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): February 27, 2024

Recursion Pharmaceuticals, Inc. (Exact name of registrant as specified in its charter)

Delaware

(State or other jurisdiction of incorporation or organization)

001-40323 (Commission File Number)

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

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

□ Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

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

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).

Emerging growth company \Box

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 2.02. Results of Operations and Financial Condition.

On February 27, 2024, Recursion Pharmaceuticals, Inc. (the "Company") issued a press release announcing its results of operations and financial condition for the fourth quarter and fiscal year ended December 31, 2023. A copy of the press release is furnished as Exhibit 99.1 and is incorporated herein by reference.

Item 7.01. Regulation FD Disclosure.

On February 27, 2024, the Company released an updated investor presentation. The investor presentation will be used from time to time in meetings with investors. A copy of the presentation is attached hereto as Exhibit 99.2.

Also on February 27, 2024, the Company released a presentation made in connection with its L(earnings) call on February 27, 2024. A copy of the presentation is attached hereto as Exhibit 99.3.

The Company announces material information to its investors using filings with the Securities and Exchange Commission (the "SEC"), the investor relations page on the Company's website, at https://ir.recursion.com/, press releases, public conference calls and webcasts. The Company uses these channels, as well as social media, to communicate with investors and the public about the Company, its products and services and other matters. Therefore, the Company encourages investors, the media and others interested in the Company to review the information it makes public in these locations, as such information could be deemed to be material information.

The information furnished pursuant to Item 2.02 (including Exhibit 99.1) and 7.01 (including Exhibits 99.2 and 99.3) on this Form 8-K, 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 into any other filing under the Securities Act of 1933, as amended, or the Exchange Act, except as expressly set forth by specific reference in such a filing.

Item 9.01. Financial Statements and Exhibits.

(d) Exhibits.

Exhibit Number	Description
99.1	Press release issued by Recursion Pharmaceuticals, Inc. dated February 27, 2024
99.2	Investor presentation of Recursion Pharmaceuticals, Inc. dated February 27, 2024
99.3	L(earnings) call presentation of Recursion Pharmaceuticals, Inc. dated February 27, 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 thereunto duly authorized on February 27, 2024.

RECURSION PHARMACEUTICALS, INC.

By: /s/ Michael Secora Michael Secora

Chief Financial Officer

Recursion Provides Business Updates and Reports Fourth Quarter and Fiscal Year 2023 Financial Results

- Multiple clinical programs from Recursion's first generation platform are on track to read out Phase 2 data in H2 2024 and H1 2025 with additional second generation programs
 approaching IND in the near-term
- In-licensed a program (Target Epsilon) that emerged from our fibrosis collaboration with Bayer that represents a novel approach to treating fibrotic diseases now entering IND-enabling studies
- Already incorporating causal AI models into the Recursion OS trained using data from Tempus after a mid-Q4 data partnership announced

SALT LAKE CITY, February 27, 2024 — Recursion (Nasdaq : RXRX), a leading clinical stage TechBio company decoding biology to industrialize drug discovery, today reported business updates and financial results for its fourth quarter and fiscal year ended December 31, 2023.

"2023 was a year of remarkable progress for Recursion as we continued to demonstrate how combining technology, biology, chemistry, and patient data can industrialize drug discovery, and we look forward to the milestones ahead of us in 2024," said Chris Gibson, Ph.D., Co-founder and CEO of Recursion. "As we have watched the dynamics of our landscape, it appears that BioTech is increasingly evolving into TechBio, where it is imperative for life science companies to embrace digital nativity similar to how SaaS companies 10+ years ago evolved to being cloud-native in order to thrive. In this data-driven age, we believe the most important differentiator will be connected data in order to increasingly understand and treat the complexities of human disease. Recursion plans to continue leading the field in terms of data generation and aggregation."



More than a dozen discovery and research programs in oncology or with our partners – first program optioned by Roche-Genentech in GI-oncology

All applications defined above are US and EUS indexes unless otherwise notice. USS in defined as France, Germany, Taby, Span and UK, Di and and spandic amothermatic application. (2) Annual US and US incodence or al MP2-denne meningromes. (3) Provincing for a Anti-and policity population. (4) Our program is the policitation and shorts are vanished to straget acoustic profile for a specific function. (4) Indiana US and US incodence for al MP2-denne meningromes. (3) Provincing for a Anti-and policity population. (4) Our program is the policitation and the acoustic policitation. (4) Indiana US incodence for al MP2-denne meningroups. (3) Provincing for a Anti-and policity population. (3) Our human and the acoustic policitation. (4) Indiana and the policitation and the policitation and the policitation and the policitation. (3) Anti-annual Bio and Euse and anti-and at transport and policitation. (4) Indiana and Euse and

Summary of Business Highlights

• Platform

Causal Al Modeling and Additional Datasets: We have been training causal Al models leveraging over 20 petabytes of multimodal precision oncology patient data from Tempus
to support the discovery of potential biomarker-enriched therapeutics at scale. By combining the forward genetics approach of Tempus

with the reverse genetics approach at Recursion, we believe we have an opportunity to improve the speed, precision, and scale of therapeutic development in oncology. This work has already resulted in a directed-oncology program against a novel gene/disease relationship in a large oncology indication. Recursion intends to operate both as a data generator and multimodal data aggregator. In the future, we intend to augment our dataset and hone the Recursion OS with germline genetic data, organoid technologies, and automated nano-synthesis technologies.

LOWE (Large Language Model-Orchestrated Workflow Engine): LOWE is an LLM agent that represents the next evolution of the Recursion OS. LOWE supports drug discovery programs by orchestrating complex wet and dry-lab workflows via natural language prompts. These workflows are the steps and tools available in the Recursion OS, from finding significant relationships across biology, chemistry, and patient-centric data to generating novel compounds and scheduling them for synthesis and experimentation. Through its natural language interface and interactive graphics, LOWE can put state-of-the-art Al tools into the hands of every drug discovery scientist.

Pipeline

- Cerebral Cavernous Malformation (CCM) (REC-994): Our Phase 2 SYCAMORE clinical trial is a randomized double-blind, placebo-controlled, safety, tolerability and exploratory
 efficacy study of REC-994 in participants with CCM. This trial was fully enrolled in June 2023 with 62 participants and the vast majority of participants who completed 12 months of
 treatment continue to elect to enter the long-term extension study. We expect to share Phase 2 data in Q3 2024.
- treatment continue to elect to enter the long-term extension study. We expect to share Phase 2 data in Q3 2024.
 Neurofibromatosis Type 2 (NF2) (REC-2282): Our adaptive Phase 2/3 POPLAR clinical trial is a randomized, two part study of REC-2282 in participants with progressive NF2-mutated meningiomas. Part 1 of the study is ongoing and is exploring two doses of REC-2282 in approximately 23 adults and 9 adolescents, with enrollment in adults expected to complete in H1 2024. We expect to share Phase 2 safety and preliminary efficacy data in Q4 2024.
- Familial Adenomatous Polyposis (FAP) (REC-4881): Our Phase 1b/2 TUPELO clinical trial is an open label, multicenter, two part study of REC-4881 in participants with FAP. Part 1 is complete with FPI for Part 2 anticipated in H1 2024. We expect to share Phase 2 safety and preliminary efficacy data in H1 2025.
- AXIN1 or APC Mutant Cancers (REC-4881): Our Phase 2 LILAC clinical trial is an open label, multicenter study of REC-4881 in participants with unresectable, locally advanced
 or metastatic cancer with AXIN1 or APC mutations. This study was initiated at the end of 2023, with FPI anticipated in Q1 2024. We expect to share Phase 2 safety and
 preliminary efficacy data in H1 2025.
- Clostridioides difficile Infection (REC-3964): We conducted a Phase 1 healthy volunteer study to evaluate the safety, tolerability and PK of REC-3964 at increasing oral doses in comparison with placebo. REC-3964 was safe and well tolerated and there were no serious adverse events, deaths or TEAEs that led to discontinuation. REC-3964 is a first-inclass *C. difficile* toxin inhibitor and the first new chemical entity developed by Recursion, with promising preclinical efficacy data seen in relevant models (superiority versus bezlotoxumab). We expect to initiate a Phase 2 study in 2024.

- RBM39 HR-Proficient Ovarian Cancers and Other Solid Tumors: RBM39 is a novel CDK12-adjacent target identified by the Recursion OS. We intend to position our lead candidate as a single agent for the potential treatment of HR-proficient ovarian cancers and other HR-proficient solid tumors. As a result of our strategic collaboration with Tempus, we are leveraging genomic data across all tumor types to identify clinical biomarkers for patient expansion. We are advancing our lead candidate through IND-enabling studies with IND submission expected in H2 2024.
- Undisclosed Indication in Fibrosis (Target Epsilon): Phenotypic screening of human PBMCs identified novel and structurally diverse small molecules that reverse the
 phenotypic features of disease-state fibrocyte cells into those of healthy-state cells. The most promising compounds were confirmed as potent inhibitors of a novel target for
 fibrosis. This program originated under our initial fibrosis collaboration with Bayer and we have since in-licensed from Bayer all rights to this program which is now entering INDenabling studies.

Partnerships

- Transformational Collaborations: We continue to advance efforts to discover potential new therapeutics with our strategic partners in the areas of undruggable oncology (Bayer) as well as neuroscience and a single indication in gastrointestinal oncology (Roche-Genentech). In the near-term, there is the potential for option exercises associated with partnership programs, option exercises associated with map building initiatives or data sharing and additional partnerships in large, intractable areas of biology or technological innovation.
- Enamine: In December 2023, we entered a collaboration with Enamine to generate and design enriched compound libraries for the global drug discovery industry. By leveraging MatchMaker, a Recursion AI model, to identify compounds in the Enamine REAL Space (~36 billion chemical compounds) predicted to bind to high-value targets, we believe we can generate more powerful compound libraries for drug discovery purposes. Enamine may offer the resulting libraries to customers for purchase and will co-brand any libraries under both the Enamine and Recursion's trademarks. This collaboration is an example of how select data layers can drive value in novel ways.

Additional Corporate Updates

- · Letter to Shareholders: Recursion Co-Founder & CEO Chris Gibson, Ph.D. wrote an annual letter to shareholders which may be found in the 10-K report.
- L(earnings) Call: Recursion will host a L(earnings) Call on February 27, 2024 at 5:00 pm Eastern Time / 3:00 pm Mountain Time. A L(earnings) Call is Recursion's take on interacting
 with a broad public audience around notable business developments. Recursion will broadcast the live stream from Recursion's X (formerly Twitter), LinkedIn and YouTube accounts and
 analysts, investors and the public will be able to ask questions of the company.
- analysts, investors and the public will be able to ask questions of the company. **Chief Business Operations Officer:** In February 2024, Recursion named Kristen Rushton, M.B.A. as Chief Business Operations Officer. Ms. Rushton has worked at Recursion for over 6 years, previously serving as Senior Vice President of Business Operations. Prior to Recursion, Ms. Rushton worked at Myriad Genetics and Myrexis.
- Annual Shareholder Meeting: Recursion's Annual Shareholder Meeting will be held on June 3, 2024 at 10:00 am Eastern Time / 8:00 am Mountain Time.

Fourth Quarter and Fiscal Year 2023 Financial Results

- Cash Position: Cash and cash equivalents were \$391.6 million as of December 31, 2023, compared to \$549.9 million as of December 31, 2022.
 Revenue: Total revenue, consisting primarily of revenue from collaborative agreements, was \$10.9 million for the fourth quarter of 2023, compared to \$13.7 million for the fourth quarter of 2022. Total revenue, consisting primarily of revenue from collaboration agreements, was \$44.6 million for the year ended December 31, 2023, compared to \$39.8 million for the year ended December 31, 2022. For the fourth quarter of 2023, the decrease compared to the prior period was due to the timing of workflows from our strategic partnership with Roche-Genentech. For the year ended December 31, 2023 compared to the prior year, the increase was due to revenue recognized from our Roche-Genentech collaboration, which has progressed from primarily cell type evaluation work to inference based Phenomap building and additional cell type evaluation work.
- Research and Development Expenses: Research and development expenses were \$69.5 million for the fourth quarter of 2023, compared to \$44.0 million for the fourth quarter of 2022. Research and development expenses were \$241.2 million for the year ended December 31, 2023, compared to \$155.7 million for the year ended December 31, 2022. The increase in 2023 research and development expenses compared to the prior year was due to increased platform costs as we have expanded and upgraded our capabilities in platform including our chemical technology, machine learning and transcriptomics platform.
- General and Administrative Expenses: General and administrative expenses were \$30.5 million for the fourth quarter of 2023, compared to \$19.8 million for the fourth quarter of 2022. General and administrative expenses were \$110.8 million for the year ended December 31, 2023, compared to \$81.6 million for the year ended December 31, 2022. The increase in 2023 general and administrative expenses compared to the prior year was primarily driven by an increase in salaries and wages of \$12.4 million and increases in legal, software and depreciation expense.
- Net Loss: Net loss was \$93.0 million for the fourth quarter of 2023, compared to a net loss of \$57.5 million for the fourth quarter of 2022. Net loss was \$328.1 million for the year ended December 31, 2023, compared to a net loss of \$239.5 million for the year ended December 31, 2022.
- Net Cash: Net cash used in operating activities was \$74.1 million for the fourth quarter of 2023, compared to net cash used in operating activities of \$44.7 million for the fourth quarter of 2022. Net cash used in operating activities was \$287.8 million for the year ended December 31, 2023, compared to net cash used in operating activities of \$83.5 million for the year ended December 31, 2023. Compared to net cash used in operating activities of \$83.5 million for the year ended December 31, 2023. The difference was primarily driven by a \$150.0 million upfront payment from Roche-Genentech in early 2022 and an increase in operating expenses in 2023.

About Recursion

Recursion is a clinical stage TechBio company leading the space by decoding biology to industrialize drug discovery. Enabling its mission is the Recursion OS, a platform built across diverse technologies that continuously expands one of the world's largest proprietary biological, chemical and patient-centric datasets. Recursion leverages sophisticated machine-learning algorithms to distill from its dataset a collection of trillions of searchable relationships across

biology and chemistry unconstrained by human bias. By commanding massive experimental scale — up to millions of wet lab experiments weekly — and massive computational scale — owning and operating one of the most powerful supercomputers in the world, Recursion is uniting technology, biology, chemistry and patient-centric data to advance the future of medicine.

Recursion is headquartered in Salt Lake City, where it is a founding member of BioHive, the Utah life sciences industry collective. Recursion also has offices in Toronto, Montreal and the San Francisco Bay Area. Learn more at www.Recursion.com, or connect on X (formerly) Twitter and LinkedIn.

Media Contact Media@Recursion.com

Investor Contact Investor@Recursion.com

Recursion Pharmaceuticals, Inc. Consolidated Statements of Operations (unaudited) (in thousands, except share and per share amounts)

		Three months ended December 31,			Years ended December 31,		
		2023	2022		2023	2022	
Revenue							
Operating revenue		10,624	13,676	\$	43,876 \$	39,681	
Grant revenue		267			699	162	
Total revenue		10,891	13,676		44,575	39,843	
Operating costs and expenses							
Cost of revenue		9,881	10,840		42,587	48,275	
Research and development		69,482	43,980		241,226	155,696	
General and administrative		30,458	19,838		110,822	81,599	
Total operating costs and expenses		109,821	74,658		394,635	285,570	
Loss from operations		(98,930)	(60,982)		(350,060)	(245,727)	
Other income, net		4,306	3,490		17,932	6,251	
Loss before income tax benefit		(94,624)	(57,492)		(332,128)	(239,476)	
Income tax benefit		1,628 \$	_		4,062 \$	_	
Net loss	\$	(92,996) \$	(57,492)	\$	(328,066) \$	(239,476)	
Per share data							
Net loss per share of Class A, B and Exchangeable common stock, basic and diluted	\$	(0.42) \$	(0.31)	\$	(1.58) \$	(1.36)	
Weighted-average shares (Class A, B and Exchangeable) outstanding, basic and diluted		223,158,161	185,669,683		207,853,702	175,537,487	

Recursion Pharmaceuticals, Inc. Consolidated Balance Sheets (unaudited) *(in thousands)*

	December 3	
	2023	2022
Assets		
Current assets		
Cash and cash equivalents	\$ 391,565 \$	549,912
Restricted cash	3,231	1,280
Other receivables	3,094	2,753
Other current assets	40,247	15,869
Total current assets	438,137	569,814
Restricted cash, non-current	6,629	7,920
Property and equipment, net	86,510	88,192
Operating lease right-of-use-assets	33,663	33,255
Intangible assets, net	36,443	1,306
Goodwill	52,056	801
Other assets, non-current	261	_
Total assets	\$ 653,699 \$	701,288
Liabilities and stockholders' equity		
Current liabilities		
Accounts payable	\$ 3,953 \$	4,586
Accrued expenses and other liabilities	46,635	32,904
Unearned revenue	36,426	56,726
Notes payable	41	97
Operating lease liabilities	6,116	5,952
Total current liabilities	93,171	100,265
Unearned revenue, non-current	51,238	70,261
Notes payable, non-current	1,101	536
Operating lease liabilities, non-current	43,414	44,420
Deferred tax liabilities	1,339	—
Total liabilities	190,263	215,482
Commitments and contingencies		
Stockholders' equity		
Common stock (Class A, B and Exchangeable)	2	2
Additional paid-in capital	1,431,056	1,125,360
Accumulated deficit	(967,622)	(639,556)
Total stockholders' equity	463,436	485,806
Total liabilities and stockholders' equity	\$ 653,699 \$	701,288

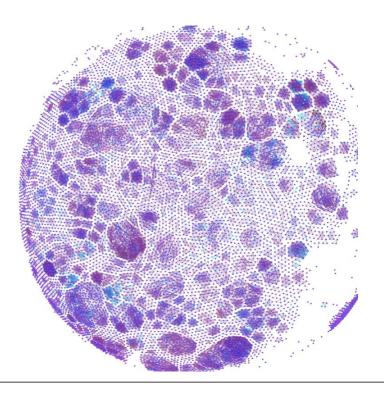
Forward-Looking Statements

This document contains information that includes or is based upon "forward-looking statements" within the meaning of the Securities Litigation Reform Act of 1995, including, without limitation, those regarding the outcomes and benefits expected from the Large Language Model-Orchestrated Workflow Engine; outcomes and benefits expected from training causal AI models utilizing multimodal data held at Tempus; expectations regarding early and late stage discovery, preclinical, and clinical programs, including timelines for enrollment in studies, data readouts, and progression toward IND-enabling studies; expectations and market opportunities; developments with Recursion OS and other technologies, including augmentation of our dataset; expectations for business and financial plans and performance, including cash runway; Recursion's plan to maintain a leadership position in data generation and aggregation; the timing of the filing of the Annual Report on Form 10-K for the fiscal year ended December 31, 2023 and the inclusion of the CEO Letter; and all other statements that are not historical facts. Forward-looking statements may or may not include identifying words such as "plan," "will," "expect," "anticipate," "intend," "believe, " "potential," "could," "continue," and similar terms. These statements are subject to known or unknown risks and uncertainties that could cause actual results to differ materially from those expressed or implied in such statements, including but not limited to: challenges inherent in pharmaceutical research and development, including the timing and results of preclinical and clinical programs, where the risk of failure is high and failure can occur at any stage prior to or after regulatory approval due to lack of sufficient efficacy, safety considerations, or other factors; our ability to obtain regulatory approval of, and utimately commercialize, drug candidates; our ability to obtain maintain, and enforce intellectual property protections; cyberattacks or other disruptions to our technol



Decoding Biology To Radically Improve Lives

February 2024

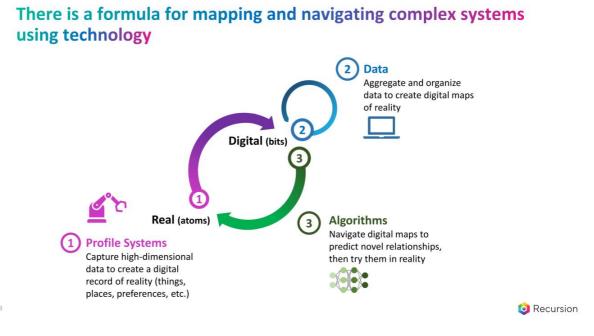


Disclaimers

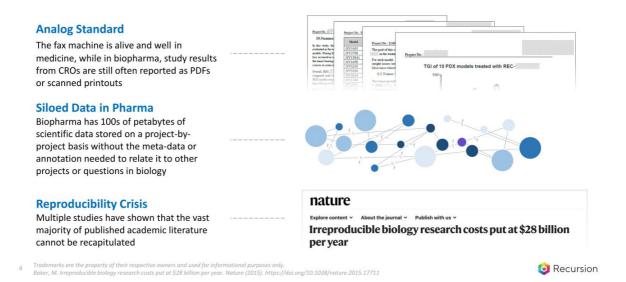
This presentation and any accompanying discussion and documents contain information that includes or is based upon "forward-looking statements" within the meaning of the Securities Litigation Reform Act of 1995. These forward-looking statements are based on our current expectations, estimates and projections 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, including augmentation of our dataset; 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. Forwardlooking 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 on Form 10-K for the Fiscal Year ended December 31, 2023. 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.

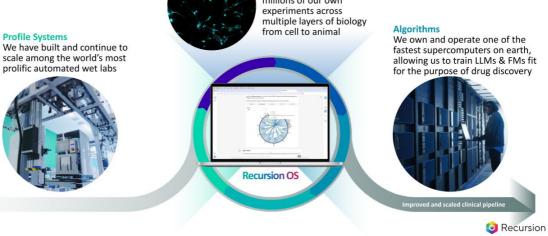
Any non-Recursion logos or trademarks included herein are the property of the owners thereof and are used for reference purposes only.



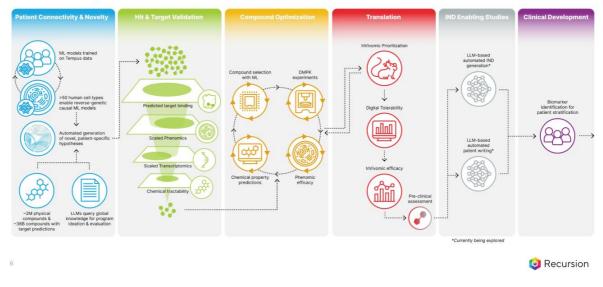
Data roadblocks make mapping and navigating biology difficult





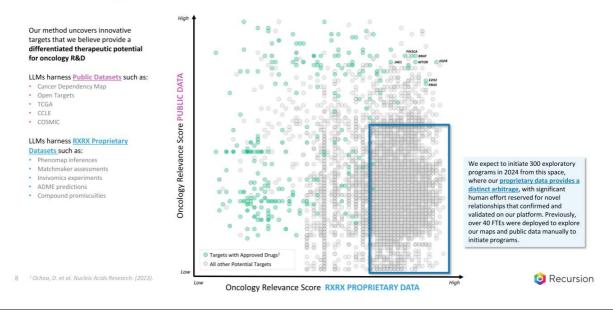


The Recursion OS combines many tools to industrialize drug discovery

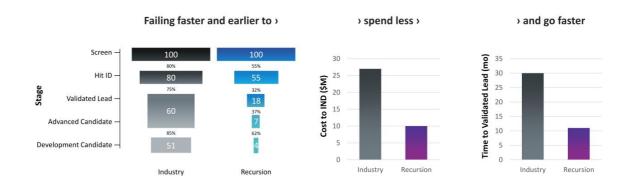




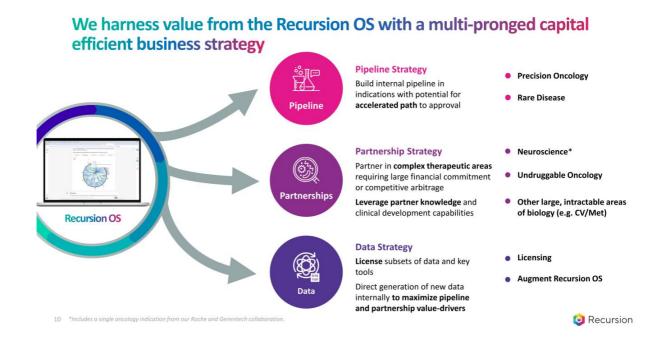
New programs are initiated automatically by LLMs tuned to act on Recursion data arbitrage

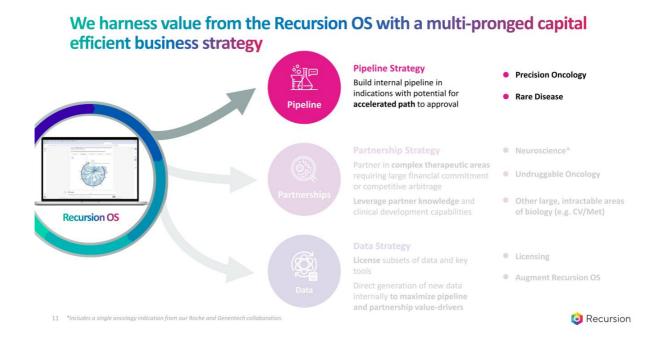


The Recursion OS maps and navigates biology to shift drug discovery from bespoke science to scaled engineering



All industry data has been adapted from Paul, et al. Nature Reviews Drug Discovery. (2010) 9, 203–214. The cost to IND has been inflation-adjusted using the US Consumer Price Index (CPI). 9 The Recursion data shown for the transition stages and time to volidated lead is the average of all Recursion programs since late 2017 through 2023. The Recursion data shown for cost to IND pertains to the actual and projected costs for a novel chemical entity to reach IND.



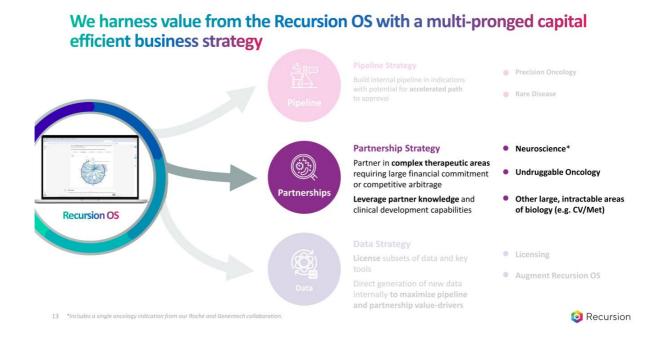


Our pipeline reflects the scale and breadth of our approach

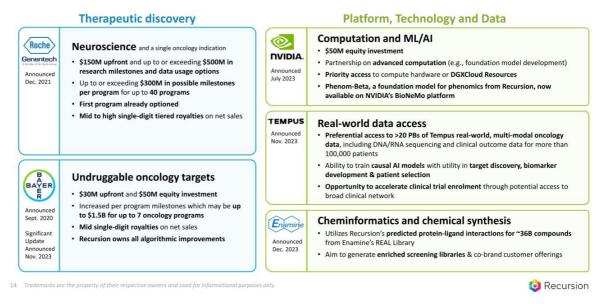
	Program	Indication	Target	Patient Population	Preclinical	Phase 1	Phase 2	Phase 3
Other	REC-994	Cerebral Cavernous Malformation	Superoxide	~ 360K ¹				
	REC-2282	Neurofibromatosis Type 2	HDAC	~ 33K ²				
Š	REC-4881	Familial Adenomatous Polyposis	MEK	~ 50K ³				
Oncology Rare	REC-3964	Clostridioides difficile infection	TcdB	~730K				
	Epsilon	Fibrotic Diseases	Undisclosed	~ 50K ^{4,5,6}				
	REC-4881	AXIN1 or APC Mutant Cancers	MEK	~ 65K ⁷				
	RBM39	HR-Proficient Ovarian & Solid Tumors	RBM39	~ 200K ⁸				

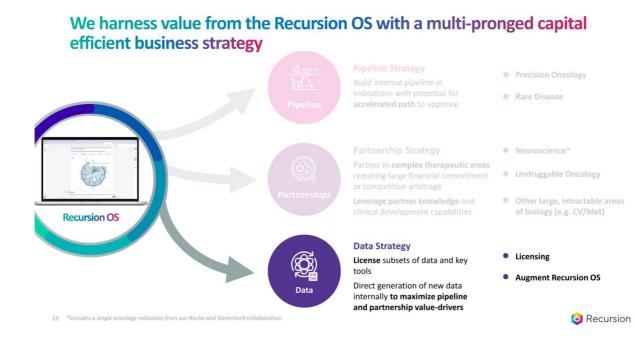
More than a dozen discovery and research programs in oncology or with our partners – first program optioned by Roche-Genentech in Gl-oncology

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 sporadic symptomatic population. (2) Annual US and EUS incidence for all NF2-driven meningiomas. (3) Prevalence for adult and pediatric population. (4) Our program has the potential to address several indications. (5) We have not finalized a target product profile for a specific indication. (6) Incidence for US only. (7) 2L drug-treatable population. (8) 2L drug-treatable population comprising ovarian, prostate, breast, and pancreatic cancers with no HRR mutations.



Exciting scientific collaborations span biopharma, tech & data







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 Manachustru, USA, ²Recursion Pharmacenticals, Shi Lalo Car, Utah, USA, ²Contor for the Science of Therapeuton, Broad Busittet of Herrard and MIT, Cambridge, Manachustru, USA, Carrospondence should be address to CCG. 1 (ching Sport Neurosing Pharmacen and a ALE, C. (and/Pharmallantinic arg.).

Published online 25 August 2016: doi:10.1038/poort 2016.105 Patihote nine 37 August 20ti: encits 1010/paper 281-135 In morphological, profiling, sumtilative data are extended from microscopy images of cells to identify biologically relevan generatives and differences among samples based on these profiles. This protect describes the design and succelline of experiments units of cell insisting, which is a nonphological profiling anysult but multiployees is findermosent dyes, imaged in channels, to reveal eight broadly velevant cellular components or organelies. Cells are plated in multiwell pates, perturbes to any organize of the setting, which are any description of the setting of the setting and pates of the channels, to reveal eight broadly velevant cellular components or organelies. Cells are plated in multiwell pates, perturbes identifies individual cells and massures -1,500 morphological features (carious messures of size, shape, beatures is on 1 to produce of cho profile that the suitable for the detection of suitable pathways, and disentifying signatures of diseas different experimental perturbations can be compared to suit many goals, such as identifying signatures of diseas Cell culture and image acquisition takes 2 weeks; feature extraction and data analysis take an additional 1-2 weeks.

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INTRODUCTION Phenotypic screening has been tremendously powerful for identifying novel small molecules as probes and potential thera-processer³¹. High-throughput microscopy has been a particu-tary fruitid type of phenotypic screening it is obten allow the stress screening is isoben allow the stress content analysis because of the high information content that in miges? However, most targe-scale interast scale target is in the stress of the stress schedule as a nucle wider net, and works it is demonstrative data about collutar state remain that was tagget as a nucle wider net, and works it is obtained in morphology. Chilar morphology is a potential is a nucle schedule schedule and out collutar state is constrained in morphology. Chilar morphology is a potential if a state of 20⁻¹⁰. The trackings and technology the appendix of the opportunity for diameters to about the tracking the opportunity for diameters to be intered for morphology. Chilar morphology is a potential if a state of 20⁻¹⁰. The trackings and technology that potentian be the reconstraints accessible that have advanced rapidly, and herey re now becoming accessible to nonproducing alcoholing (alcohoning). The stress accessible targe accessible to nonproducing and the stress a

discuss morphological profiling (also known filing), contrast it with conventional image-

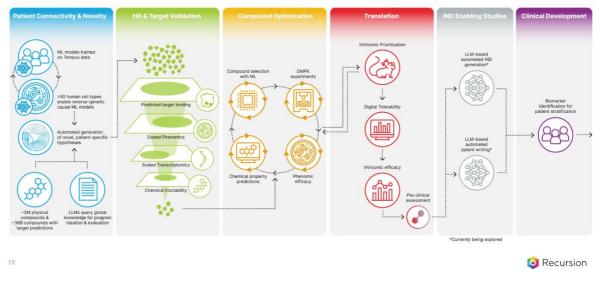
ships be

PROTOCOL

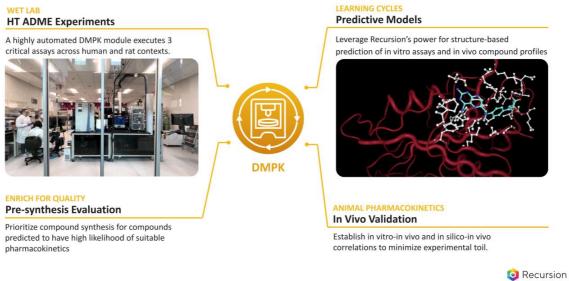
As these point solutions evolve they increase in complexity and scale

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 18-14-14 18-14-14 Up to A **2.2M experiments** 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 Whole-genome CRISPR knockouts chemical contexts

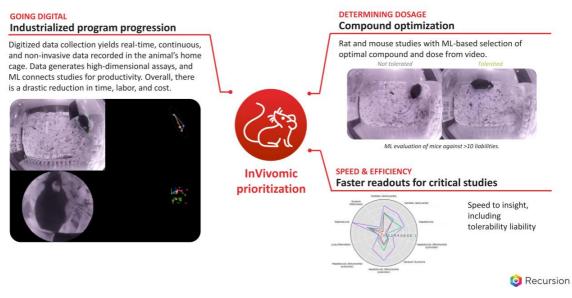
To truly industrialize drug discovery, point solutions must be integrated as modules across many diverse steps



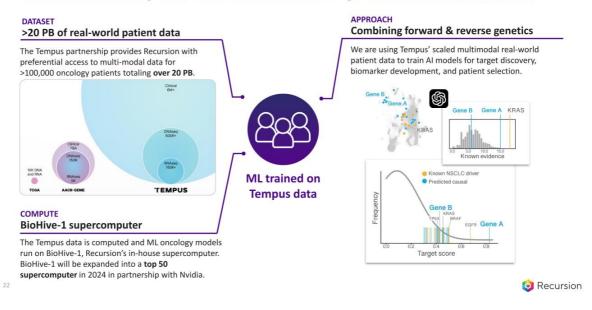
Each module is complex, and we continuously improve them



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

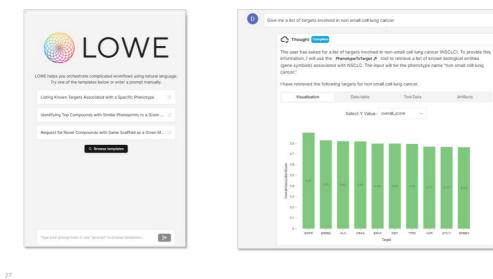


We use different modules for different tasks: Find novel target & drug it



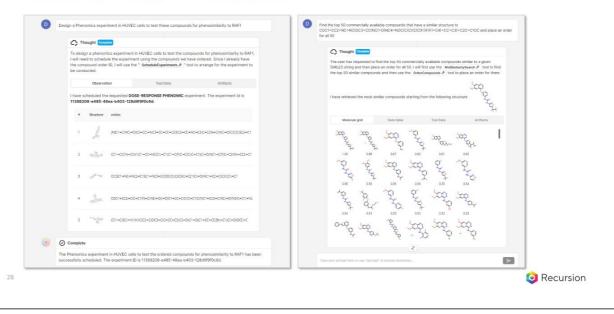


LOWE puts the power of the Recursion OS your fingertips via natural language without any coding expertise required



(2) Recursion

LOWE puts the power of the Recursion OS your fingertips via natural language without any coding expertise required



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

 \ldots it is increasingly integrated and accessible via a $\ensuremath{\text{Discovery User Interface}}$ that

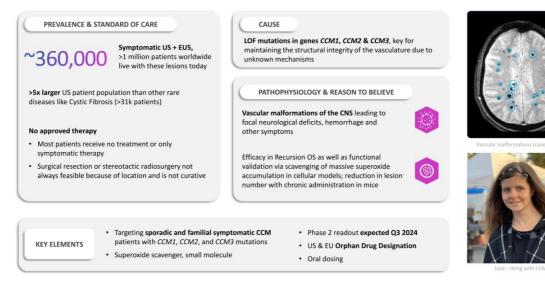
can be used by any of our scientists from the comfort of their laptop...



(2) Recursion

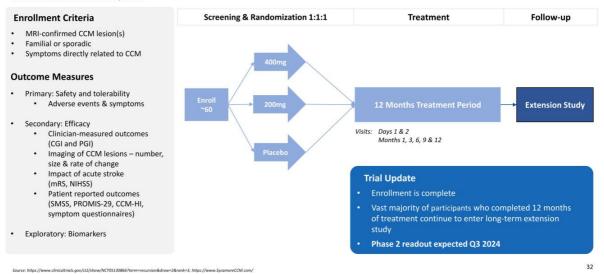


SYCAMORE Clinical Trial : REC-994 for CCM Phase 2 Fully Enrolled



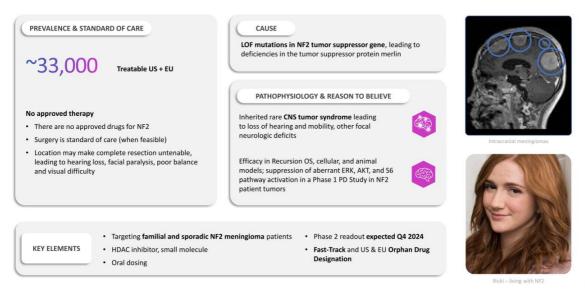
SYCAMORE Clinical Trial : REC-994 for CCM Phase 2 Fully Enrolled

Phase 2 trial initiated in Q1 2022



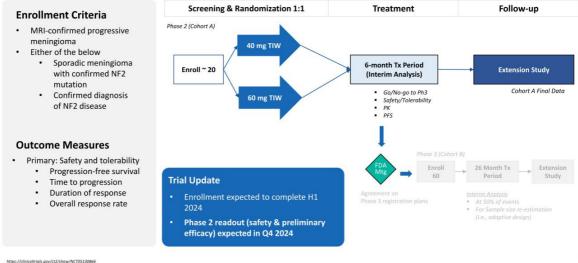
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POPLAR Clinical Trial : REC-2282 for NF2 Phase 2 Underway



POPLAR Clinical Trial : REC-2282 for NF2 Phase 2 Underway

Phase 2/3 trial initiated in Q2 2022



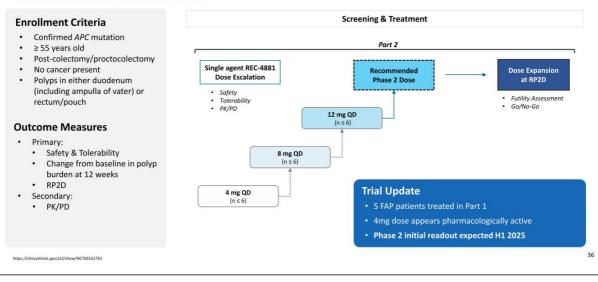


Clinical: FAP TUPELO Clinical Trial : REC-4881 for FAP Phase 1b/2 Underway

~50,000 Diagnosed US + EU5	PATHOPHYSIOLOGY & REASON TO BELIEVE	
lo approved therapy Colectomy during adolescence (with or without removal of rectum) is standard of care Post-colectomy, patients still at significant risk of polyps progressing to GI cancer Significant decrease in quality-of-life post-colectomy (continued endoscopies, surgical intervention)	Polyps throughout the Gi tract with extremely high risk of malignant transformation Efficacy in the Recursion OS showed specific MKK 1/2 inhibitors had an effect in context of APC LOF. Subsequent APC ^{min} mouse model showed potent reduction in polyps and dysplastic adenomas	
Targeting classical FAP patients (w Targeting classical FAP patients (w MEK inhibitor, small molecule Oral dosing	vith APC mutation) • FPI for Part 2 expected H1 2024 • Fast-Track and US & EU Orphan Drug Designation	



Part 1 Complete, Part 2 FPI Expected H1 2024

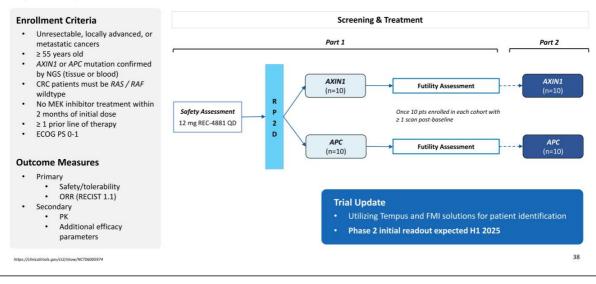


Clinical: AXIN1 or APC LILAC Clinical Trial : REC-4881 for AXIN1 or APC mutant cancers Phase 2

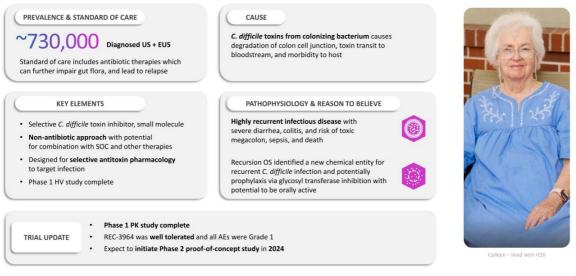
PREVALENCE & STANDARD OF CARE ~65,000 Treatable US + EUS	CAUSE LOF mutations in AXIN1 or APC tumor suppressor	enes	A.
Substantial need for developing therapeutics for patients harboring mutations in AXIN1 or APC, as these mutations are considered undruggable To our knowledge, REC-4881 is the only industry 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 cano • MEK inhibitor, small molecule • Oral dosing	 Phase 2 initiated late 2023 FPI expected Q1 2024 Initial readout expected H1 2025 	Gross mor	phology of HCC

Clinical: AXIN1 or APC LILAC Clinical Trial : REC-4881 for AXIN1 or APC mutant cancers Phase 2

Expect FPI in Q1 2024



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



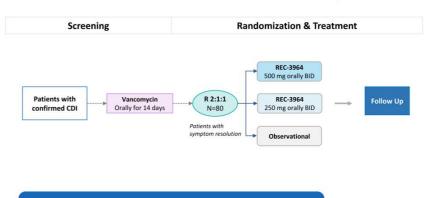
Clinical: C. Difficile Planned Proof of Concept Phase 2 Design

Enrollment Criteria

- High-risk of CDI
- ≥3 bowel movements in 24 hours
- Confirm CDI using EIA (toxin)
- No fulminant CDI
- No history of chronic
- diarrheal illness due to other causes

Outcome Measures

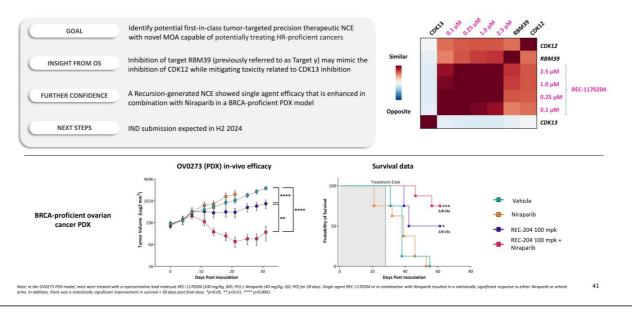
- Primary
- Rate of recurrence
 Secondary
- Secondary
 Additional efficacy
 - measures
 - Safety / tolerability
 - PK



Trial Update

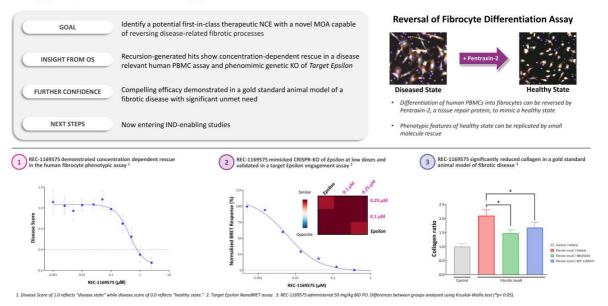
- NHV DDI study will proceed initiation of Phase 2 POC
- Study designed to rapidly demonstrate proof of concept
- Phase 2 initiation expected in 2024

RBM39: HR-Proficient Ovarian Cancer & Other Solid Tumors



Preclinical: Undisclosed Indication in Fibrosis

Target Epsilon: Novel Approach for Fibrotic Diseases





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
- Already testing and improving causal models using patientcentric data from Tempus collaboration
 Creation of LOWE (LLM Orchestrated Workflow Engine)

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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 collaboration 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 Cancers RBM39 in H2 2024
 - In-licensed program from Bayer (Target Epsilon) for a novel target in fibrotic diseases now entering IND-enabling studies
- 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

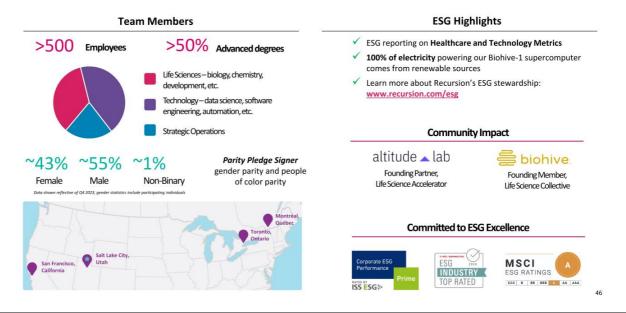
- Potential for option exercises for map building initiatives and partnership programs
- Potential for additional partnership(s) in large, intractable areas of biology (CV/Met)
- Potential to make some data and tools available to biopharma and commercial users
- Recursion OS moves towards autonomous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

Strong Financial Position \$392M in cash YE 2023

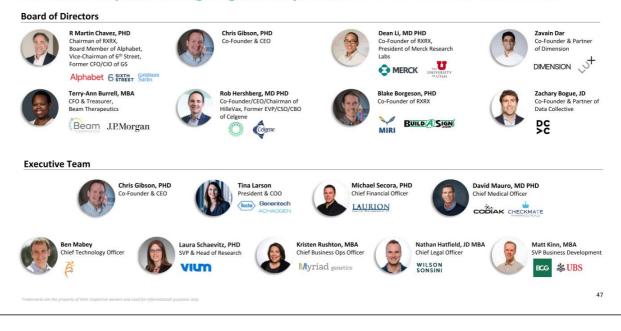
Cash refers to cash and cash equivalents at the end of Q4 2023

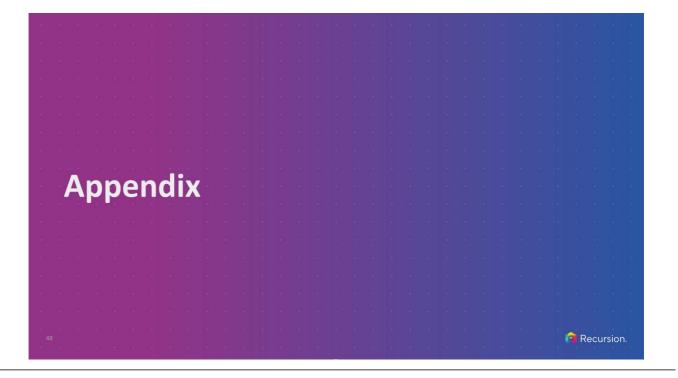
🗿 Recursion

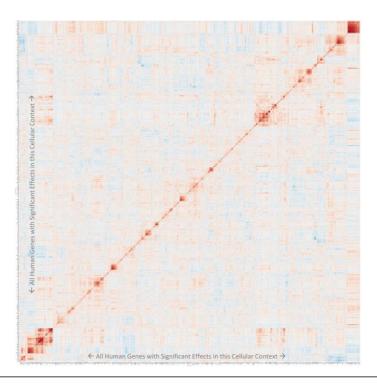
What it takes to make this happen - a new kind of team and culture



Our leadership team brings together experience & innovation to lead TechBio







Genome-scale mapping

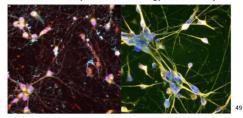
This is a **whole-genome arrayed CRISPR knock-out Map** generated in primary human endothelial cells

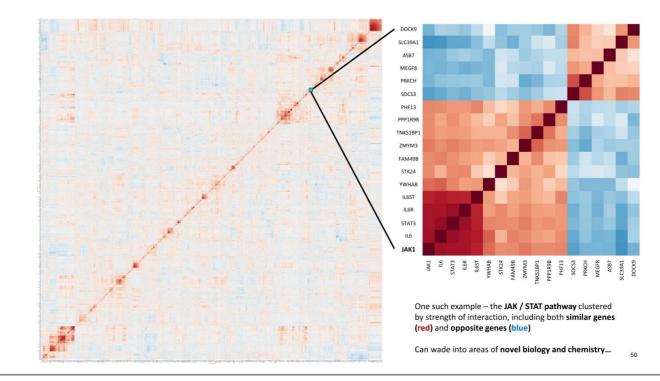
Every gene is represented in a pairwise way (each is present in columns and rows)

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





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

Drug	Prediction	Correct?	
Hydroxychloroquine	Negative	\checkmark	
Lopinavir	Negative	\checkmark	
itonavir	Negative	\checkmark	
Remdesivir	Positive	\checkmark	
Baricitinib	Positive	\checkmark	
Tofacitinib	Positive	\checkmark	
Fostamatinib	Positive	\checkmark	
Ivermectin*	Negative	\checkmark	
Fluvoxamine	Negative	\checkmark	
Dexamethasone	Negative	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. Fostamatinib recently read out positive Ph3 results in COVID but was discontinued in ACTIV-4. Hists/Iwenk borvia var/content/10.1107/200.04.21.05487V1

- Recursion conducted several Al-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.

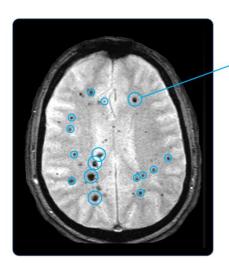


Lopinavir-ritonavir in patients admitted to hospital with COVID-19 (RECOVERY): a randomised, controlled, open-label, platform trial

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

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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

.

- 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

~360,000

Symptomatic US + EU5 patients

Sources: Angioma Alliance ; Flemming KD, et al. Population-Based Prevalence of Cerebral Covernous Malformations in Older Adults: Mayo Clinic Study of Aging, JAMA Neurol. 2017 Jul 1;74(7):801-805. doi: 10.1001/jonaneurol.2017.0439. PMCD: PMC38473; al Cerebral Covernous Malformations: An Update on Prevalence, Malexular Genetic Analyses, and Genetic Counselling. Mol Syndromol. 2018 Feb;9(2):60-69. doi: 10.1159/000486292. Epub 2018 Jun 25. PMID: 2593473; PMCD: PMC3846221. aler S. et

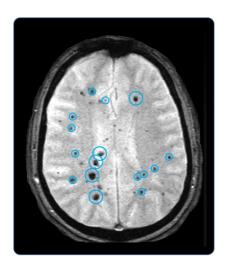
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Clinical: CCM Disease Overview : CCM is an Under-Appreciated Orphan Disease

Non-oncology Orphan Indication	Product	U.S. + EU5 Prevalence
Cerebral cavernous malformation (CCM)	REC-994 (Recursion)	>1,800,000 (Symptomatic: ~360,000)
Idiopathic 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

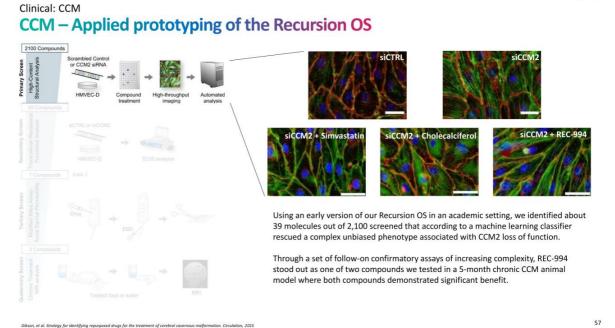
Sources: Angiona Allionce ; Flemming KD, et al. Population-Based Prevolence of Cerebral Covernous Molformations in Older Adults: Mayo Clinis Study of Aging, IAMA Neurol. 2017 Jul 1;74(7):803-805. doi: 10.1001/jomaneurol.2017.0139. PMID: 28492932; PMICD: PMCS647865 ; Speigler S, et al Cerebral Covernous Molformations in Older Adults: Mayo Clinis Study of Aging, IAMA Neurol. 2017 Jul 1;74(7):803-805. doi: 10.1001/jomaneurol.2017.0139. PMID: 28492932; PMICD: PMCS647865 ; Speigler S, et al Cerebral Transmission Adults: Mayo Clinis Study of Aging, IAMA Neurol. 2017 Jul 1;74(7):803-805. doi: 10.1001/jomaneurol.2017.0139. PMID: 28492932; PMICD: PMCS647865 ; Speigler S, et al Cerebral Transmission Adults: Mayo Clinis Study of Aging, IAMA Neurol. 2017 Jul 1;74(7):803-805. doi: 10.1001/jomaneurol.2017.0139. PMID: 28492932; PMICD: PMCS647865 ; Speigler S, et al Cerebral Transmission Adults: Mayo Clinis Study of Aging, IAMA Neurol. 2017 Jul 1;74(7):803-805. doi: 10.1001/jomaneurol.2017.0139. PMID: 28492932; PMICD: PMCS647865 ; Speigler S, et al Cerebral Transmission Adults: Advance and prevalence of dispettive pulmonary fiftmanet (CEREBRACE) (CEREBRACE

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 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

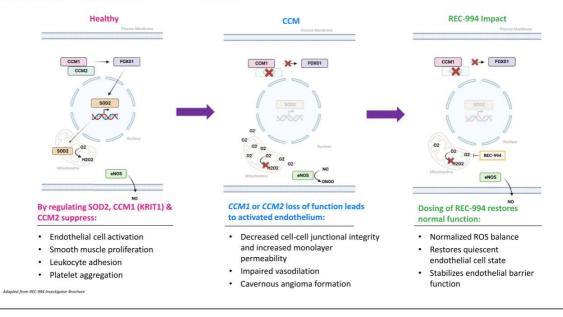


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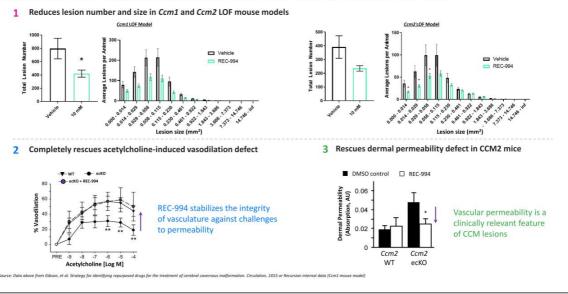
Clinical: CCM REC-994 – Mechanism of Action



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 Cavernous 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 superoxide scavenger

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/neurofibromatosis-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

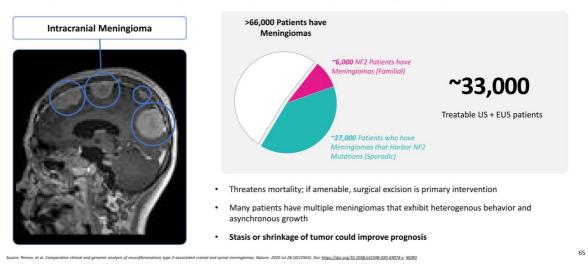
No Approved Medical Therapy

- 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

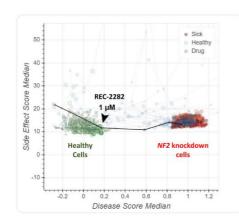
Clinical: NF2

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



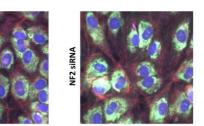
Clinical: NF2 Insight from OS : REC-2282 Rescued Loss of NF2



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

REC-2282 identified as rescuing HUVEC cells treated with NF2

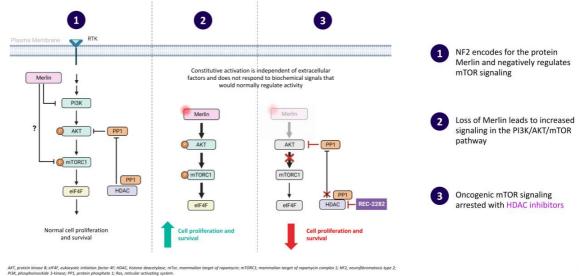
Control





Clinical: NF2 REC-2282 – Mechanism of Action

Orally Bioavailable, CNS-penetrating, Small Molecule HDAC Inhibitor

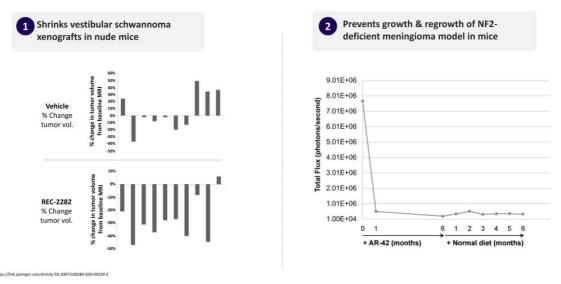


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Clinical: NF2

Further Confidence : Preclinical Studies Confirming Insight

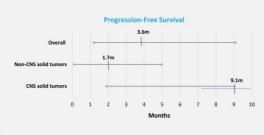
REC-2282 preclinical studies demonstrated clear in-vivo efficacy in multiple NF2 tumor types



Clinical: NF2 Further Confidence : Prior Studies 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

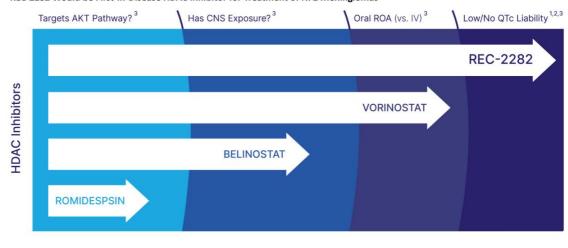


	Multiple investigator-initiated studies in oncology indications
Ŷ	Lengthy human clinical exposure in NF2 – multiple patients on drug for several years
a	Well-characterized side effect profile
wi	th a drug-like profile
wi	Established and scalable API manufacturing
wi	
wi	Established and scalable API manufacturing process Multiple cGMP batches of 10mg and 50mg

Well understood clinical safety ...

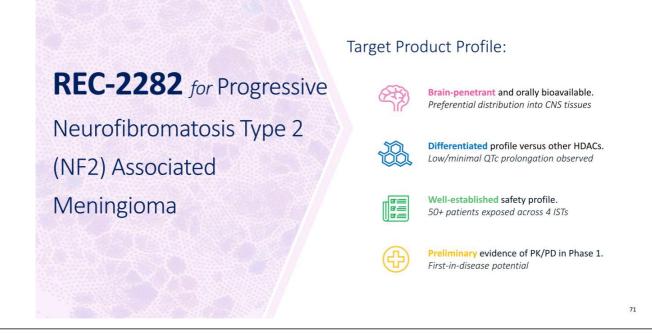
Clinical: NF2 REC-2282 Appears Well Suited for NF2 vs Other HDAC Inhibitors

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



¹Shorov DW, et al. A phase 1 trial of the HDAC inhibitor AR-42 in patients with multiple myeloma and T- and B-cell lymphomas. Leuk Lymphoma. 2017 Oct;58(10):2310-2318. ¹Coller KA, et al. A phase 1 trial of the histone desceptase inhibitor AR-42 in patients with neurofibromatosis type 2-associated tumors and advanced solid malignancies. Cancer Chemother Pharmacol. 2021 May;87(5):599-611 ^{*}Pierscribent information of Vorinosizatie insteactive insecutively

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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 Cohort A 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)

Target / MOA	MEK Inhibitor
Molecule Type	Small Molecule
Lead Indication(s)	Familial Adenomatous Polyposis
Status	Phase 1b/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

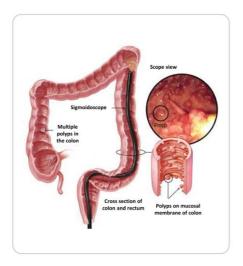
- Autosomal dominant tumor predisposition syndrome caused by a mutation in the APC gene
- Classic FAP (germline mutation) :
 - Hundreds to thousands of polyps in colon and upper GI tract
 - Extraintestinal manifestations (e.g., desmoid tumors)
 - 100% likelihood of developing colorectal cancer (CRC)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



Diagnosed US + EU5 patients

ps://www.hopkinsmedicine.org/health/conditions-and-diseases/familial-adenomatous-polyposi

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



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

No Approved Medical Therapy

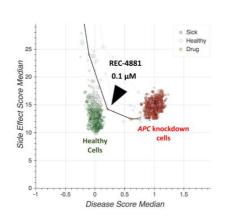
- Standard of care: colectomy during adolescence (with or without removal of rectum)
- Post-colectomy, patients still at significant risk of polyps progressing to GI cancer
- Significant decrease in quality-of-life post-colectomy: continued endoscopies and surgical intervention

"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

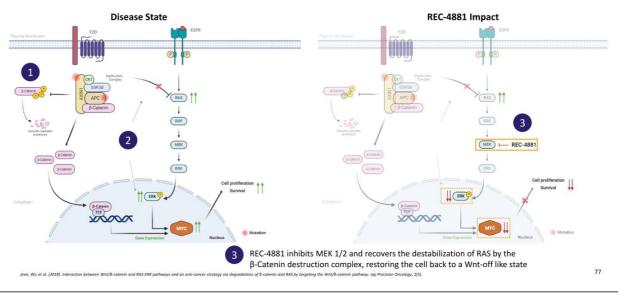
REC-4881 rescued phenotypic defects of cells with APC knockdown



- 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

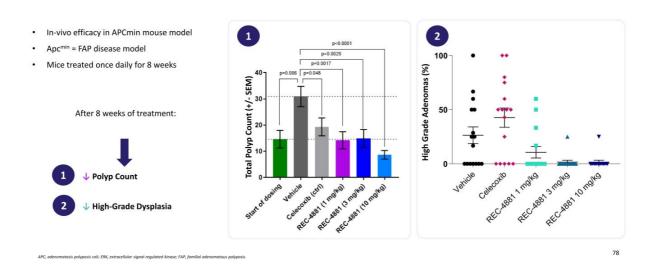
MoA : REC-4881 Blocks Wnt Mutation Induced MAPK Signaling

Orally Bioavailable, Small Molecule MEK Inhibitor



Clinical: FAP

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

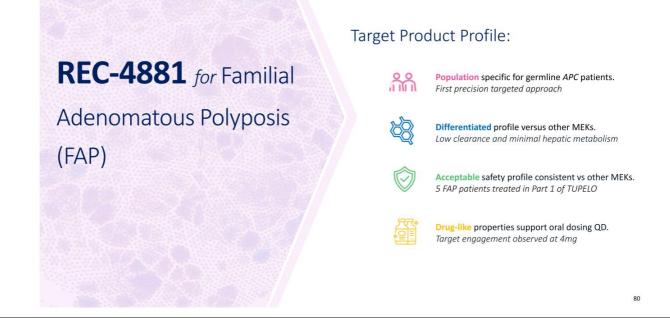


Clinical: FAP Further Confidence : Clinical Data Generated by Recursion

Recursion formulation yields exposures comparable to Takeda's formulation (molecule in-licensed from Takeda)
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

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

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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 1b/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 initial 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 tumor

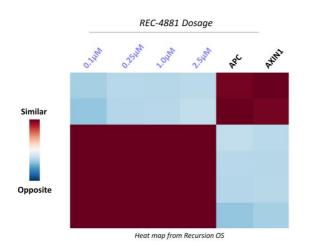
¹Bugter, J.M., et al. Nat Rev Cancer, 2021, 21, pp.5-21

- 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 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

CRC LUAD Prostate	3% 4%	70% 11%	27,450	 AXIN1 and APC genes covered by commercially available N panels and liquid biopsy detection assays
Prostate	4%	110/		, , , , , , ,
		1170	14,000	FDA guidance supports utility of ctDNA as patient selectio
	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
Esophageal	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
тивс	1%	2%	300	cancer types

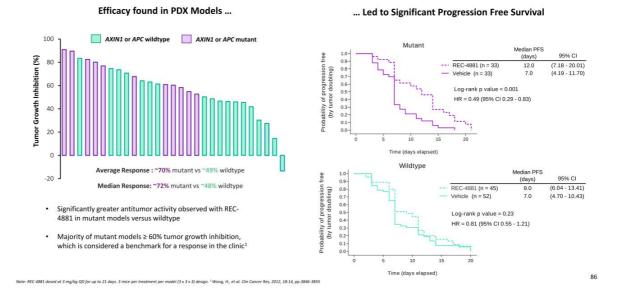


Hypothesis: Rescue of *AXIN1* may impact tumor progression and/or restore checkpoint sensitivity in cancers driven by *AXIN1* loss

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 Recursion's first clinical trial in oncology and the first that used inferential search for hypothesis generation
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
.ead 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

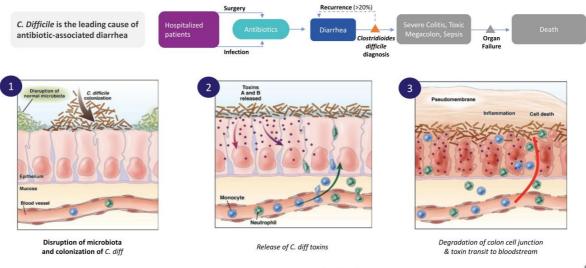
Large, Unmet Need with Significant Cost Burden

- 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

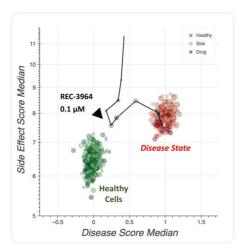
Clinical: C. difficile Disease Overview : C. Difficile Infection (CDI)



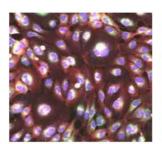
Source: McCollum, D., Rodriguez, JM. Detection, Treatment, and Prevention of Clostridium difficile Infection. Clinical Gastroenterology and Hepatology 2012 Mor 19. https://doi.org/10.1016/j.cgh.2012.03.008

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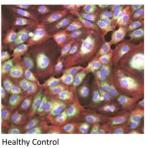
Clinical: C. difficile Insight from OS : REC-3964 Rescued Cells Treated with C. difficile Toxins



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



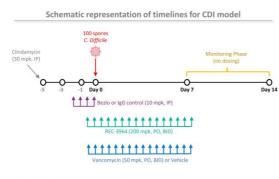
C. difficile toxin B phenotype



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

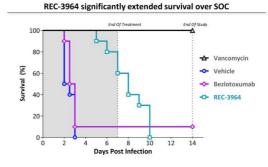
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REC-3964 is Superior to Bezlotoxumab in a Human Disease Relevant CDI Hamster Model



- 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

²Lyras, 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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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

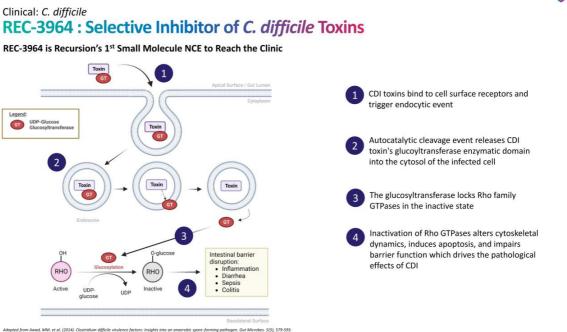
- REC-3964 oral administration was well tolerated by all subjects tested
 - ✓ 3% (n=1) of participants in SAD with drug-related AEs
 - ✓ 12% (n=4) of participants in MAD with drug-related AEs
 - All AEs were deemed Grade 1
 - No SAEs were observed ~
 - No discontinuations related to treatment ~
 - REC-3964 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

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 ≥ 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 = Fatal

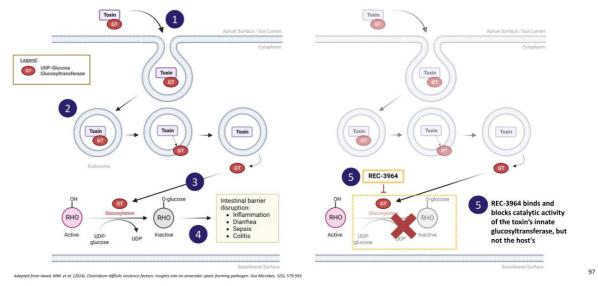
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REC-3964 is Recursion's 1st Small Molecule NCE to Reach the Clinic



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

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

First-in-class potential for prevention of rCDI

Program Overview	 Orally bioavailable, small molecule <i>C. difficile</i> 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

RBM39 Inhibition for the Treatment of HR-Proficient Ovarian Cancer and Other Solid Tumors

Target / MOA	RBM39 Molecular Glue Degrader		
Molecule Type	Small Molecule		
Lead Indication(s)	HR-Proficient Cancers		
itatus	Pre-IND		
Source of Insight	Recursion OS		

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Target Product Profile: **RBM39** Degradation ໍາຳຳ **Opportunity** to address high unmet need. PARP naïve and PARP resistant population for HR-Proficient Ovarian Monotherapy label with combination potential. Cancer & Other Solid Tumors Acceptable TI in human cancer xenografts Encouraging safety and tolerability profile. Minimal off-target effects vs first-gen molecules Robust RBM39 degradation correlated with benefit. FIH studies enable rapid clinical path to POC

RBM39 Program for HR-Proficient Ovarian Cancer & Other Solid Tumors

Lead candidate is a potential first-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	 ~200,000 patients in US and EU5 harbor cancers that lack HRR mutations and have progressed on frontline therapies First-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



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; 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, including augmentation of our dataset; 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 on Form 10-K for the Fiscal Year ended December 31, 2023. 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.

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What is L(earnings) and why are we starting this practice now?

VS.

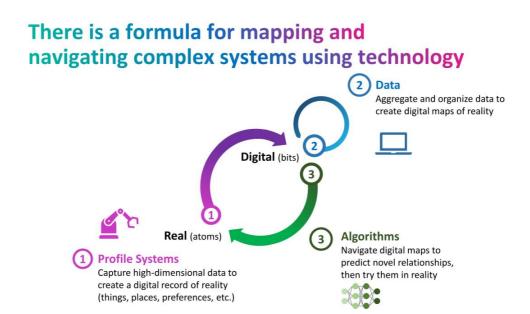
Traditional Earnings Scripted, Boring, Hard to access



L(earnings) Authentic, Adaptive, Easy to access



TechBio Origins -One Decade Ago



Data roadblocks made mapping and navigating biology difficult

Analog Standard

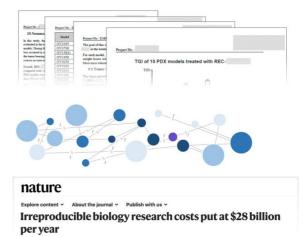
The fax machine is alive and well in medicine, while in biopharma, study results from CROs are still often reported as PDFs or scanned printouts

Siloed Data in Pharma

Biopharma has 100s of petabytes of scientific data stored on a project-byproject basis without the meta-data or annotation needed to relate it to other projects or questions in biology

Reproducibility Crisis

Multiple studies have shown that the vast majority of published academic literature cannot be recapitulated



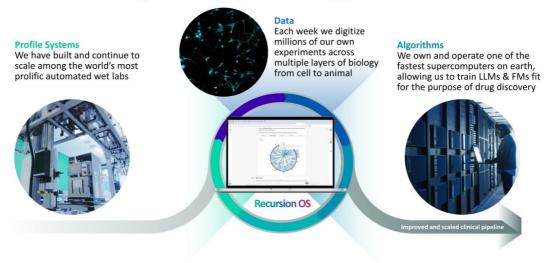
Trademarks are the property of their respective owners and used for informational purposes only. Baker, M. Irreproducible biology research costs put at \$28 billion per year. Nature (2015). https://doi.org/10.1038/nature.2015.17711

Why was the early-2010s the time for a stepfunction change in biotech?

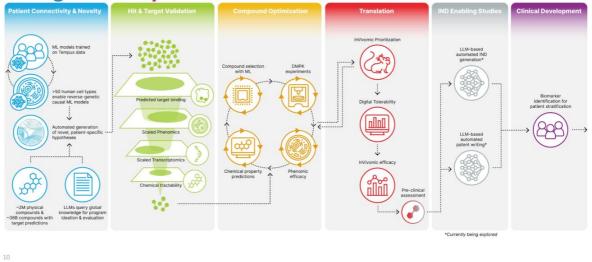


Fast Forward to Today

We are building and aggregating the right datasets to map and navigate biology



The Recursion OS combines many tools to industrialize drug discovery



Leading in TechBio in 2024

PIPELINE

- First Generation: Five Phase 2 programs enrolling or soon to enroll patients focused in niche rare disease indications
- Second Generation: Multiple preclinical programs and dozens of discovery stage programs focused in precision oncology

PARTNERSHIPS

- Bio: Large discovery collaborations with Roche/Genentech and Bayer in Neuroscience and Oncology
- Tech: Large data collaboration with Tempus, compute collaboration with NVIDIA and chemistry collaboration with Enamine

PLATFORM

- >50 Petabytes of proprietary biological and chemical data spanning cells to animals to patients
- Fastest supercomputer wholly owned and operated by any biopharma
- >2M experiment/week capacity spanning multiple-omics layers





2023 Year in Review

May – Platforms: Acquisitions bolster digital chemistry and generative AI capabilities



- Enhance the optimization of Recursion's compounds for efficacy while minimizing liabilities
- Rapidly advance the diversification and discovery of novel chemical matter
- Enables mechanism of action deconvolution and generative chemistry



- Enable acceleration of generative design of new molecules, DMPK predictions, and more
- Combined data generation will support work on building foundation models
- Will become a center for cutting-edge applied AI/ML research across chemistry and biology

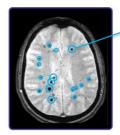
June – Pipeline: REC-994 for CCM Phase 2 Completed Enrollment



- First therapeutic candidate advanced to an industry-sponsored Phase 2 trial (SYCAMORE) for CCM
- Fully enrolled ahead of schedule in June 2023 with 62 patients across 3 arms in a 1:1:1 randomization
- Majority of patients treated with REC-994 for \ge 12 months continue to opt into LTE portion
- Favorable safety and tolerability profile in Phase 1 dose-escalation with no DLTs and no SAEs
- First-in-disease potential with ODD granted in US and EU

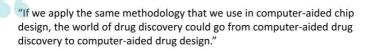
Phase 2 Readout

Q3 2024 Safety, preliminary efficacy, and pharmacokinetics



Cavernomas in the brain and spinal cord

July – Partnership: Our NVIDIA Partnership Announcement



"If I were to start from nothing I would do it the way Recursion does it, the systematic way of generating data, I think it's an excellent method which is the reason why we're an investor. I think it's smart approach."

Jensen Huang Founder and CEO, NVIDIA



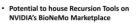


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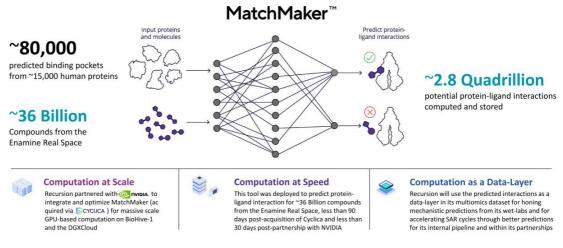
\$50M Equity Investment Partnership on advanced computation (e.g., foundation model development)

Priority access to compute hardware or DGXCloud Resources



Released Phenom-Beta, a phenomics foundation model in January 2024

August – Platform: Bridging Protein and Chemical Space with Massive Protein-Ligand Interaction Predictions



September – Pipeline: Phase 1 Study for REC-3964 Complete

Release Details

Recursion Announces Completion of Phase 1 Study for REC-3964 for Clostridioides Difficile Infection September 5, 2023 at 7:59 AM EDT

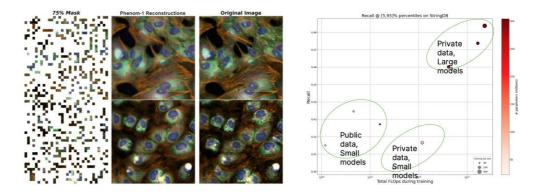
- REC-3964 was safe and well tolerated at multiple doses up to 900 mg
- No SAEs observed and no discontinuations related to treatment
- Favorable PK profile with exposures (AUC) increasing approximately dose-proportionally
- REC-3964 exposures were comparable between healthy elderly subjects and those aged ≤ 65 years
- No clinically relevant changes in hematology, chemistry, ECG, or vital signs post REC-3964 doses





September – Platform: Recursion built Phenom-1, the world's largest phenomic foundation model

The combination of **scaled data generation** and **accelerated computing** is a key to advancing biological ML



November – Platform: BioHive expansion with ambition to be #1 supercomputer in pharma



Expand BioHive-1 from:

- 320 NVIDIA A100s...
- ...to include an additional
- 504 NVIDIA H100s

With operations beginning H1 2024

Likely to be the highest performing compute cluster owned and operated by any biopharma company on earth and among the top 50 compute clusters on the Top500 list.





October – Partnership: Roche exercises its option on the first program under our collaboration

"Through collaborations, we maximize the opportunity to nucleate and advance novel insights towards medicines"

- Barbara Lueckel, Head of Research Technologies, Roche Pharma Partnering



September 22, 2022



•

Roche We Innovate Healthcare Genentech and Roche's partnership with Recursion exemplifies the power of leveraging large-scale data using advanced computational methods, and the possibilities that come to fruition when several organizations work together.*

*Roche "Scaling up Drug Discovery" article, Sept 2022

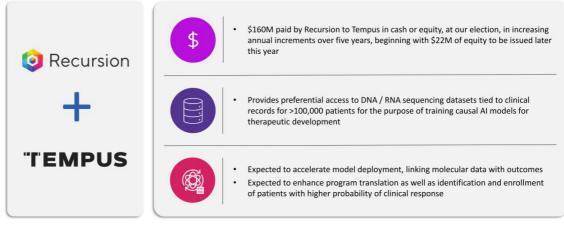
Roche exercises its Small Molecule Validated Program Option

Hit series identified using fit-for-purpose oncology map

 Recursion will continue to take the lead in advancing the program, leveraging the Recursion OS and its suite of digital chemistry tools with the support and collaboration of Roche

November – Partnership: Recursion partners with Tempus

Proposed accelerates clinical platform capabilities with ~50 PB of proprietary biology, chemistry, and translational precision medicine data purpose-built for AI / ML



November – Partnership: Update of existing Bayer collaboration towards strategic interest in precision oncology

"The methodology in which Recursion uses artificial intelligence (AI) in drug discovery, could be one of the most disruptive technologies of our time... As our collaboration and the usage of AI continue to evolve, we look forward to continuing to work with industry innovators to identify novel targets for oncology indications."

- Juergen Eckhardt, M.D.

Member of the Executive Committee of Bayer's Pharmaceuticals Division Head of Business Development, Licensing & Open Innovation and Head of Leaps by Bayer.

Go-Forward Collaboration

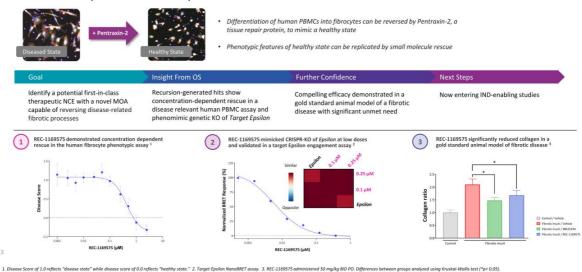


Companies may initiate up to 7 new oncology programs Recursion is eligible to receive potential, success-based future payments of up to \$1.5 billion plus royalties on net sales

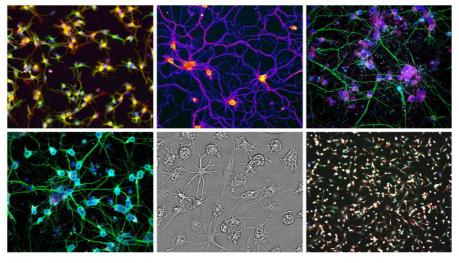
Designed to leverage advancements in Recursion OS platform since partnership inception

December – Pipeline: Novel Approach for Fibrotic Diseases in-licensed from Bayer

Reversal of Fibrocyte Differentiation Assay



December – Platform: Over 1 trillion hiPSCderived neuronal cells produced since 2022



Our pipeline reflects the scale and breadth of our approach

	Program	Indication	Target	Patient Population	Preclinical	Phase 1	Phase 2	Phase 3
Oncology Rare & Other	REC-994	Cerebral Cavernous Malformation	Superoxide	~ 360K ¹	Ph2 readout in Q3, 2024		24	
	REC-2282	Neurofibromatosis Type 2	HDAC	~ 33K ²	Ph2 safety and pr	reliminary efficacy re	adout in Q4, 2024	
	REC-4881	Familial Adenomatous Polyposis	MEK	~ 50K ³	Ph2 safety and p	reliminary efficacy re	adout in H1, 2025	
	REC-3964	Clostridioides difficile infection	TcdB	~730K	Ph2 i	initiation in 2024		
	Epsilon	Fibrotic Diseases	Undisclosed	~ 50K ^{4,5,6}				
	REC-4881	AXIN1 or APC Mutant Cancers	MEK	~ 65K ⁷	Ph2 safety and prelim	ninary efficacy readout	in H1, 2025	
	RBM39	HR-Proficient Ovarian & Solid Tumors	RBM39	~ 200K ⁸				

More than a dozen discovery and research programs in oncology or with our partners

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 sporadic symptomatic population. (2) Annual US and EUS incidence for all NF2-driven meningiomas. (3) Prevalence for adult and pediatric population. (4) Our program has the potential to address several indications. (5) We have not finalized a target product profile for a specific indication. (6) Incidence for US only. (7) 2L drug-treatable population. (8) 2L drug-treatable population comprising ovarian, prostate, breast, and pancreatic cancers with no HRR mutations.



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 Furtherm, Brend Institute of Herrord and MIT, Cambridge, MeansCaustern, USA, "Recursion Pharmacroticals, Sult Lake Carp, Utah, USA, ¹Center for the Science of Theoremetic, Broad Institute of Herrord and MIT, Cambridge, Manachusetta, USA, Carrespondence should be addressed to CCC, GL, Older, Budderin Caroninghamacrosoft, Branca and MLE, Cambridge, Manachusetta, USA, Carrespondence should be addressed to CCC, GL, Older, Budderin Caroninghamacrosoft, Branca and MLE, Cambridge, Manachusetta, USA, Carrespondence should be addressed to CCC, GL, Older, Budderin Caroninghamacrosoft, Branca and MLE, Cambridge, Manachusetta, USA, Carrespondence advandable and advance and the science of the scienc

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

Patinte divie 23 August 2016, escil: 51.01/page.2016.155 Is imarphological, profiling, sumitative data are extracted from microscopy images of cells to identify biologically relevant is provided and the extra strain of the extra strain of the profiler. This protocol describes the design and association of pagements using coll Painting, which is a nonphological profile paracy phase multiplane six informations that is channels, to revale sight broadly relevant collular components or organelise. Cells are plated in multitwell plates, perturbed treatments to be studied, studied, and maged on a sight-throughput microscope. Next, an automated image analysis is identifies individual cells and measures -1,500 morphological features (various measures of six, shape, turtures, intensity, is on 10 produce at chip orfice that is usuable for the detection of subtle phanetypes. Fredites of cell populations treated different experimental perturbations can be compared to suit many goals, such as identifying tip attracts of diseases Cell culture and image acquisition takes 2 weeks; feature extraction and data analysis take an additional 1-2 weeks.

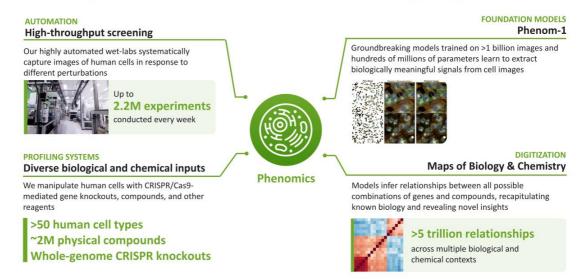
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Bdu discuss morphological profiling (also known filing), contrast it with conventional image-

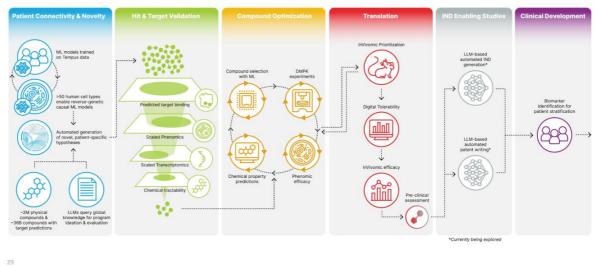
INTRODUCTION IDENTIFY OF A Second Procession Control 1 (Figure 1) (Figure 2) (Figur

As these point solutions evolve they increase in complexity and scale

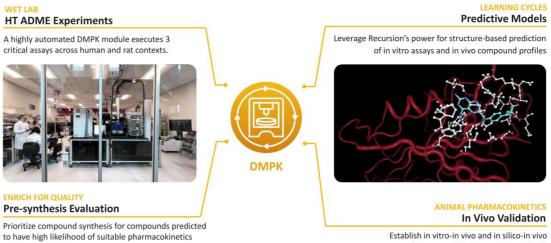




To truly industrialize drug discovery, point solutions must be integrated as modules across many diverse steps

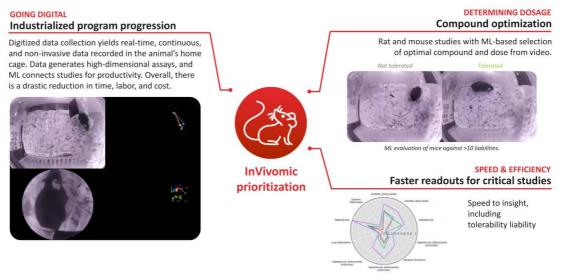


Each module is complex, and we continuously improve them

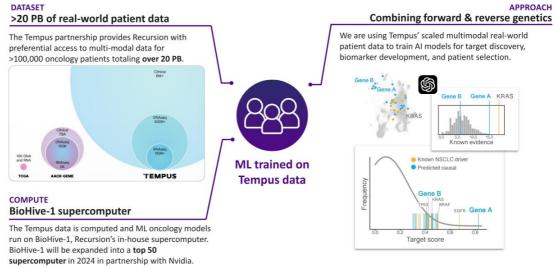


Establish in vitro-in vivo and in silico-in vivo correlations to minimize experimental toil.

Utilizing each module requires specialized teams and expertise



We continuously add new modules to improve the Recursion OS



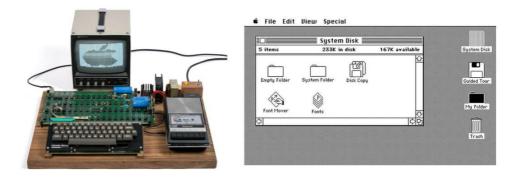
The result is a palette of ever-evolving sophisticated modules





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

...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...



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

- Potential for additional INDs
 - HR-Proficient Cancers RBM39 in H2 2024
 - In-licensed program from Bayer (Target Epsilon) for a novel target in fibrotic diseases now entering INDenabling studies
- Expected Ph2 trial starts
 - 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

Strong Financial Position \$392M in cash YE 2023

Cash refers to cash and cash equivalents at the end of Q4 2023

