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 8, 2024

RECURSION PHARMACEUTICALS, INC.

(Exact name of registrant as specified in its charter)

Delaware

(State or other jurisdiction of incorporation)

001-40323 (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).

46-4099738 (I.R.S. Employer Identification No.) 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 7.01. Regulation FD Disclosure.

On January 8, 2024, Recursion Pharmaceuticals, Inc. (the "Company") released an updated investor presentation. The investor presentation will be used at the JP Morgan Healthcare Conference and from time to time in meetings with investors. A copy of the presentation is attached hereto as Exhibit 99.1.

The information furnished in this Item 7.01 (including Exhibit 99.1), shall not be deemed "filed" for purposes of Section 18 of the Securities Exchange Act of 1934, as amended (the "Exchange Act"), or otherwise subject to the liabilities of that section, nor shall it be deemed incorporated by reference in any filing under the Securities Act of 1933, as amended, or the Exchange Act, except as expressly set forth by specific reference in such filing.

Item 9.01. Financial Statements and Exhibits.

 thibits

 Exhibit Number
 Description

 99.1
 Investor presentation of Recursion Pharmaceuticals, Inc. dated January 8, 2024.

 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 8, 2024.

RECURSION PHARMACEUTICALS, INC.

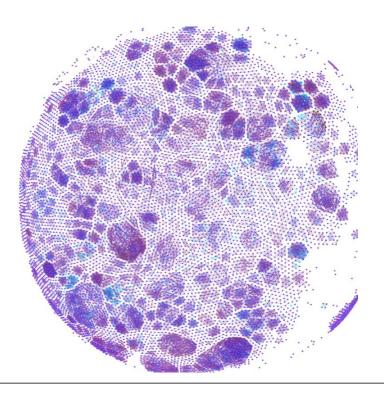
By: /s/ Michael Secora

Michael Secora Chief Financial Officer



Decoding Biology To Radically Improve Lives

January 2024



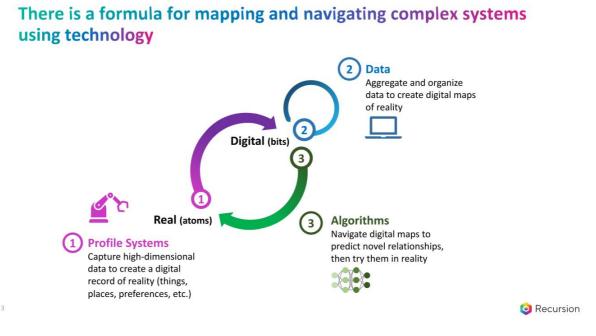
Disclaimers

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 outcomes and benefits expected from the Tempus partnership, including our ability to leverage the datasets acquired through the license agreement into increased machine learning capabilities and accelerate clinical trial enrollment; outcomes and benefits expected from the Enamine partnership, including the generating and co-branding of new chemical libraries; our planned expansion of the BioHive supercomputer capabilities; outcomes and benefits from licenses, partnerships and collaborations, including option exercises by partners and additional partnerships and ability to house tools on the BioNeMo Marketplace; the potential for additional partnerships and making data and tools available to third parties; advancements of our Recursion OS; outcomes and benefits expected from the Large Language Model-Orchestrated Workflow Engine (LOWE); the occurrence or realization of any near- or medium-term potential milestones; the initiation, timing, progress, results, and cost of our research and development programs and our current and future preclinical and clinical studies, including timelines for data readouts, 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 Annual Report for the Fiscal Year ended December 31, 2022, on Form 10-K and our most recent Quarterly Report on Form 10-Q. 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, whether as a result of new information, future events or otherwise

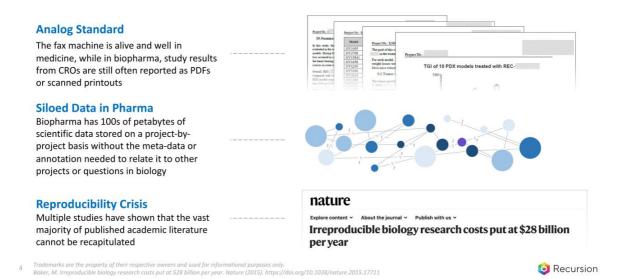
Certain information contained in this presentation relates to or is based on studies, publications, surveys and other data obtained from third-party sources and the company's own internal estimates and research. While the company believes these third-party sources to be reliable as of the date of this 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.

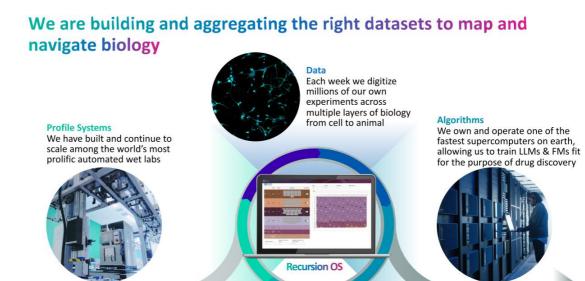
Any non-Recursion logos or trademarks included herein are the property of the owners thereof and are used for reference purposes only.

Recursion



Data roadblocks make mapping and navigating biology difficult

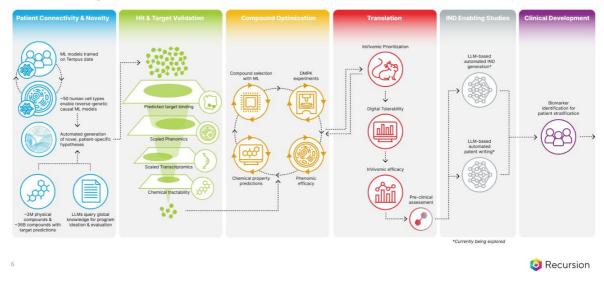




🧿 Recursion

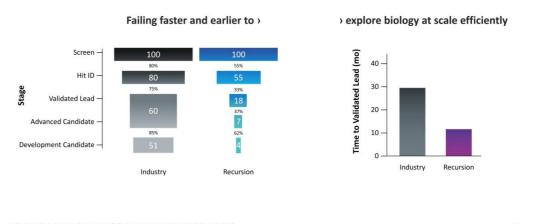
d and scaled clinic

The Recursion OS combines many tools to industrialize drug discovery

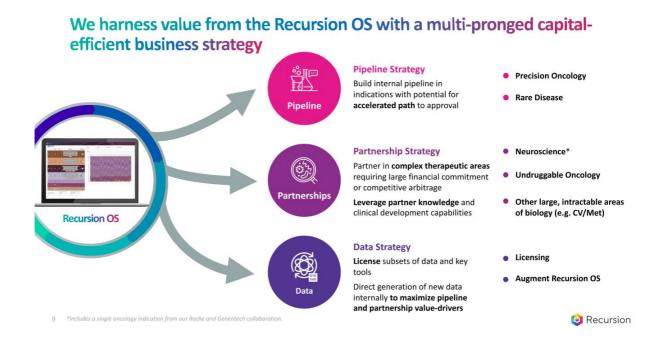


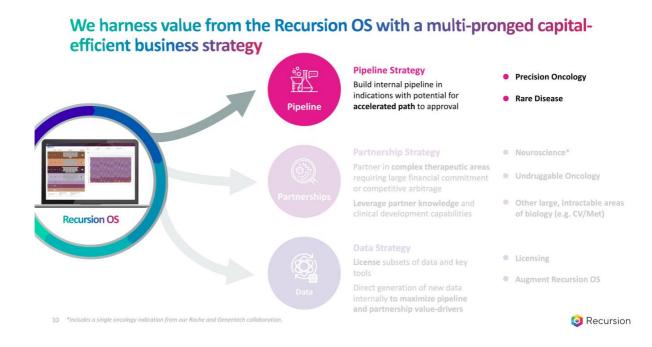


The Recursion OS helps us map and navigate biology to shift drug discovery from bespoke science to scaled engineering

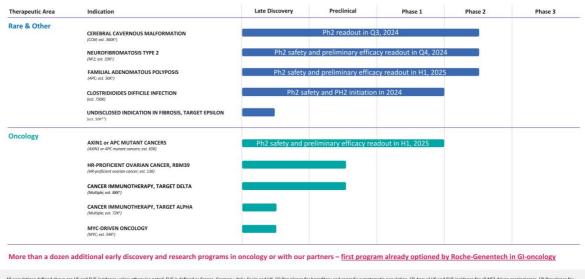


8 Preliminary data shown is the average of all our programs since late 2017 through 2023. All industry data adapted from Paul, et al. Nature Reviews Drug Discovery. (2010) 9, 203–214

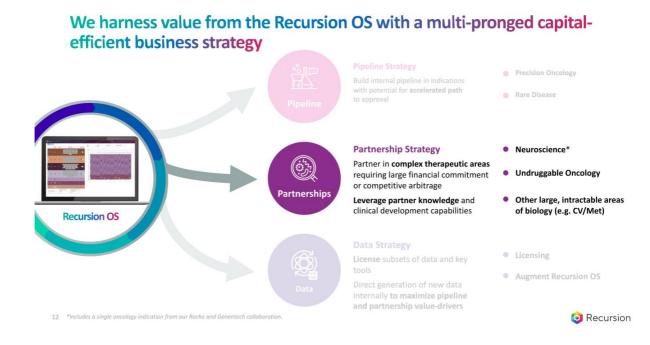




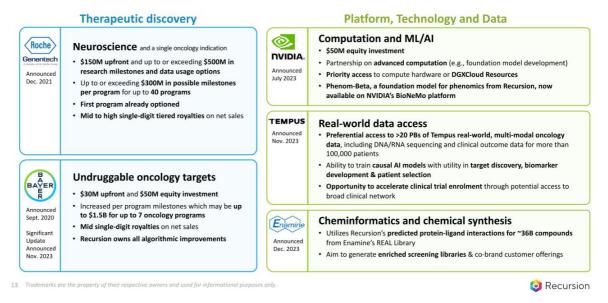
Our pipeline reflects the scale and breadth of our approach



All populations defined above are US and EUS incidence unless otherwise noted. EUS is defined as France. Germany, Italy, Spain and UK, (1) Prevalence for hereditary and spondic symptomatic population. (2) Annual US and EUS incidence for all NF2-driven meningionas. (3) Prevalence for adult and pediatric population. (4) Our program has the potential to address several indications (5) incidence for US only. (6) Our program has the potential to address several indications driven by MYC alterations, totaling 54,000 patients in the US and EUS annually. We have not finalized a transfer poduct profile for a specific indication.



Exciting scientific collaborations span biopharma, tech & data





Data

14 *Includes a single oncology indication from our Roche and Gen

Direct generation of new data

internally to maximize pipeline and partnership value-drivers Augment Recursion OS



TechBio Origins: Point Solutions

Most BioTech companies have built a point solution - they've developed a tool, process, model or analysis to accomplish an important step in drug discovery.

This is how we started too.

But discovering and developing medicines requires hundreds of steps...

Cell Painting, a high-content image-based assay for morphological profiling using multiplexed fluorescent dyes

Mark-Anthony Bray¹, Shantanu Singh¹, Han Han², Chadwick T Davis², Blake Borgeson², Cathy Hartland³, Maria Kost-Alimova³, Sigrun M Gustafsdottir³, Christopher C Gibson² & Anne E Carpenter¹

¹Imaging Flatform, Broad Institute of Herrord and MIT, Cambridge Manachustts, USA, "Recorriso Pharmacenticals, Shi Lalo: Car; Utak, USA, "Contor for the Science of Thorspotton, Broad Institute of Herrord and MIT, Cambridge, Manachustts, USA, Cartropondence should be address to CCG. I. (And, Spherbraneinsphermacent) and A.E.C. (2016) Combinational Academic Science and Academic Academic

Published online 25 August 2016: doi:10.1038/mont 2016.105

Pathole nine 3X Augus 2016, earlies 1010/Augus 2016.155 In morphological, porfiling, spuntiative data are extended from microscopy images of cells to identify biologically relevant apprimenta unity of cell histing, authorized data are extended profiling assign that multiplotes in Educational and a securition of channels, to reveal eight homoly velocant cellular components or organeties. Cells are plated in multively plates, partupes channels, to reveal eight homoly velocant cellular components or organeties. Cells are plated in multively plates, partupes identifies individual cells and massures -1,500 morphological features (carlou measures of size, shape targe analysis identifies individual cells and massures -1,500 morphological features (carlou measures of size, shape tarture, interviet on 0) to produce architory entit that to suitable of the detection of subtle planetypes. Profiles of cell populations treated different experimental perturbations can be compared to suit many goals, such as identifying signatures of dises Cell culture and image acquisition takes 2 weeks; feature extraction and data analysis take as additional 1-2 weeks.

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(a) discuss morphological profiling (also kn filing), contrast it with conventional im

INTRODUCTION Phenotypic screening has been tremendously powerful for identifying novel small molecules as probes and potential thera-pericis, and for identifying grentic regulations of many biolegations of many biological processed³⁻¹. High-throughput microscopy has been a particu-lent frontid type of phenotypic screening it is often called the and and and an experiment of the start are focused on quantifi-content analysis because of the high information content that and be observed in image³. However, most large-scale integration that is usually necessary for problem specific of quantitative data about collutar state remain matryped. In this arches, we detail a protocol for the Cell Painting assay, which is a generalizable and broadly applicable method for access-tion that arches we detail a protocol for the Cell Painting assay, which is a generalizable and broadly applicable method for acces-tion that is and the object of information about collutar strate reconstry to generate these data have advanced rapidly and here reconstry to generate these data have advanced rapidly and here reconstry to generate these data have advanced rapidly and here reconstry to generate these data have advanced rapidly and here reconstry to generate these data have advanced rapidly and here reconstry to generate these data have advanced rapidly and here reconstry to generate these data have advanced rapidly and here reconstry to generate these data have advanced rapidly and here reconstry to generate these data have advanced rapidly and here reconstry to generate these that have advanced rapidly and here reconstry to generate these that have advanced rapidly and here reconstry to generate these static have advanced rapidly and here reconstructures as well a advanced the theorem statis harmed a statistic accession of the here match and the constructures as well a advanced the theorem statistic here and between statistic and constructures as well a advanced the match and the constructures as well a advanced the the recons

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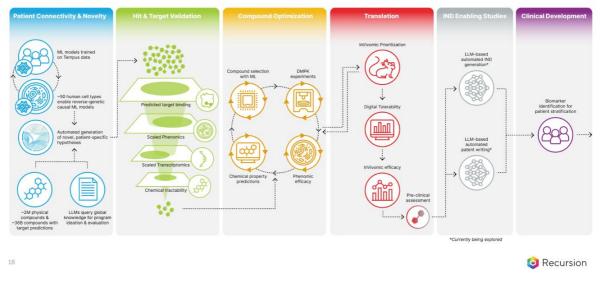
PROTOCOL

As these point solutions evolve they increase in complexity and scale

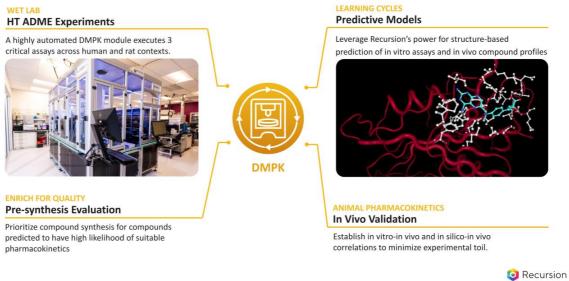
FOUNDATION MODELS AUTOMATION Phenom-1 High-throughput screening Groundbreaking models trained on >1 billion images and Our highly automated wet-labs systematically hundreds of millions of parameters learn to extract capture images of human cells in response to biologically meaningful signals from cell images different perturbations 1 1 Up to 2.2M experiments A conducted every week DIGITIZATION **PROFILING SYSTEMS** Maps of Biology & Chemistry Diverse biological and chemical inputs **Phenomics** We manipulate human cells with CRISPR/Cas9-Models infer relationships between all possible mediated gene knockouts, compounds, and other combinations of genes and compounds, recapitulating known biology and revealing novel insights reagents ~50 human cell types >5 trillion relationships ~2M physical compounds across multiple biological and chemical contexts Whole-genome CRISPR knockouts

(2) Recursion

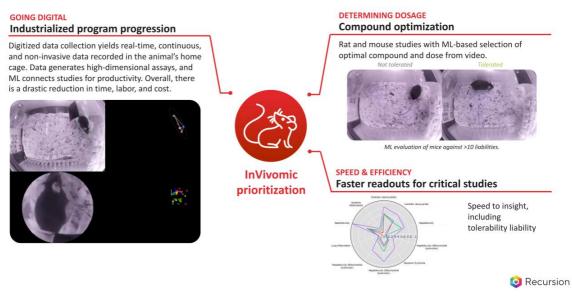
To truly industrialize drug discovery, point solutions must be integrated as modules across many diverse steps



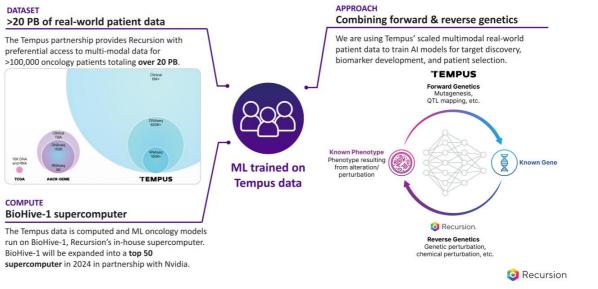
Each module is complex, and we continuously improve them



Utilizing each module requires specialized teams and expertise



We continuously add new modules to improve the Recursion OS



The result is a palette of ever-evolving sophisticated modules



We use different modules for different tasks: Find NCE for known target

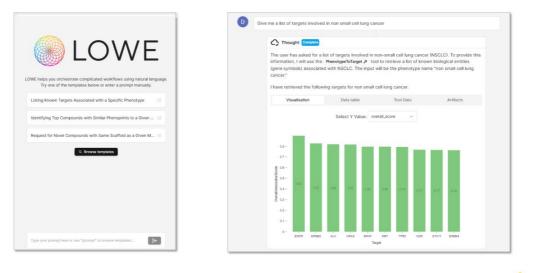


We use different modules for different tasks: Find novel target & drug it



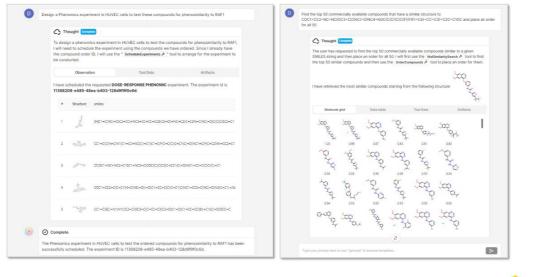


Static images taken from live software demonstration



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Static images taken from live software demonstration



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The Recursion OS is now more than a collection of point solutions accessible to expert users

Can be used by any of our scientists from the comfort of their faptop...
File Edit View Special

 Image: System Disk
 Image: System Disk

 Image: System Disk
 Image: System Disk

...it is increasingly integrated and accessible via a **Discovery User Interface** that can be used by any of our scientists from the comfort of their laptop...



2023 Successes

Pipeline

- Multiple Phase 2 trials began or continued enrolling patients
- Positive C Diff Phase 1 data
- Progress against multiple discovery and preclinical NCE programs moving towards the clinic

Platform

- LLMs deployed to automate significant portions of new program initiation
- Creation of Phenom-1, which we believe is the largest phenomics-based foundation model
- Predictions for ~36B ligand-protein interactions using MatchMaker
- Produced more than 1 Trillion hiPSC-derived neuronal cells since 2022
- Scaled multi-timepoint phenomics and transcriptomics

• Creation of LOWE (LLM Orchestrator Workflow Engine)

 Already testing and improving causal models using patientcentric data from Tempus collaboration

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Partnerships

- Roche-Genentech GI-oncology program option
- Bayer focus evolving to precision oncology
- In-licensed program from Bayer for novel target in fibrosis
- NVIDIA Partnership and Investment
- Tempus collaboration signed
- · Enamine collaboration signed

Business

- Cyclica and Valence acquisitions
- Expanded operations in SLC, Toronto & Montreal
- Announced expansion of Biohive capabilities (Top 50 supercomputer)
- Deliver with our team as One Recursion to continue as a leader of the TechBio industry

(2) Recursion

What to Watch for from Recursion: Potential Near-Term Milestones

- Potential for additional INDs
 - HR-Proficient Ovarian Cancer RBM39 in H2 2024
 - In-licensed program from Bayer (Target Epsilon) for a novel target in fibrosis
- Expected Ph2 Trial starts

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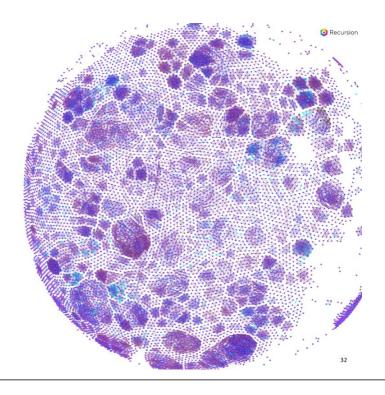
- Ph2 FPI for AXIN1 or APC mutant cancers program expected in Q1 2024
- Ph2 initiation for *C. difficile* Infection program in 2024
- Expected Ph2 readouts for AI-discovered programs
 - CCM readout expected in Q3 2024
 - NF2 safety & prelim efficacy expected Q4 2024
 - FAP safety & prelim efficacy expected H1 2025
 - AXIN1 or APC mutant cancers safety & prelim efficacy expected H1 2025

- Potential for option exercises for map building initiatives and partnership programs
- Potential for additional partnership(s) in large, intractable areas of biology (CV/Met)
- Potential to make some data and tools available to biopharma and commercial users
- Recursion OS moves towards autonomous discovery

Strong Financial Position ~\$390M in cash YE 2023

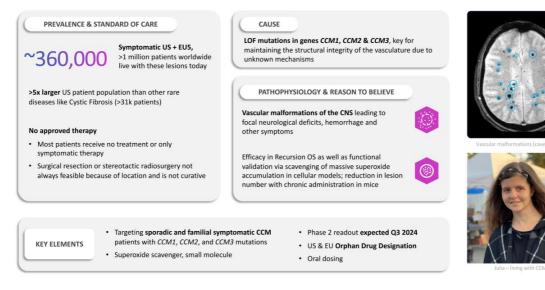
Cash refers to cash and cash equivalents and reflects a preliminary estimate at the end of Q4 2023





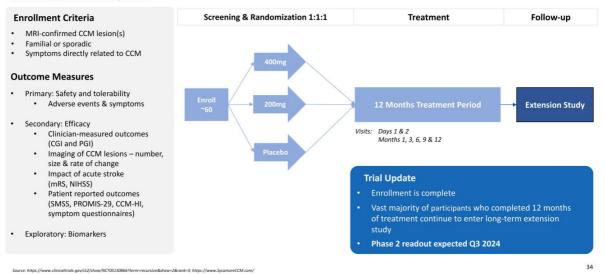
Appendix

SYCAMORE Clinical Trial : REC-994 for CCM Phase 2 Fully Enrolled



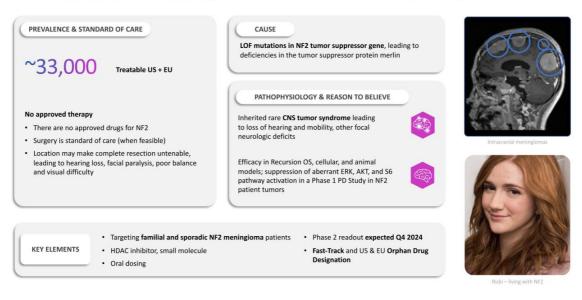
SYCAMORE Clinical Trial : REC-994 for CCM Phase 2 Fully Enrolled

Phase 2 trial initiated in Q1 2022



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POPLAR Clinical Trial : REC-2282 for NF2 Part A Underway



POPLAR Clinical Trial : REC-2282 for NF2 Part A Underway

Phase 2/3 trial initiated in Q2 2022

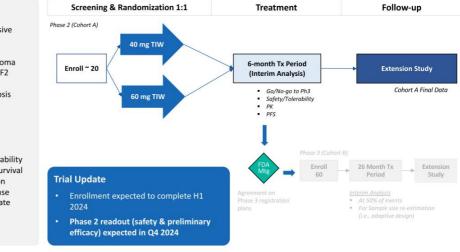
Enrollment Criteria

- MRI-confirmed progressive meningioma
- Either of the below
 Sporadic meningioma with confirmed NF2
 - with confirmed NF2 mutationConfirmed diagnosis
 - of NF2 disease

Outcome Measures

https://clinicaltrials.gov/ct2/show/NCT0513086

- Primary: Safety and tolerability
 - Progression-free survival
 - Time to progressionDuration of response
 - Overall response rate



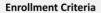
Clinical: FAP TUPELO Clinical Trial : REC-4881 for FAP Phase 2 Underway

Polyps throughout the GI tract with extremely Colectomy during adolescence (with or without removal of rectum) is standard of care Polyps throughout the GI tract with extremely Post-colectomy, patients still at significant risk of polyps progressing to GI cancer Efficacy in the Recursion OS showed specific MEK 1/2 inhibitors had an effect in context of APC LOF. Subsequent APC ^{min} mouse model showed potent reduction in polyps and dysplastic adenomas



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

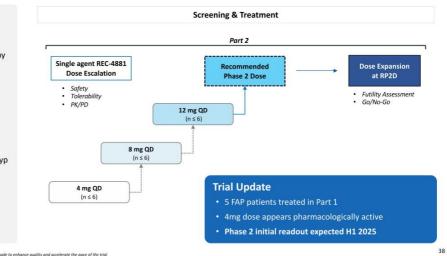
Part 2 FPI Expected H1 2024



- Confirmed APC mutation
- . ≥ 55 years old
- Post-colectomy/proctocolectomy
- No cancer present
- Polyps in either duodenum (including ampulla of vater) or rectum/pouch

Outcome Measures

- Primary:
 - Safety & Tolerability Change from baseline in polyp burden at 12 weeks
- RP2D
- Secondary:
 PK/PD



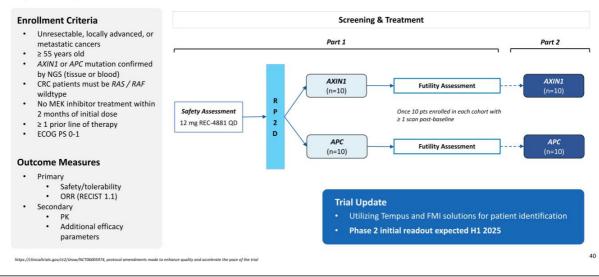
() Recursion

Clinical: AXIN1 or APC LILAC Clinical Trial : REC-4881 for AXIN1 or APC mutant cancers

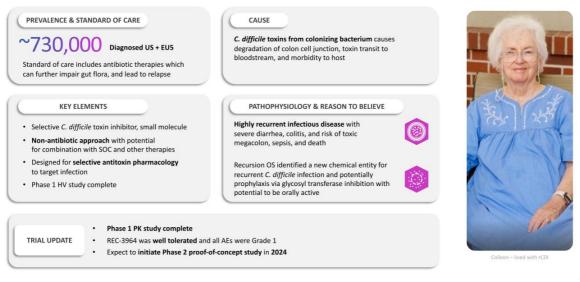
PREVALENCE & STANDARD OF CARE ~65,000 Treatable US + EUS	CAUSE LOF mutations in AXIN1 or APC tumor suppressor genes	S. C.Y.
Substantial need for developing therapeutics for patients harboring mutations in AXIN1 or APC, as these mutations are considered undruggable To our knowledge, REC-4881 is the only industry sponsored small molecule therapeutic designed to enroll solid tumor patients harboring mutations in AXIN1 or APC	PATHOPHYSIOLOGY & REASON TO BELIEVE Alterations in the WNT pathway are found in a wide variety of tumors and confer poor prognosis and resistance to standard of care Efficacy in the Recursion OS and favorable results in PDX models harboring AXIN1 or APC mutations vs wild-type leading to a significant PFS benefit in HCC and Ovarian tumors	
Targeting AXIN1 or APC mutant can Targeting AXIN1 or APC mutant can MEK inhibitor, small molecule Oral dosing	 FPI expected Q1 2024 Phase 2 initial readout expected H1 2025 	Gross morphology of HCC

Clinical: AXIN1 or APC LILAC Clinical Trial : REC-4881 PoC for AXIN1 or APC mutant cancers

Expect FPI in Q1 2024



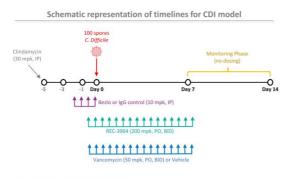
Clinical: C. difficile Clinical Trial : REC-3964 for C. difficile Phase 1 Study Complete



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

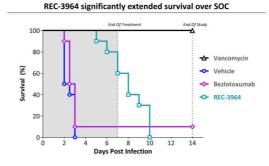
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REC-3964 is Superior to Bezlotoxumab in a Human Disease Relevant CDI Hamster Model



- N = 10 hamsters per group
- C. difficile strain 630 was used as genetic experiments confirmed virulence via toxin B¹
- Clinical observations were conducted from Day 0 to Day 7, with surviving animals monitored until Day 14

¹Lyras, D, et al. Nature, 2009, 458, pp.1176-1179.



- REC-3964 potently inhibits toxin B with residual activity against toxin A, while bezlotoxumab is specific to toxin B.
- Significant difference in probability of survival vs bezlotoxumab alone at the end of treatment (p<0.001, log-rank test)

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Recursion

Trial Design

• Randomized, Double-blind Trial

Population

- Healthy Participants
- SAD (n = 48)
 - 36 participants treated with REC-3964
 - 12 participants treated with placebo
- MAD (n = 42)
 - 34 participants treated with REC-3964
 - 8 participants treated with placebo

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

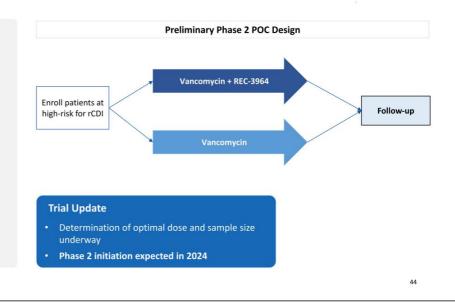
Phase 1 Topline

- REC-3964 oral administration was well tolerated by all subjects tested
 - ✓ 3% (n=1) of participants in SAD with drug-related AEs
 - 12% (n=4) of participants in MAD with drug-related AEs
 - All AEs were deemed Grade 1
 - No SAEs were observed
 - No discontinuations related to treatment
 - REC-3964 exhibited a favorable PK profile
 - ✓ Exposures (AUC) increased approximately dose-proportionally across the dose ranges tested (50 mg − 1200 mg)
 - ✓ Half-life ranged from ~7-10 hours; BID dosing expected to reach targeted trough concentrations

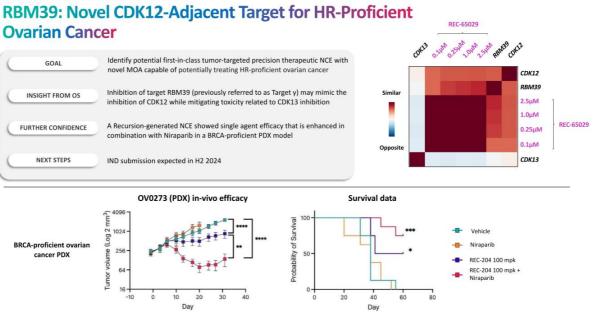
Clinical: C. difficile Planned Phase 2 Proof-of-Concept Trial Design

Development Approach

- Initial Phase 2 POC study to evaluate REC-3964 in combination with vancomycin
- Focus on subjects at risk for CDI with moderate to severe disease planning to receive SOC therapy
- Flexibility to assess effects of REC-3964 on both treatment and reduction of recurrence populations
- Potential to generate early evidence of economic value and model cost-effectiveness of REC-3964



Preclinical: HR-Proficient Ovarian Cancer



Note: in the OV0273 PDX model, mice were treated with a representative load molecule REC-1170204 (IDM mg/ng, 80, PO) + Nimparib (40 mg/ng, 00, PO) for 32 days. Single agent REC-1170204 or in combination with Niraparib resulted in a statistically significant response vs either Niraparib or vehicle arms. In addition, there was a statistically significant improvement is survival > 30 days post final door. * p=0.05, ** p=0.01, ***** p=0.0001

Recursion

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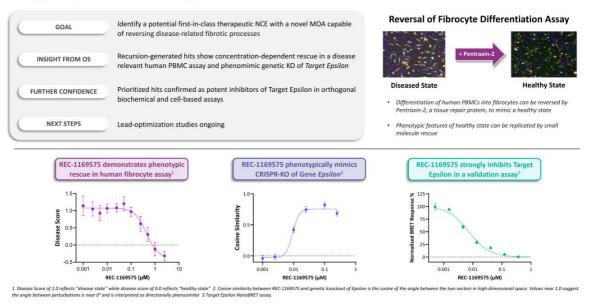
RBM39 Program for HR-Proficient Cancers

Lead NCE is a potential best-in-class RBM39 degrader being developed for HR-Proficient tumors

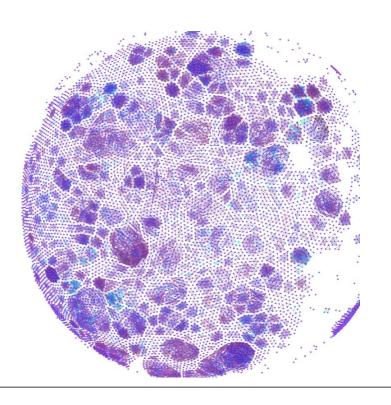
Program Overview	 Recursion OS identified RBM39 as a novel target capable of mimicking CDK12 biology independent of CDK13 Lead molecule has demonstrated durable regressions across HRP and HRD cell line and patient derived xenografts Program advanced from target identification to IND-enabling stages in under 18 months
Non- Clinical Updates	 No significant in vitro safety concerns with favorable tolerability in disease relevant animal models Target engagement assays demonstrate strong correlation between RBM39 degradation and tumor reduction in vivo Excellent physiochemical properties and reasonable human projected doses support cost-effective CMC campaign
Near-term Catalysts	IND submission expected in H2 2024
Commercial Opportunity	 >100,000 patients in US and EU5 harbor cancers that are HR-Proficient and are not eligible for PARP inhibitors Best-in-class potential as a single agent or in combination with other agents (PARP, IO, chemo, etc)
IP & Exclusivity	 Composition of matter patent pending with protection until 2043 (excluding extensions) No known barriers to market access

Preclinical: Undisclosed Indication in Fibrosis

Target Epsilon: Novel Approach for Fibrotic Diseases

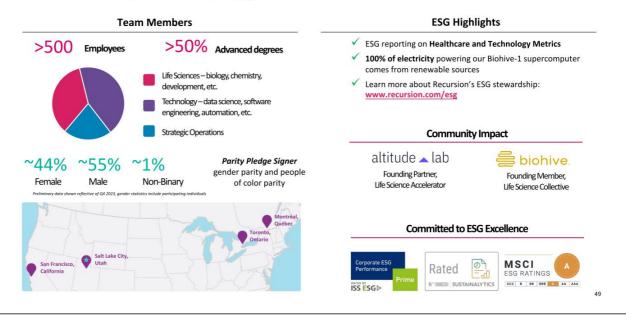


Value driven by our team and our milestones

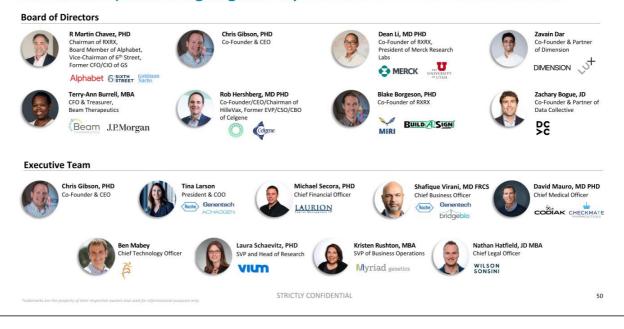


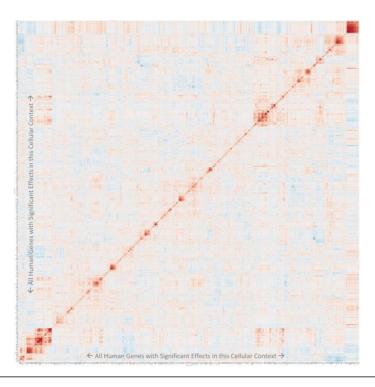


What it takes to make this happen - a new kind of team and culture



Our leadership team brings together experience & innovation to lead TechBio





Genome-scale mapping

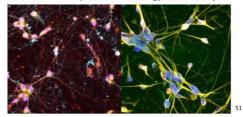
This is a **whole-genome arrayed CRISPR knock-out Map** generated in primary human endothelial cells

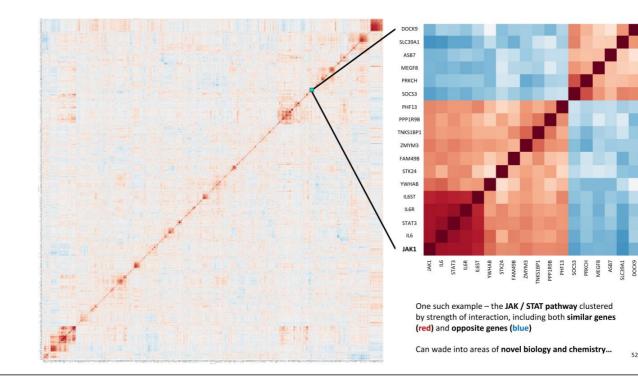
Every gene is represented in a pairwise way (each is present in columns and rows)

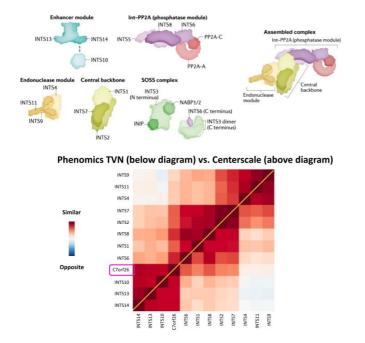
Dark Red indicates phenotypic similarity according to our neural networks while Dark Blue indicates phenotypic antisimilarity (which in our experience often suggests negative regulation)

We can add the phenotypes of hundreds of thousands of small molecules at multiple doses and query and interact with these maps using a web application

Thousands of examples of known biology and chemistry







Maps reveal known and novel biology

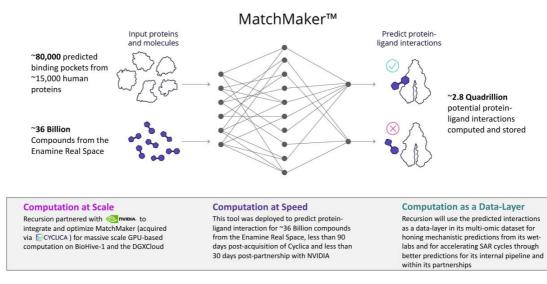
- In 2022, new independent research identified a previously unknown gene, C7orf26, as part of the Integrator complex
- Maps jointly developed by Recursion and Genentech replicated this same result
 - Demonstrates accuracy and consistency across different map building approaches

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🧿 Recursion.

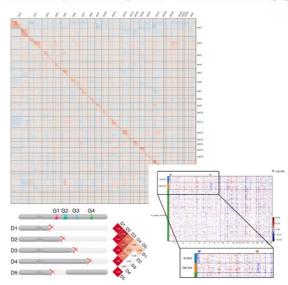


Bridging Protein and Chemical Space with Massive Protein-Ligand Interaction Predictions



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CRISPR proximity bias revealed using genome-wide phenomics screens



- Recursion demonstrated that CRISPR-Cas9 editing induces chromosome arm-scale truncations across the genome
- **Creates a proximity bias** in CRISPR screens which can confound some gene-gene relationships
- Recursion demonstrated a correction method leveraging public CRISPR-Cas9 knockout screens to mitigate bias
- Read "High-resolution genome-wide mapping of chromosome-arm-scale truncations induced by CRISPR-Cas9 editing" at <u>www.biorxiv.org</u>
- Already in the top 5% of research outputs in online engagement <u>www.altmetric.com</u>

COVID-19 research: Recursion OS correctly predicted 9 of 10 clinical trials

Drug	Prediction	Correct?
Hydroxychloroquine	x	\checkmark
Lopinavir	x	\checkmark
Ritonavir	x	\checkmark
Remdesivir	√	\checkmark
Baricitinib	√	\checkmark
Tofacitinib	\checkmark	\checkmark
Fostamatinib	√	\checkmark
lvermectin*	x	\checkmark
Fluvoxamine	x	\checkmark
Dexamethasone	x	x

* Recursion did not screen ivermectin, but did screen the related compounds selamectin and doramectin. Both of these tested negative; consequently ivermectin was not expected to have efficacy. Fostamatinb recently read out positive Ph3 results in COVID but was discontinued in ACTV-4.

https://www.bionxiv.org/content/10.1101/2020.04.21.054387v1

- Recursion conducted several AI-enabled experiments in April
 2020 to investigate therapeutic potential for COVID-19
 - Included FDA-approved drugs, EMA-approved drugs, and compounds in late-stage clinical trials for the modulation of the effect of SARS-CoV-2 on human cells
- Experiments were compiled into the **RxRx19 dataset** (860+ GB of data) and **made publicly available** to accelerate the development of methods and pandemic treatments.

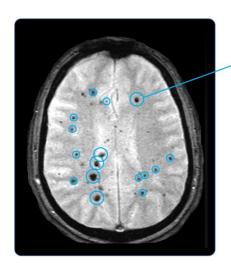


COVID-19 (RECOVERY): a randomised, controlled, open-label, platform trial

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

Superoxide Scavenger	
Small Molecule	
Cerebral Cavernous Malformations	
Phase 2	
US & EU Orphan Drug	
Recursion OS	

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



Description

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- 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 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

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- 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

e; Flemming KD, et al. Population-Based Prevalence of Cerebral Cavernous Malformations in Older Adults: Maya Clinic Study of Aging. JAMA Neurol. 2017 Jul 1;74(7):801-805. doi: 10.1001/jamaneurol.2017.0439. PMID: 284929312; PMCID: PMC5647645; Spiegler 5, et algoremations: A Lipdate on Prevalence, Molecular Genetic Analyse, and Genetic Causselling. Mol Syndromol. 2018 Feb;72(1):603. doi: 10.1159/000486392; Epub 2018 Jama 25: PMID: 2859373; PMCID: PMC5892731; PMCID: PMC589273231; PMCID: PMC5892731; PMCID: PMC5892731



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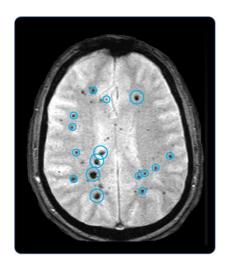
Clinical: CCM Disease Overview : CCM is an Under-Appreciated Orphan Disease

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

Sources: Angiona Alliance ; Henming KD, et al. Papulation-Based Prevalence of Cerebral Covernous Malformations in Older Adults: Mayo Clinic Study of Aging, JAMA Neurol. 2017. Jul 12747;802-805. doi: 10.1001/jamaneurol.2017.0439. PMID: 2849332; PMCD: PMCS497845; Spiegler S, et al Cerebral Covernous Malformations: An Update on Prevalence, Molecular Genetic Analysis, and Genetic Conventing, Mol Syndramol. 2013 Feb;52(2):66-96. doi: 10.1001/jamaneurol.2017.0439. PMID: 2849332; PMCD: PMCS497845; Spiegler S, et al Cerebral Thomas Respire Res. 2017. Jul 1272(197). DOI: 10.1011/jamaneurol.2017.0439. PMID: 2849332; PMCD: PMCS487455; Spiegler S, et al Cerebral Thomas Respire Res. 2017. Jul 1272(197). DOI: 10.1011/jamaneurol.2017.0439. PMID: 2849332; PMCD: PMCS487455; Spiegler S, et al Cerebral Res. Res. 2017. Jul 1272(197). DOI: 10.1011/jamaneurol.2017.0439. PMID: 2849342; Jul 2018 Res. Spiegler S, et al Cerebral Res. Telephonegory Cytechnols, CDC SMID: 2849472; PMCD: PMCS487422; Jul 2018 Res. 2017. Jul 1272(197). DOI: 2013/2105. Biol.2015. Jul 20147555; Spiegler S, et al Cerebral Res. Telephonegory Cytechnols, CDC SMID: Res. Res. Res. Res. 2017. Jul 1272(197). DOI: 2013/2107. Jul 1272(197). Jul 1272(197). DOI: 2013/2107. Jul 1272(197). Jul 1272(197

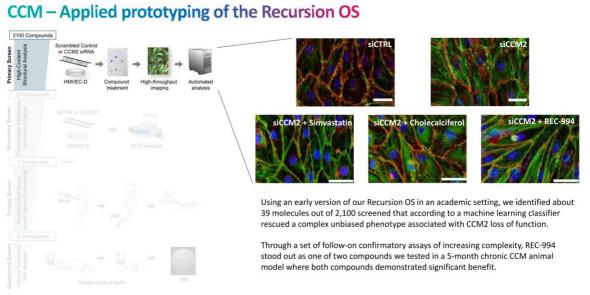
Clinical: CCM Therapeutic Approach to Cerebral Cavernous Malformations (CCM)

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Novel therapeutic approach

- Symptoms associated with both increased size of lesions, but also inflammation or activation of lesions within the immunoprivileged 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



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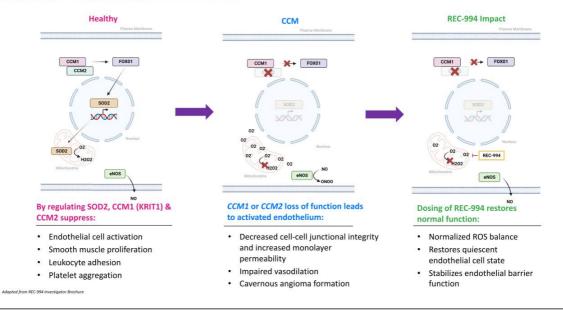
Clinical: CCM

Gibson, et al. Strategy for identifying re

n, 2015

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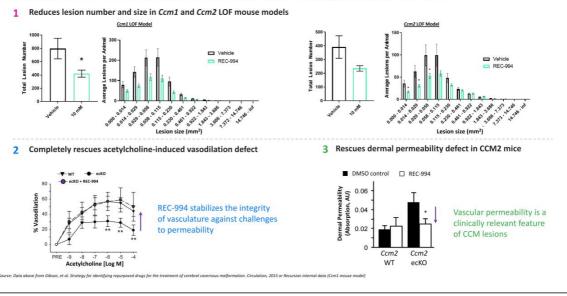
Clinical: CCM REC-994 – Mechanism of Action



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



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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

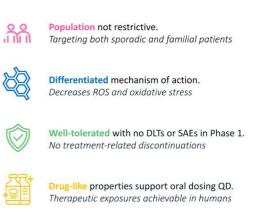
Source: REC-994 for the Treatment of Symptomatic Cerebral Covernous Malformation (CCM) Phase 1 SAD and MAD Study Results. Oral Presentation at Alliance to Cure Scientific Meeting. 2022 Nov 17

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REC-994 for

Symptomatic Cerebral Cavernous Malformations (CCM)

Target Product Profile:



REC-994 for Cerebral Cavernous Malformations (CCM)

First-in-disease potential in CCM with a first-in-class orally bioavailable small molecule SOD2 mimetic

Program Overview	 First therapeutic candidate advanced to an industry-sponsored Phase 2 trial (SYCAMORE) for CCM Partnered with leading KOLs at University of Rochester to develop a CCM PRO instrument for clinical trials Putative MOA decreases ROS and oxidative stress to rescue pathogenetic endothelial dysfunction
Clinical Updates	 Favorable safety and tolerability profile in Phase 1 dose-escalation with no DLTs and no SAEs Phase 2 trial fully accrued ahead of schedule in June 2023, enrolling 62 symptomatic CCM patients Majority of patients treated with REC-994 for ≥ 12 months have opted into LTE portion
Near-term Catalysts	 Phase 2 readout (safety, preliminary efficacy, pharmacokinetics) expected Q3 2024 Results from Phase 2 expected to inform defined registration path with guidance from FDA
Commercial Opportunity	 ~360,000 symptomatic CCM patients living in US and EU5 with no pharmacological agents approved Favorable competitive landscape with REC-994 2+ years ahead in development
IP & Exclusivity	 ODD in US and EU provides 7 and 10 years, respectively, of market exclusivity following approval Method of use patents provide protection until 2035 (excluding extensions)

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

Target / MOA	HDAC Inhibitor
Molecule Type	Small Molecule
Lead Indication(s)	NF2 Mutated Meningiomas
Status	Phase 2/3
Designation(s)	Fast Track; US and EU Orphan Drug
Source of Insight	Recursion OS

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



Ricki – living with NF2

ource: https://rarediseases.org/rare-diseases/neurofibromatasis-2

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

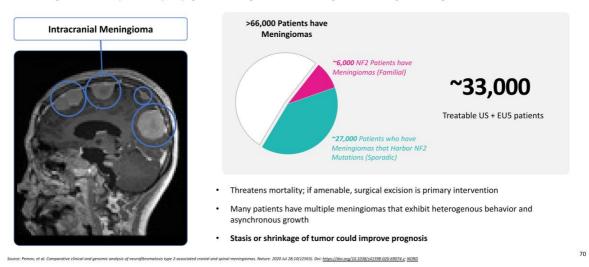
- No approved drugs for NF2
- Surgery is standard of care (when feasible)
- Location may make complete resection untenable, leading to hearing loss, facial paralysis, poor balance and visual difficulty

Clinical: NF2

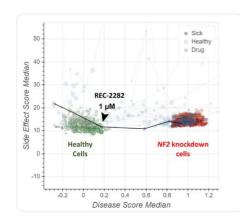
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Disease Overview : Neurofibromatosis Type 2 (NF2) Meningiomas

- · 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

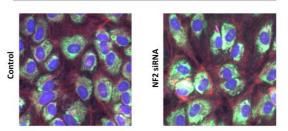


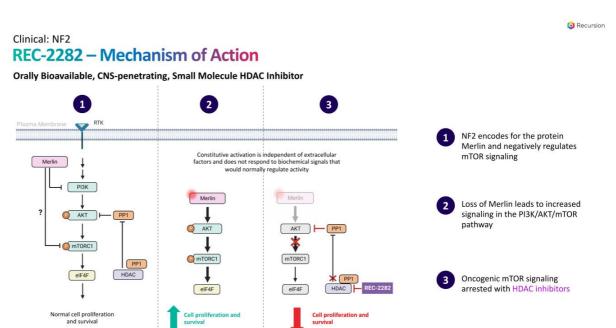
Clinical: NF2 Insight from OS : REC-2282 Rescued Loss of NF2



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

REC-2282 identified as rescuing HUVEC cells treated with NF2





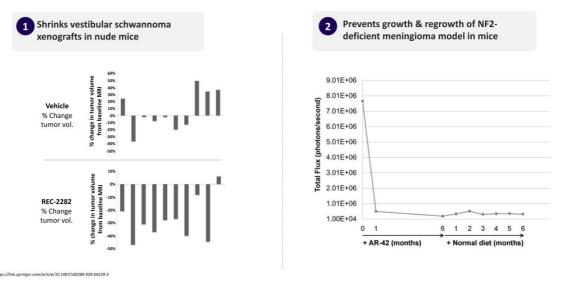
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ART, protein kinase B; elf4f; eukaryotic initiation factor 4F; HDAC, histone deacetylase; mTor, mammalian target of rapamycin; mTORC1; mammalian target of rapamycin complex 1; NP2, neurofibromatasis type 2; PDK, phosphonistika E-kinase; PP2, protein phosphote 1; Ras, reticular activating system.

Clinical: NF2

Further Confidence : Preclinical Studies Confirming Insight

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



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Clinical: NF2 Further Confidence : Prior Studies Suggest 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

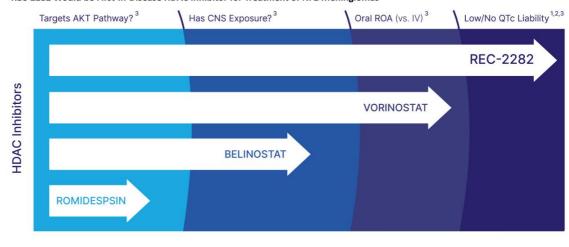


	Multiple investigator-initiated studies in oncology indications
Ŷ	Lengthy human clinical exposure in NF2 – multiple patients on drug for several years
	Well-characterized side effect profile
wi	th a drug-like profile
wi	th a drug-like profile
wi	th a drug-like profile Established and scalable API manufacturing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

Well understood clinical safety ...

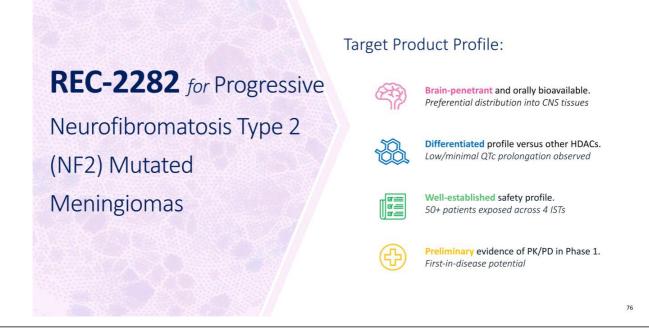
Clinical: NF2 REC-2282 Appears Well Suited for NF2 vs Other HDAC Inhibitors

REC-2282 Would be First-In-Disease HDAC Inhibitor for Treatment of NF2 Meningiomas



¹Sborov DW, et al. A phase 1 trial of the HDAC inhibitor AR-42 in patients with multiple myeloma and T- and 8-cell lymphomas. Leuk Lymphoma. 2017 Oct;58(10):2310-2318.
¹Coller KY, et al. A phase 1 trial of the histore desceptions inhibitor AR-42 in patients with neurolibromatosis type 2-associated tumors and advanced solid malignancies. Cancer Chemother Pharmacol. 2021 May;87(5):599-611

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REC-2282 for Neurofibromatosis type 2 (NF2)

First-in-disease potential in NF2 with a best-in-class HDAC inhibitor

Program Overview	 Orally bioavailable small molecule inhibitor of class I and class IIB HDACs in Phase 2/3 (POPLAR) trial Unique MOA that disrupts PP1-HDAC interface, attenuating pathophysiologic p-AKT without affecting total AKT Fast Track Designation in <i>NF2</i> mutant meningioma granted by FDA in 2021
Clinical Updates	 Cohort A (Phase 2) enrollment ongoing targeting ~ 20 adults Early Phase 1 study demonstrated mPFS of 9.1 months in patients with CNS tumors, including 5 NF2 patients Therapeutic concentrations of REC-2282 achieved in plasma and CNS tumors in early Phase 1 studies
Near-term Catalysts	 Expected to complete enrollment in adults by H1 2024 Phase 2 readout (safety, preliminary efficacy, pharmacokinetics) expected Q4 2024
Commercial Opportunity	 ~ 33,000 NF2-associated meningioma patients in US and EU5 eligible for treatment with no approved therapies Potential to expand into additional NF2 mutant populations including mesothelioma, MPNST and EHE
IP & Exclusivity	 ODD in US and EU provides 7 and 10 years, respectively, of market exclusivity following approval Composition of matter patent provides protection until 2030 (excluding extensions)

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

MEK Inhibitor
Small Molecule
Familial Adenomatous Polyposis
Phase 2
Fast Track; US and EU Orphan Drug
Recursion OS

Clinical: FAP Disease Overview : Familial Adenomatous Polyposis



Patient Population – Easily Identifiable

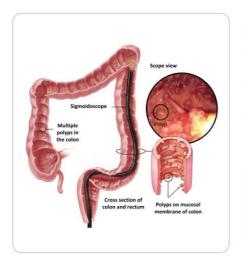
- Autosomal dominant tumor predisposition syndrome caused by a mutation in the APC gene
- Classic FAP (germline mutation) :
 - Hundreds to thousands of polyps in colon and upper GI tract
 - Extraintestinal manifestations (e.g., desmoid tumors)
 - 100% likelihood of developing colorectal cancer (CRC)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



Diagnosed US + EU5 patients

ps://www.hopkinsmedicine.ora/health/conditions-and-diseases/familial-adenomatous-polya

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



tps://www.hapkinsmedicine.org/health/conditions-and-diseases/familial-adenomatous-polyposis

No Approved Medical Therapy

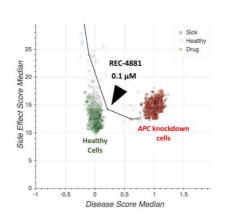
- Standard of care: colectomy during adolescence (with or without removal of rectum)
- Post-colectomy, patients still at significant risk of polyps progressing to GI cancer
- Significant decrease in quality-of-life post-colectomy: continued endoscopies and surgical intervention

"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

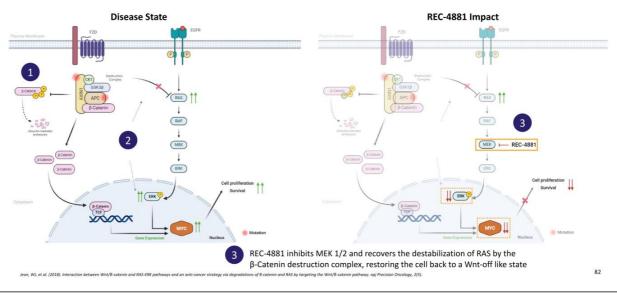
REC-4881 rescued phenotypic defects of cells with APC knockdown



- 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

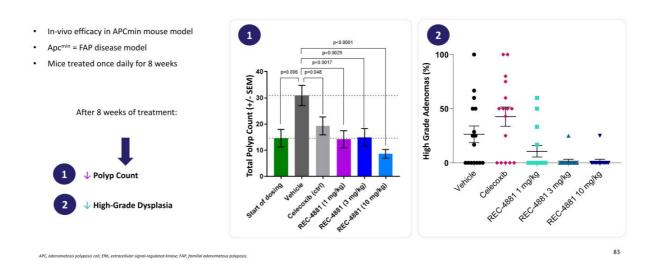
MoA : REC-4881 Blocks Wnt Mutation Induced MAPK Signaling

Orally Bioavailable, Small Molecule MEK Inhibitor



Clinical: FAP

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

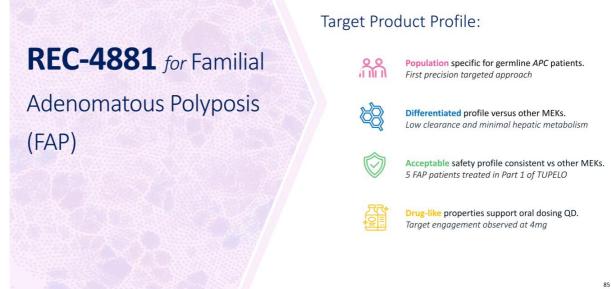


Clinical: FAP Further Confidence : Clinical Data Generated by Recursion

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

Note: AE, adverse event; MEK, mitogen-activated protein kinase; NHV, normal healthy volunteer; pERK, phosphorylated extracellular signal-regulated kinase; SAE, serious adverse event

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REC-4881 for Familial Adenomatous Polyposis (FAP)

First-in-disease opportunity in FAP with a potential best-in-class MEK 1/2 inhibitor

Program Overview	 Orally bioavailable, small molecule non-ATP competitive allosteric inhibitor of MEK 1/2 in Phase 2 (TUPELO) REC-4881 appears more active versus approved MEK inhibitors in disease relevant preclinical models Fast Track Designation in FAP granted by FDA in 2022
Clinical Updates	 Part 1 completed with 4 mg QD generally well-tolerated and safety profile consistent with other MEK inhibitors Early PD data indicates 4 mg is pharmacologically active – Part 2 protocol updated to dose escalation / expansion Efficacy will evaluate change in polyp burden relative to baseline at 12 weeks
Near-term Catalysts	 FPI for Part 2 expected H1 2024 Phase 2 readout (safety, preliminary efficacy, pharmacokinetics) anticipated H1 2025
Commercial Opportunity	 ~ 50,000 FAP patients in US and EU5 eligible for treatment with no approved therapies Opportunity to treat moderate-to-severe population to potentially delay or prevent surgical intervention
IP & Exclusivity	 ODD in US and EU provides 7 and 10 years, respectively, of market exclusivity following approval No known barriers to market access

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

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

Clinical: AXIN1 or APC Disease Overview : AXIN1 or APC Mutant Cancers



Gross morphology of HCC tumo

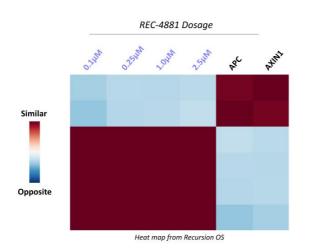
¹Bugter, J.M., et al. Nat Rev Cancer, 2021, 21, pp.5-21

- 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 or APC leads to sustained Wnt signaling promoting cancer progression and survival¹
- AXIN1 or 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

Tumor Type	AXIN1 Mutation Frequency ¹	APC Mutation Frequency ¹	Treatable Population ² (US+EU5)	Flexible Patient Selection Strategy and Study Desig
CRC	3%	70%	27,450	 AXIN1 and APC genes covered by commercially available NO panels and liquid biopsy detection assays
LUAD	4%	11%	14,000	FDA guidance supports utility of ctDNA as patient selection
Prostate	2%	11%	6,700	the detection of alterations for eligibility criteria and as a stratification factor for trials enrolling marker-positive and
Bladder	3%	8%	5,100	marker-negative populations ³
нсс	12%	5%	3,100 ——	Multiple tumor types will inform study design and patient
ndometrial	8%	12%	2,600	selection
sophageal	2%	7%	2,600	
PDAC	1%	2%	1,500	Preclinical data with REC-4881 at clinically relevant
Ovarian	1%	3%	1,400 ——	exposures in HCC and Ovarian PDX mouse models gives confidence to pursue other mutant
TNBC	1%	2%	300	cancer types
			~65.000	

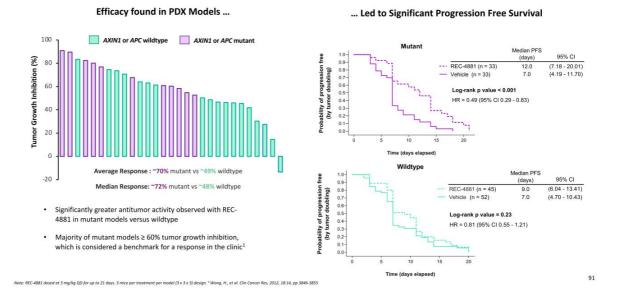


Hypothesis: Rescue of *AXIN1* may impact tumor progression and/or restore checkpoint sensitivity in cancers driven by *AXIN1* loss

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 or APC Further Confidence : Preclinical Studies Confirming Insight





REC-4881 for AXIN1 or APC Mutant Cancers

First-in-disease opportunity in AXIN1 or APC mutant cancers with a potential best-in-class MEK 1/2 inhibitor

Program Overview	 Orally bioavailable, small molecule non-ATP competitive allosteric inhibitor of MEK 1/2 in Phase 2 (LILAC) First therapeutic candidate advanced to a Phase 2 signal finding study in AXIN1 or APC mutant cancers Utilizing Tempus and FMI clinical trial solutions for patient identification and enrollment
Clinical Updates	 Safety run-in of REC-4881 to identify RP2D prior to allocation Protocol designed to assess activity in two independent cohorts of AXIN1 or APC mutant tumors Efficacy will evaluate ORR as measured by RECIST 1.1
Near-term Catalysts	 FPI expected in Q1 2024 Phase 2 readout (safety, preliminary efficacy, and PK) anticipated H1 2025
Commercial Opportunity	 ~ 65,000 AXIN1 or APC mutant patients in 2L in US and EU5 eligible for treatment with no approved therapies AXIN1 and APC genes covered by commercially available NGS panels and liquid biopsy detection assays
IP & Exclusivity	 Method of use patent pending with protection until 2043 (excluding extensions) No known barriers to market access

REC-3964 for the Prevention of Recurrent *C. difficile* Infection (rCDI)

Target / MOA	Selective C. difficile Toxin Inhibitor
Molecule Type	Small Molecule
Lead Indication(s)	Prevention of rCDI
Status	Phase 2
Source of Insight	Recursion OS

Clinical: C. difficile Disease Overview : C. Difficile Infection (CDI)



Patient Population – Large, Diagnosable and Easy to Identify

- Symptoms caused by clostridioides 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

Diagnosed US + EU5 patients

More than 80% of cases occur among patients age 65 or older

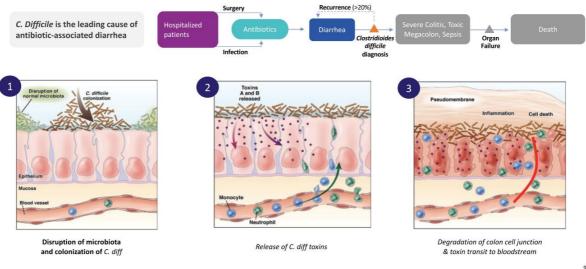
Large, Unmet Need with Significant Cost Burden

- 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



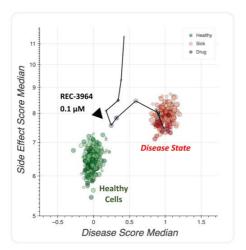
Source, CDC *NAAT = Nucleic Acid Amplification Test; **rCDI = recurrent CDI

Clinical: C. difficile Disease Overview : C. Difficile Infection (CDI)

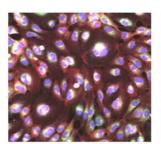


Source: McCallum, D., Rodriguez, JM. Detection, Treatment, and Prevention of Clostridium difficile Infection. Clinical Gastroenterology and Hepatology 2012 Mar 19. https://doi.org/10.1016/j.cgh.2012.03.008

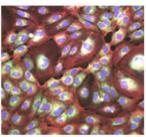
Clinical: C. difficile Insight from OS : REC-3964 Rescued Cells Treated with C. difficile Toxins



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



C. difficile toxin B phenotype



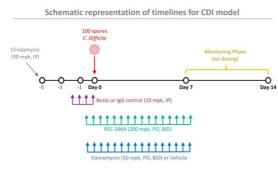
Healthy Control

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

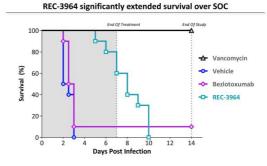
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REC-3964 is Superior to Bezlotoxumab in a Human Disease Relevant CDI Hamster Model



- N = 10 hamsters per group
- C. difficile strain 630 was used as genetic experiments confirmed virulence via toxin B¹
- Clinical observations were conducted from Day 0 to Day 7, with surviving animals monitored until Day 14

¹Lyras, D, et al. Nature, 2009, 458, pp.1176-1179.



- REC-3964 potently inhibits toxin B with residual activity against toxin A, while bezlotoxumab is specific to toxin B.
- Significant difference in probability of survival vs bezlotoxumab alone at the end of treatment (p<0.001, log-rank test)

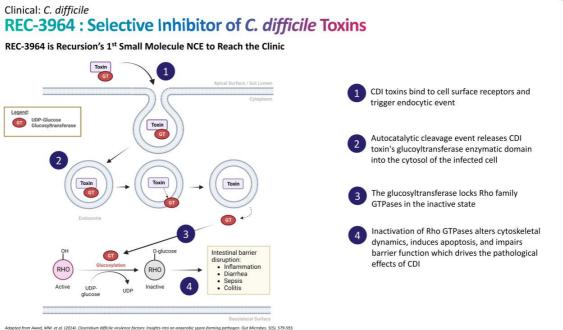
Clinical: C. difficile Further Confidence : Clinical Studies Confirming Safety

REC-3964 was well-tolerated with no treatment-related SAEs

MAD Study	Placebo (N=8) n (%)	100 mg (N=10) n (%)	300 mg (N=8) n (%)	500 mg (N=8) n (%)	900 mg (N=8) n (%)	REC-3964 Overall (N=34) n (%)	MAD Overall (N=42) n (%)
Total Number of TEAEs	17	24	5	9	7	45	62
Total Participants with \geq 1 TEAE	6 (75.0)	8 (80.0)	4 (50.0)	5 (62.5)	4 (50.0)	21 (61.8)	27 (64.3)
Relationship to Study Drug							
Not Related	4 (50.0)	6 (60.0)	3 (37.5)	4 (50.0)	4 (50.0)	17 (50.0)	21 (50.0)
Related	2 (25.0)	2 (20.0)	1 (12.5)	1 (12.5)	0	4 (11.8)	6 (14.3)
Abdominal Distension	2 (25.0)	1 (10.0)	1 (12.5)	1 (12.5)	0	3 (8.8)	5 (11.9)
Flatulence	0	1 (10.0)	0	0	0	1 (2.9)	1 (2.4)
Severity							
Grade 1	6 (75.0)	8 (80.0)	4 (50.0)	5 (62.5)	4 (50.0)	21 (61.8)	27 (64.3)
Grade 2	0	0	0	0	0	0	0
Grade ≥ 3	0	0	0	0	0	0	0
Total Number of SAEs	0	0	0	0	0	0	0
Discontinued Study Drug Due to AE	0	0	0	0	0	0	0

TEAEs = treatment emergent adverse events; Grade 1 = Mild, Grade 2 = Moderate, Grade 3 = Severe, Grade 4 = Life Threatening, Grade 5 = Fotal

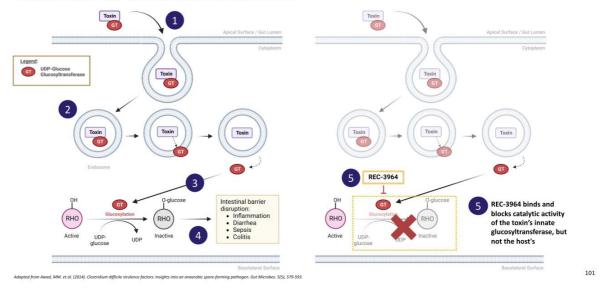
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REC-3964 is Recursion's 1st Small Molecule NCE to Reach the Clinic



REC-3964 for Prevention of recurrent C. difficile infection (rCDI) Image: Construction of the current of the cure

Therapeutic exposures observed in humans

REC-3964 for Prevention of recurrent C. difficile infection (rCDI)

First-in-class potential for prevention of rCDI

Program Overview	 Orally bioavailable, small molecule C. difficile toxin inhibitor and the first NCE developed by Recursion Differentiated MOA selectively targets bacterial toxin while sparing the host to minimize adverse events Robust preclinical efficacy demonstrating superiority vs bezlotoxumab in the gold standard hamster model
Clinical Updates	 Favorable safety and tolerability profile in Phase 1 dose-escalation with no DLTs and no SAEs Minimal adverse events seen in Phase 1, and all deemed Grade 1 BID dosing provides therapeutic exposures expected to reach targeted trough concentrations
Near-term Catalysts	 Full Phase 1 data to be presented at a medical conference in H1 2024 Phase 2 proof-of-concept study planned for initiation in 2024
Commercial Opportunity	 > 100,000 high-risk rCDI patients in US and EU5 with limited treatment options to prevent recurrent disease Ability to address populations not eligible for FMT or microbiome-based therapies due to comorbidities
IP & Exclusivity	 Composition of matter patent allowed with protection until 2042 (excluding extensions) No known barriers to market access

Recursion

Benchmarking Strategy for Program Prioritization

