue in HUVEC cells treated with C. diff toxin



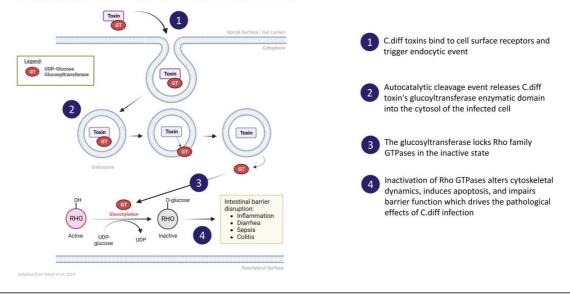
C. diff toxin B phenotype



control

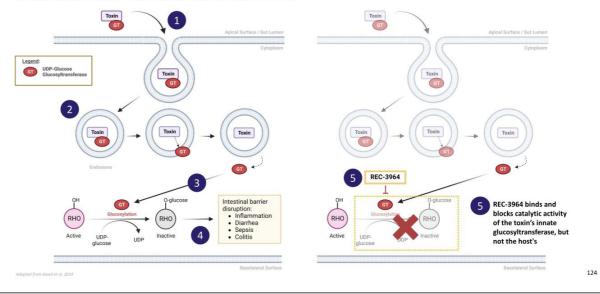
Clinical: C. diff REC-3964 : Selective Inhibitor of C. diff Toxins

REC-3964 is Recursion's 1st Small Molecule NCE to Reach the Clinic

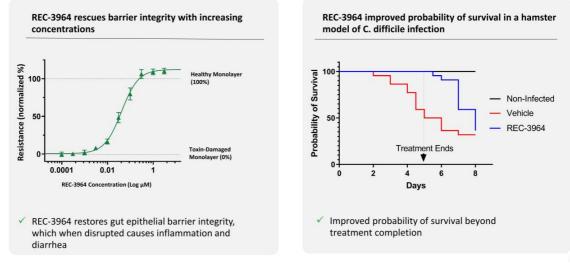


Clinical: C. *diff* REC-3964 : Selective Inhibitor of C. diff Toxins

REC-3964 is Recursion's 1st Small Molecule NCE to Reach the Clinic



Clinical: C. diff Further Confidence : Preclinical Studies Confirmed Recursion OS Insight



Clinical: C. diff Clinical Trial : REC-3964 Phase 1 Study Underway

Phase 1 FIH SAD/MAD Trial initiated in Q3 2022

Trial Design

Randomized, Double-blind Trial

Population

- Healthy SubjectsSAD (n = 56)
- MAD (n = 50)

Primary Objectives

- ✓ Assess the safety & tolerability of SAD and MAD of REC-3964
- ✓ Evaluate the PK profile of REC-3964 after single and multiple doses

Trial Update

- Enrollment is progressing
- In several SAD cohorts and at least one MD cohort, REC-3964 has been extremely safe and
- Complete safety and PK data readout expected 2H 2023

Partnerships

Matt Kinn Senior Vice President of Business Development

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How we create value using our maps of biology and chemistry

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Our existing partnerships represent some of the most significant scientific collaborations in biopharma

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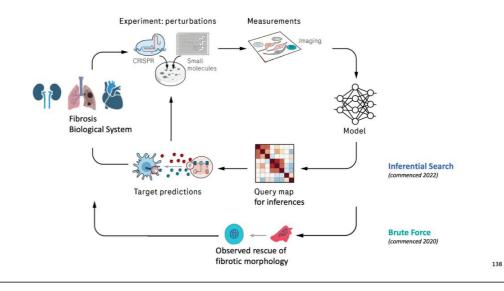


- \$30M upfront and \$50M equity investment
- Up to or exceeding \$1.2B in milestones for up to or exceeding 12 programs
- Mid single-digit royalties on net sales
- Recursion owns all algorithmic improvements



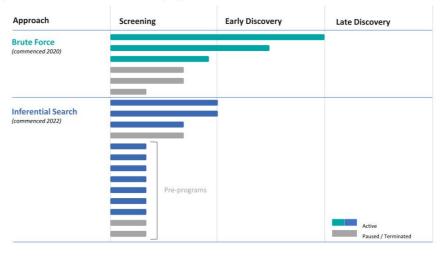
- \$150M upfront and up to or exceeding \$500M in research milestones and data usage options
- Up to or exceeding \$300M in possible milestones per program for up to 40 programs
- Mid to high single-digit tiered royalties on net sales
- · Recursion owns or co-owns all algorithmic improvements

We are leveraging the Recursion OS in multiple ways to identify novel fibrosis-relevant biology



Multiple programs advancing in parallel to near-term milestones

Transition to Inferential Search has accelerated new program initiation in 2022



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Our existing partnerships represent some of the most significant scientific collaborations in biopharma

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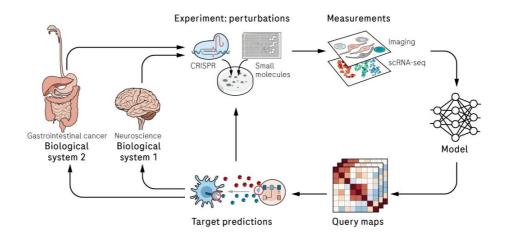


- \$30M upfront and \$50M equity investment
- Up to or exceeding \$1.28 in milestones for up to or exceeding
 12 programs
- Mid single-digit royalties on net sales
- Recursion owns all algorithmic improvements



- Mid to high single-digit tiered royalties on net sales
- · Recursion owns or co-owns all algorithmic improvements

Under our collaboration with Roche & Genentech, we are creating multimodal maps of cellular biology to elucidate novel targets and starting points





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Financial position – strong yet prudent expansion

• Cash and cash equivalents

- Currently projecting ~\$550M at the end of 2022
- Operating costs and expenses
 - Currently projecting ~\$275-295M in 2022
 - Based on current operations, we project relatively flat operating costs and expenses in the near term
- Revenue
 - Currently projecting ~\$30-45M in 2022
 - **Potential for increased revenue** in the near-term from the following sources:
 - Potential partnership option exercises
 - Potential additional partnership(s)
 - Revenue recognition from existing partnerships

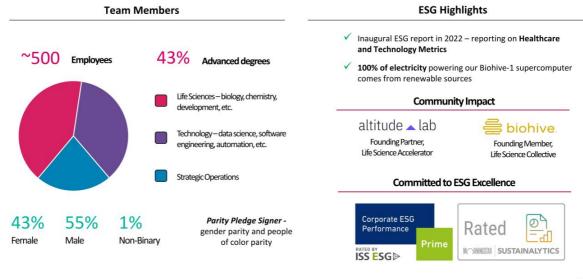
Condensed Consolidated Statements of Operations

	Three months ended September 30		Nine months ended September 30	
(Unaudited, in thousands)	2022	2021	2022	2021
Revenue				
Operating revenue	\$ 13,053	\$ 2,500	\$ 26,005	\$ 7,500
Grant revenue	107	34	162	145
Total revenue	\$ 13,160	\$ 2,534	\$ 26,167	\$ 7,645
Operating costs and expenses				
Cost of revenue	\$ 15,409	-	\$ 37,435	÷
Research and development	40,836	33,246	111,716	86,979
General and administrative	19,488	15,690	61,761	38,481
Total operating expenses	\$ 75,733	\$ 48,936	\$ 210,912	\$ 125,460
Loss from operations	(\$62,573)	(\$46,402)	(\$184,745)	(\$117,815)
Other income (loss), net	2,128	(1,026)	2,761	(3,731)
Net loss	(\$60,445)	(\$47,428)	(\$181,984)	(\$121,546)

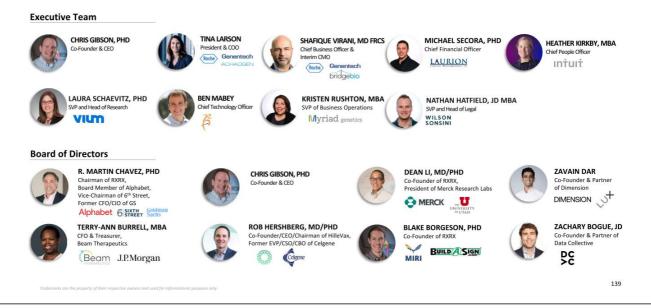


Funding history – uniting the worlds of tech and bio investing





Our leadership team brings together experience & innovation to lead TechBio



What to watch for at Recursion

Upcoming Potential Milestones

Near-Term

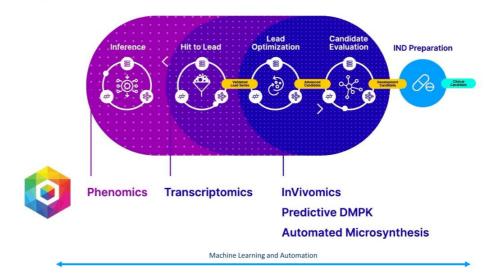
- Potential option exercises for partnership programs
- Potential option exercises for map building initiatives or data sharing
- Potential for additional partnership(s) in large, intractable areas of biology and / or technological innovation
- Ph1 clinical trial readout for Clostridium difficile Colitis program expected 2H 2023
- Potential for additional INDs and clinical starts, including Ph1b/2 trial initiation for AXIN1/APC program
- Potential for consolidation of technologies, talent and assets to accelerate the Recursion OS

Medium-Term

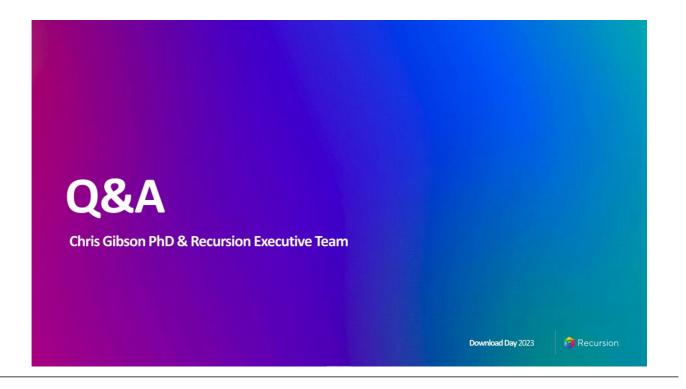
- Multiple POC readout(s) for Al-discovered programs
 - NF2 interim safety analysis expected 2024
 - CCM top-line data expected 2H 2024
- Potential for additional INDs and clinical starts
- Potential option exercises for partnership programs
- Potential option exercises for map building initiatives or data sharing
- Potential additional partnership(s) in large, intractable areas of biology and / or technological innovation
- Recursion OS moves towards autonomous map building and navigation with digital and micro-synthetic chemistry

Strong Financials ~\$550M in cash and cash equivalents at the end of 2022 with potential for increased revenue in the near term

Continuing to mature the TechBio value proposition – multiple cycles of learning and iteration



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Zavain Dar Director of Recurison

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