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): June 24, 2024

RECURSION PHARMACEUTICALS, INC.

(Exact name of registrant as specified in its charter)

Delaware (State or other jurisdiction of incorporation)

001-40323 (Commission File Number) 41 S Rio Grande Street Salt Lake City, UT 84101
(Address of principal executive offices) (Zip code) 46-4099738

(I.R.S. Employer Identification No.)

(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:

- $\hfill \Box$ Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)
- ☐ Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)
- □ Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))
- ☐ Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

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

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

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

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

Item 7.01. Regulation FD Disclosure.

On June 24, 2024, Recursion Pharmaceuticals, Inc. (the "Company") issued a press release related to announcements made during its Download Day investor meeting. The press release is attached as Exhibit 99.1 to this Current Report on Form 8-K and incorporated into this Item 7.01 by reference.

Also on June 24, 2024, the Company released an updated investor presentation. The investor presentation will be used at its Download Day investor meeting and from time to time in meetings with investors. A copy of the presentation is attached hereto as Exhibit 99.2 to this Current Report on Form 8-K and incorporated into this Item 7.01 by reference.

The information furnished in this Item 7.01 (including Exhibit 99.1 and 99.2), shall not be deemed "filed" for purposes of Section 18 of the Securities Exchange Act of 1934, as amended (the "Exchange Act"), or otherwise subject to the liabilities of that section, nor shall it be deemed incorporated by reference in any filing under the Securities Act of 1933, as amended, or the Exchange Act, except as expressly set forth by specific reference in such filing.

Item 9.01. Financial Statements and Exhibits.

(d) Exhibits

Exhibit Number	Description
99.1	Press Release of Recursion Pharmaceuticals, Inc. dated June 24, 2024.
99.2	Investor Presentation of Recursion Pharmaceuticals, Inc. dated June 24, 2024.
104	Cover Page Interactive Data File (embedded within the Inline XBRL document)

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized on June 24, 2024.

RECURSION PHARMACEUTICALS, INC.

By: /s/ Michael Secora

Michael Secora Chief Financial Officer

Recursion Gives Guidance on Seven Clinical Readouts within ~18 Months and Partnership Updates at Its Download Day

- Recursion delivered multiple data packages to Bayer and initiated the first joint oncology project, which is now expected to advance rapidly towards Lead Series nomination
- Bayer to become first external beta-user of LOWE (LLM-Orchestrated Workflow Engine) for drug discovery and development

SALT LAKE CITY, (June 24, 2024) – Recursion (NASDAQ: RXRX), a leading clinical stage TechBio company decoding biology to industrialize drug discovery, will give updated pipeline guidance to investors, analysts, and other stakeholders during Download Day, Recursion's investor and R&D day, on Monday, June 24, 2024.

"Since our last Download Day, which was approximately 18 months ago, we have seen various industries increasingly embrace Al/ML solutions. This adoption has also played out in the drug discovery space," said Chris Gibson, Ph.D., Co-Founder and CEO of Recursion. "Over the past decade, we have created a strong leadership position by building the technological and operational capabilities of our platform in order to expand and advance our internal pipeline as well as deliver for our external partners through the integrated use of data, compute, and automation. We look forward to highlighting the various aspects of the Recursion value proposition at Download Day."

The event will feature a number of prominent speakers, including Jensen Huang, founder and CEO of NVIDIA, Deepak Nijhawan, M.D., Ph.D., UT Southwestern Distinguished Chair in Biomedical Science, and John Marioni, Ph.D., Senior VP and Head of Computational Sciences at Genentech.

Updated pipeline guidance:

- Seven Clinical Trial Readouts expected within approximately 18 months:
 - o REC-994 Cerebral Cavernous Malformation—topline Phase 2 data readout in September 2024;
 - o REC-2282 Neurofibromatosis Type 2—preliminary Phase 2 data readout in the fourth quarter of 2024,
 - o REC-4881 Familial Adenomatous Polyposis—preliminary Phase 2 data readout in the first half of 2025;
 - o REC-4881 Advanced AXIN1/APC-Mutant Cancers—preliminary Phase 2 data readout in the first half of 2025;
 - o REC-3964 Clostridioides difficile Infection—Phase 2 study initiation in the fourth quarter of 2024 and preliminary data readout by the end of 2025;
 - RBM39 Advanced HR-Proficient Cancers—IND submission in the third quarter of 2024, Phase 1/2 initiation in the fourth quarter of 2024 and Phase 1 dose-escalation data readout by the end of 2025;
 - o Target Epsilon (Fibrotic Diseases)—IND submission in early 2025 and Phase 1 healthy volunteer study data readout by the end of 2025.

• Dozens of internal and partner programs in early stages with the first LLM and causal model driven programs entering the Recursion pipeline.

Partnership updates:

- Bayer will be the first beta-user of our LOWE LLM-orchestrated workflow software, which will be integrated across the collaboration and offer a more exploratory, and intuitive research environment for scientists on both sides.
- Additional updates pertaining to the Bayer partnership include:
 - o We initiated our first joint oncology project which is now expected to advance rapidly towards Lead Series nomination; and
 - o We are on track to complete 25 unique multi-modal data packages that we expect to deliver in the third quarter of 2024.

Platform updates:

- ADME industrialization: potential to achieve an estimated 90 times the amount of lab throughput over a manual approach.
- Built our first genome-scale transcriptomics knockout map.
- Multimodal mapping has enabled us in certain experiments to achieve 90% success on our ability to predict compounds that failed later disease-relevant assays in internal tests and 60% ability to predict compounds that passed later disease-relevant assays in internal tests.
- Helix partnership brings hundreds of thousands of unique de-identified patient records across diverse therapeutic areas.

About Recursion

Recursion is a leading clinical stage TechBio company decoding biology to industrialize drug discovery. Central to its mission is the Recursion Operation System (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 what Recursion believes is one of the fastest supercomputers deployed in the sector, 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, London 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

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, Recursion's anticipated Download Day presentations; Recursion's ability to decode biology and industrialize drug discovery; the technological and operational capabilities of Recursion's platform; advancement of Recursion's internal pipeline and the ability to deliver for its external partners; the advancement of a joint oncology project rapidly towards Lead Series nomination; Bayer becoming the first external beta-user of LOWE and integrating software across the collaboration; the timing for completing 25 unique multi-modal data packages; the timing of IND submissions, clinical trial initiations, and clinical trial readouts; realizing dozens of LLM and causal model driven programs entering the Recursion pipeline; the performance expectations for Recursion's platform, including 90x of lab throughput over a manual approach, building Recursion's first genome-scale transcriptomics knockout and multimodal mapping expected capabilities and achievements; Recursion's continuous expansion of datasets and advancement of the future of medicine; 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," "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 leverage and enhance our drug discovery platform; our ability to obtain financing for development activities and other corporate purposes; the success of our collaboration activities; our ability to obtain, regulatory approval of, and ultimately commercialize, drug candidates; our ability to obtain, maintain, and enforce intellectual property protections; cyberattacks or other disruptions to our technology systems; our ability to attract, motivate, and retain key employees and manage our growth; inflation and other macroeconomic issues; and other risks and uncertainties such as those described under the heading "Risk Factors" in our fillings with the U.S. Securities and Exchange Commission, including our Annual Report on Form 10-K and Quarterly Report on Form 10-Q. All forward-looking statements are based on management's current estimates, projections, and assumptions, and Recursion undertakes no obligation to correct or update any such statements, whether as a result of new information, future developments, or otherwise, except to the extent required by applicable law.





Agenda

Breakfast & Arrival at Recursion (Upper Level)

8:30 am - 9:30 am

Morning Session

Welcome

State of Recursion Chris Gibson PhD – Co-Founder & CEO

Recursion OS Lina Nilsson PhD – Senior VP of Inception Labs

Preclinical Laura Schaevitz PhD – Senior VP and Head of Research

Fireside Chat with Deepak Nijhawan, MD, PhD
David Mauro MD PhD – Chief Medical Officer
Deepak Nijhawan MD PhD – UT Southwestern, Distinguished Chair in Biomedical
Science

Tours & Demos

Lunch & Break (Upper Level, High Throughput Feeding)

12:30 - 1:30 pm

1:30 pm - 4:30 pm

Afternoon Convocation
Najat Khan PhD – Chief R&D Officer & Chief Commercial Officer

Partnerships
Matt Kinn – Senior VP of Business Development & Corporate Initiatives
John Marioni PhD – Genentech, Senior VP and Head of Computational Sciences

Clinical Programs David Mauro MD PhD – Chief Medical Officer

Company & Milestones Michael Secora PhD – Chief Financial Officer

Fireside Chat with Jensen Huang

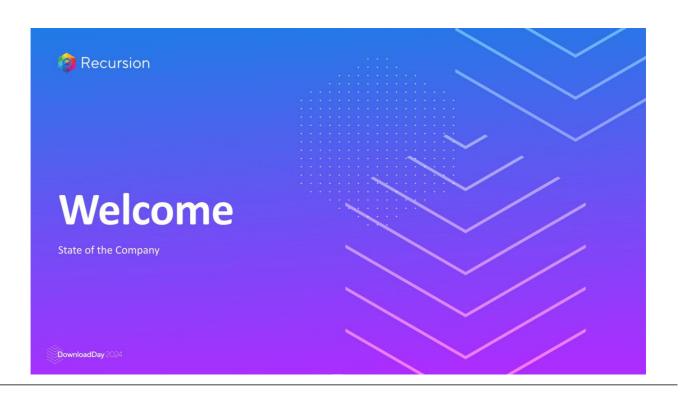
Chris Gibson PhD – Co-Founder & CEO Jensen Huang – NVIDIA, Founder & CEO

Closing Remarks Chris Gibson PhD – Co-Founder & CEO

Dinner — Mar Muntanya (Hyatt Regency)

5:00 - 7:00 pm





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," "articipate," "inclined," "certainer," "expert," "inclined," "may," "will," and similar expressions are intended to identify forward-looking statements. Froward-looking statements, "may," "will," and similar expressions are intended to identify forward-looking statements. Froward-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 Helix partnership, including the development of causal Al models and biomarker and patient stratification strategies; expected BioHive supercomputer capabilities; outcomes and benefits from licenses, partnerships and collaborations, including option exercises by partners, additional partnerships, and the 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 enrollment in studies, data readouts, and progression toward IND-enabling studies; the potential size of the market opportunity for ou

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

Cross-trial or cross-candidate comparisons against other clinical trials and other drug candidates are not based on head-to-head studies and are presented for informational purposes; comparisons are based on publicly available information for other clinical trials and other drug candidates.

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





Our Hopes for Today

Share details and updates on our:

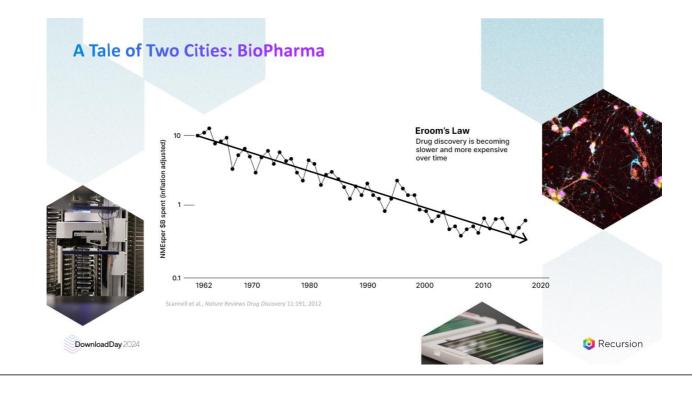
- Pipeline with 7 clinical trial readouts expected in the next ~18 months
- Partnerships with potential near term options on both maps and programs
- Platform with industry-leading data generation and compute

Help define what we view as a tipping point moment as BioTech transitions to TechBio and understand why Recursion is uniquely positioned to take advantage of this

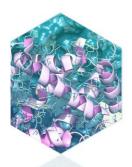
Let you get a feel for Recursion and hear from expert partners from outside Recursion about the current and potential future impact of our work







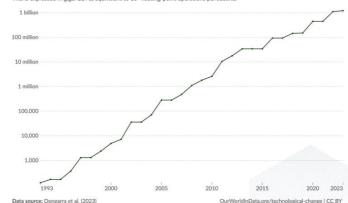
A Tale of Two Cities: Tech



Download Day 2024

Computational capacity of the fastest supercomputers

The number of floating-point operations' carried out per second by the fastest supercomputer in any given year. This is expressed in gigaFLOPS, equivalent to 10' floating-point operations per second.



. Floating-point operation: A floating-point operation (FLOP) is a type of computer operation. One FLOP represents a single arithmetic operation wolving floating-point numbers, such as addition, subtraction, multiplication, or division.



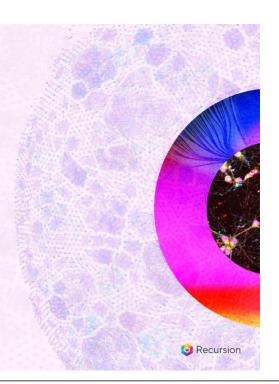


The Evolution of BioTech into TechBio

We believe the transformation of BioPharma through AI is inevitable, just as we are seeing in so many industries — we believe it is a matter of who, how and when

New types of companies have emerged that are truly "bilingual" in tech and science

Data, compute, and automation are shifting the speed, cost, and quality of novel insights today, and we are nearing the stage where we can harvest the earliest of this jump forward



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...

Download Day 2024

PROTOCOL

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

Imaging Platform, Broad Institute of Harvard and MIT, Cambridge, Massachusetts, USA. ²Recursion Pharmaceuticals, Salt Lake City, Utah, USA. ²Center for the Science of Therapeutics, Broad Institute of Harvard and MIT, Cambridge, Massachusetts, USA. Correspondence should be addressed to the Conference of the Conf

Published online 25 August 2016; doi:10.1038/nprot.2016.105

In morphological profiling, quantitative data are extracted from microscopy images of cells to identify biologically relevant similarative and differences among samples based on these profiles. This prococol describes the design and execution of experiments using Cell Painting, which is a morphological profiling assay that multipleases is fluorescent dyes, imaged in five experiments using Cell Painting, which is a morphological profiling assay that multipleases is fluorescent dyes, imaged in five treatments to be itself, and imaged on a high-throughput interscepe. Next, a major interest in the relation of the contraction of the profile interest in the contraction of the profile that is considered in the contraction of the profile that is suitable for the decision of suitable processors. All the processors of profile that is suitable for the decision of suitable processors. The compared to suit many goals, such as identifying the phenotypic impact of chemical or genetic perturbations, grouping compounds and/or genetic perturbation, grouping compounds and/or genetic perturbation.

INTRODUCTION

Phenotypic accenting has been tremendously powerful for identifying novel nuall molecules as probes and potential therapeutics, and for identifying genetic regulators of many biological process. "High-throughput microscopy has been a particularly fruiful type of phenotypic streeting it is often cailed highcontent analysis because of the high information content that not be otherwise in images? However, most large-scale imaging experiments extract only one or two features of cells, and/or am to identify inta fee of whit in a serven, meaning that was quantities

or quaintentire east about centual ratic remain unitappes.

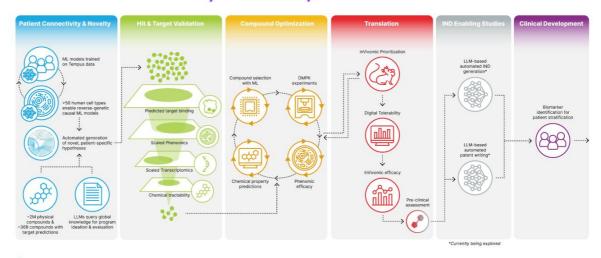
In this article, we detail a protocol for the Cell Panting assay, which is a generalizable and troudly applicable method for accessing the valuable biological information about cellular state that is contained in morphology. Cellular morphology is a potentially included to the control of th

anticancer drug sensitivity reflect mechanisms of action 12—and gene expression—in which signatures related to small molecules,

It is important to note that profiling differs from conventional screening assays in that the latter are focused on quantifying a relatively small number of features selected specifically because of a known association with the biology of interest. Profiliation with the other hand, casts a much wider net, and avoids the intensite suctionazion to that is usually necessary for problem-specific and development in favor of a more generalizable method. Therefore, staking an unbiased approach via morphological profiling original staking and unbiased approach via morphological profiling control to the opportunity for discovery unconstrained by what we know not of the discovery unconstrained by what we know or of think we know, I also sholds the potential to be more filed as a single experiment can be mixed for many different biological processes of discoss of interest.

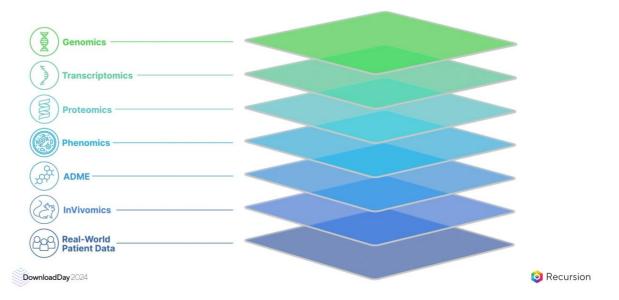
In morphological profiling, measured features include stain ag intensities, textural patterns, size, and shape of the labelec lellular structures, as well as correlations between stains across hannels, and adjacency relationships between cells and among

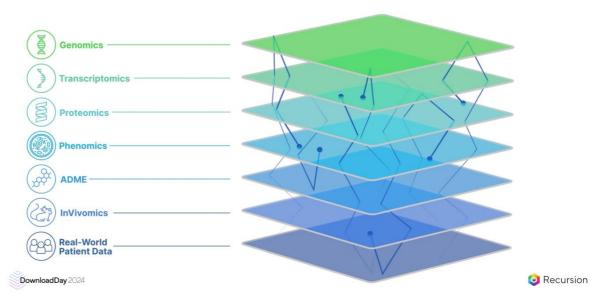
To truly industrialize drug discovery, point solutions must be integrated as modules across many diverse steps

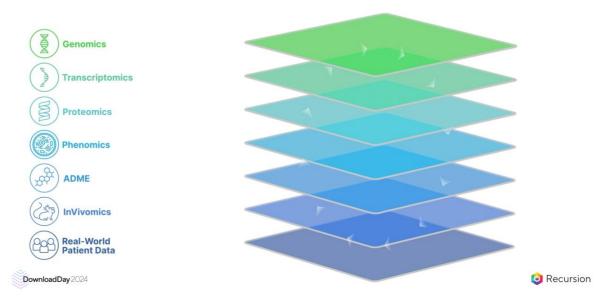






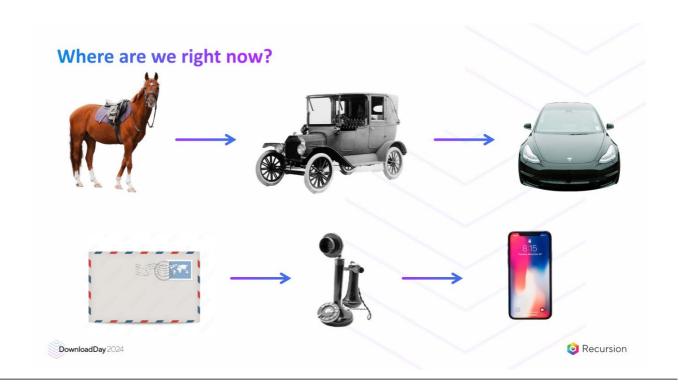


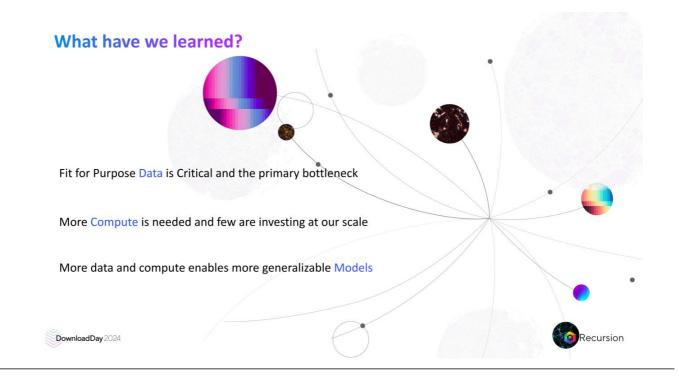






Recursion





Industrializing stages of our drug discovery efforts leads to massive efficiency improvements





Four ingredients needed to continue leading TechBio at the tipping point







Data

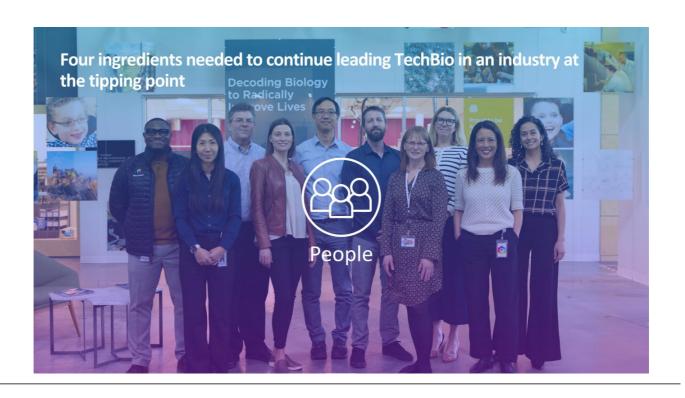


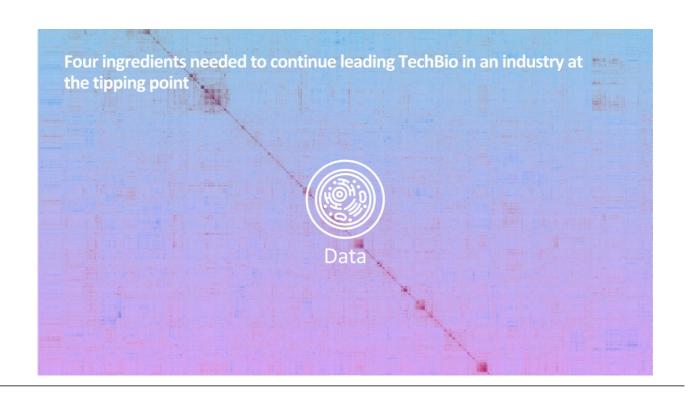




Capital









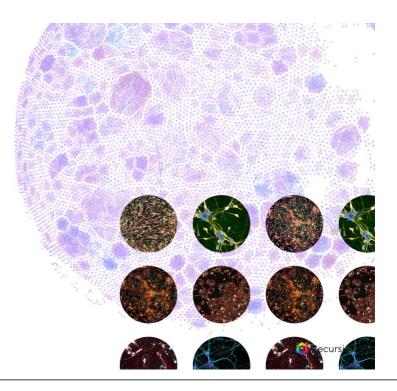


Our Purpose

We exist to run an experiment...

....An experiment to determine if there might be a better way to discover and develop drugs...

...We need this sort of ambition in BioTech if we hope to have a chance of transforming our ability to impact patients and drive down the cost of medicines.



What to Expect from Recursion in the Near Term

Pipeline

 7 clinical trial readouts expect over the next ~18 months with new programs embracing our tools to drive novel chemistry against novel targets advancing quickly

Partnership

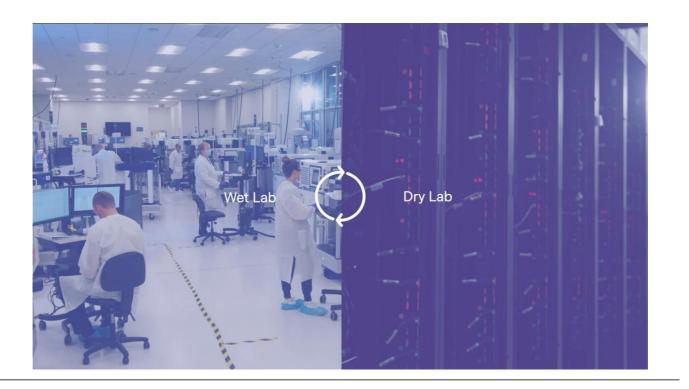
- Roche & Genentech: program optioned in oncology continues to progress with potential additional near-term program & very near-term map options
- Bayer: On track to complete 25 unique multi-modal data packages in Q3 2024 with first joint Project now advancing rapidly towards Lead Series nomination

Platform

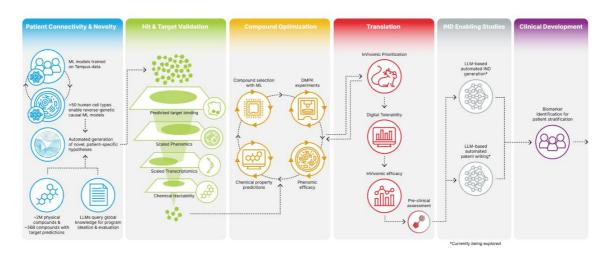
- · Internal programs now initiated by LLM with multiple hit nominations for LLM-generated programs with more on the way
- Moving towards large-scale multi-omics and generalizable foundation models with first genome-scale transcriptomics map and patient data
- Data and tools available to biopharma and commercial users: Bayer will be 1st beta-user of LOWE for drug discovery and development





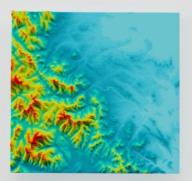


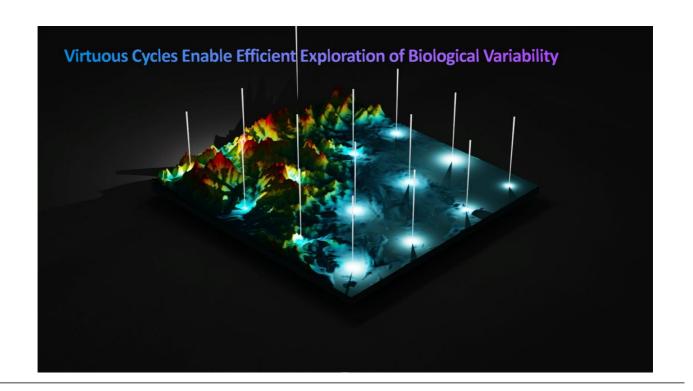
Virtuous Cycles Connect Systems for Efficient End-to-End Drug Discovery

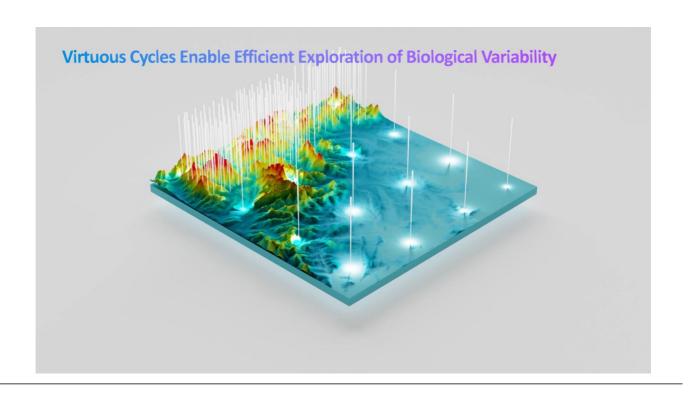


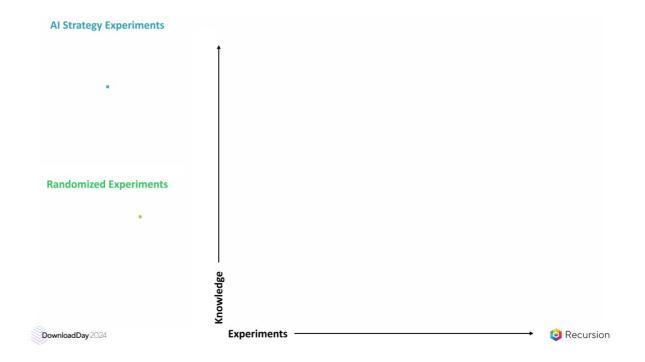


Virtuous Cycles Enable Efficient Exploration of Biological Variability

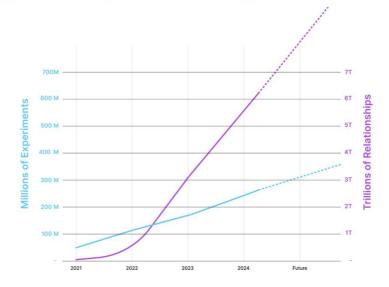








Virtuous Cycles Drive Superlinear Knowledge Creation



Download Day 2024

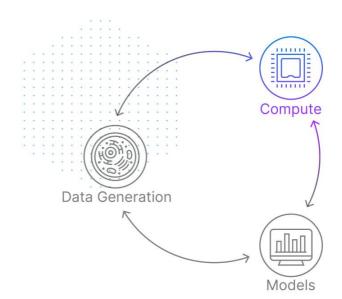
(2) Recursion

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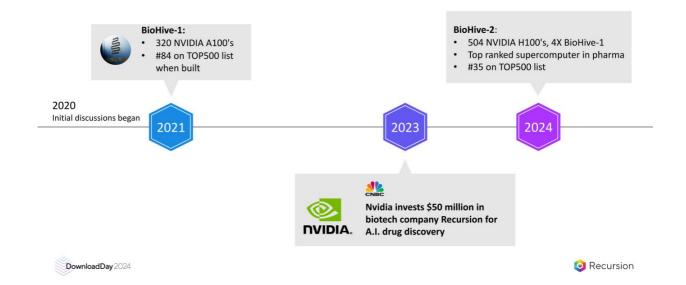








Ahead of the curve: our supercomputer journey

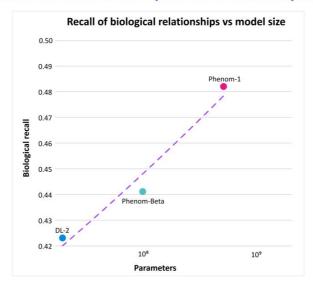








Larger datasets and Increased Computation Yield Superior Models



Download Day 2024

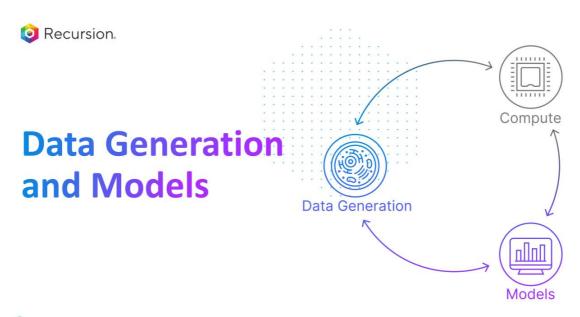
Recursion

35th fastest supercomputer in the world!









Standardizing and automating experiments to capture multiple layers of biology and chemistry

Genomics

Proteomics

Phenomics

ADME

InVivomics

Real-World
Patient Data

Download Day 2024

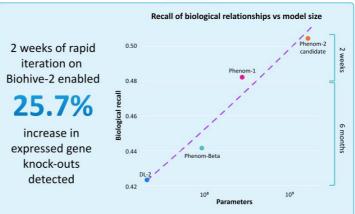
Recursion

Phenomics: Foundation models improve at detecting biology

DATA GENERATION

>250 million experiments
>50 human cell types
>1 trillion neurons generated
Brightfield to capture dynamics

MODELS

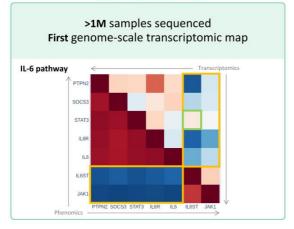




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Transcriptomics: Multimodal data scales validation and mapping

DATA GENERATION



MODELS

Replaced time-consuming, disease-specific validation assays with portfolio-wide multimodal model workflow

90%

Ability to predict compounds that failed later disease-relevant assays in internal tests

60%

Ability to predict compounds that passed later disease-relevant assays in internal tests



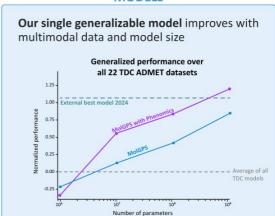


DATA GENERATION

Estimated **90x** throughput over manual approach >**750** compounds per week



MODELS



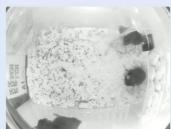


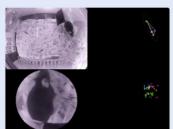


InVivomics accelerates decision-making in late discovery

DATA GENERATION

>1,000 digital mouse cages 150 digital rat cages in 2024 Social housing increases relevance





MODELS

- Machine learning enables scale by extracting signals from video and temperature sensors
- Applied across breadth of Recursion portfolio
- Designed to select the right molecule at the right dose before entering studies



(229)

Patient Data: Path to uncover novel disease drivers with Maps

DATA GENERATION

TEMPUS

>20 PB of real-world multi-modal oncology

#Helix

Hundreds of thousands of unique de-identified patient records across diverse therapeutic areas

MODELS

Combining
Recursion maps of
biology with
patient clinical
data unlocks
causal modeling to
find novel targets

Forward Genetics
Mutagenesis,
QTL mapping, etc.

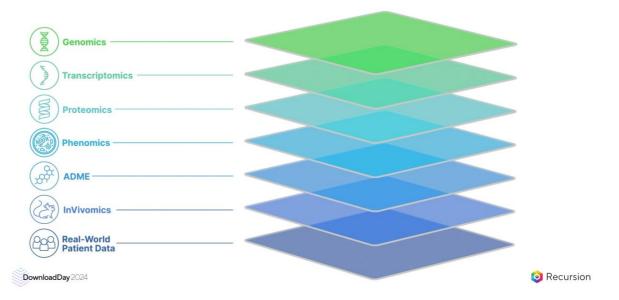
Known Phenotype
Phenotype resulting
from alteration/
perturbation

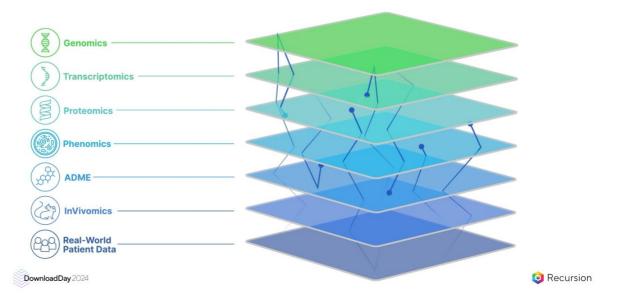
Known Gen
Phenotype resulting
Forward Genetics
Mutagenesis,
QTL mapping, etc.

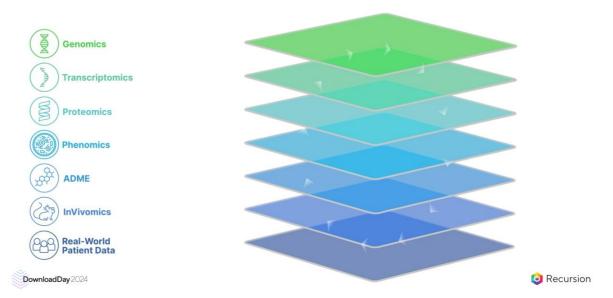
Known Gen
Phenotype resulting
Forward Genetics
Mutagenesis,
QTL mapping, etc.

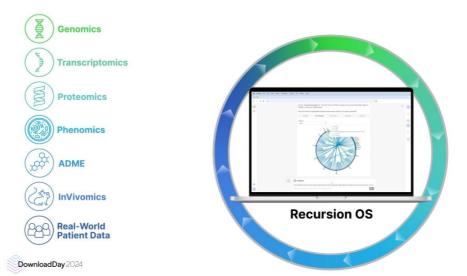
Known Gen
Phenotype resulting
Forward Genetics
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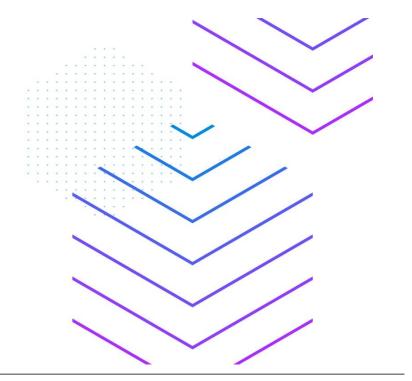




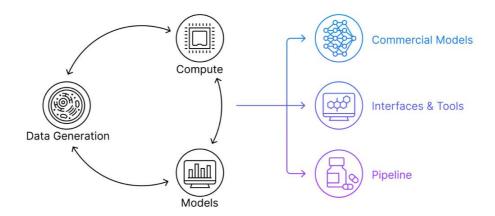
Recursion



Utility of the OS

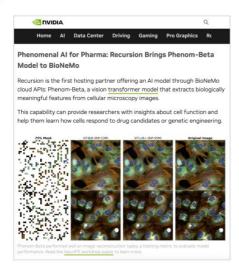


The Recursion OS: Utility across multiple potential product verticals

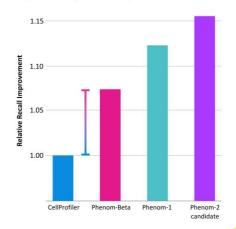




Commercial Models: Capitalizing on our data and foundation models



Phenom-Beta, available on NVIDIA BioNeMo, outperforms open-source "gold standard" CellProfiler





Interfaces and Tools: bringing together modules spanning the drug discovery process







Patient-specific hypotheses



Phenom-1



Chemical tractability



InVivomic prioritization



LLMs & literature



InVivomic efficacy



Chemical property predictions



Predicted target binding



Tempus data ML models



Phenomic efficacy



















The Future of TechBio Turning drug discovery into a search problem



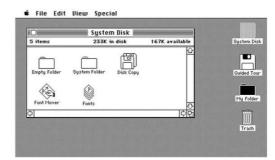




- 55

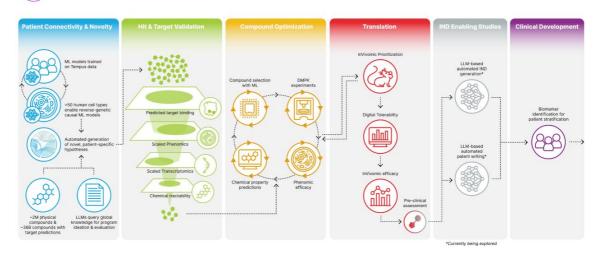
The Future of TechBio Turning drug discovery into a search problem







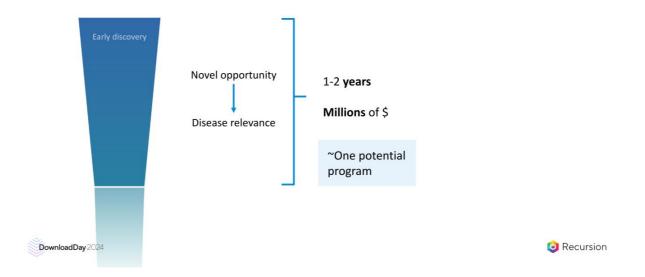
Pipeline: connecting systems into Industrialized Workflows



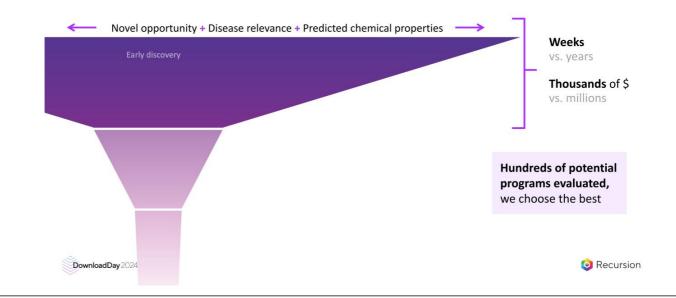




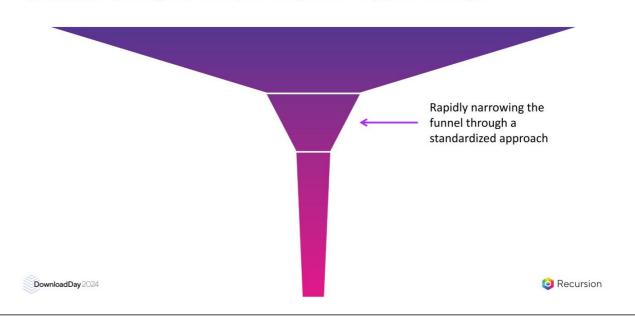
Traditional approach to initiating a new drug discovery program



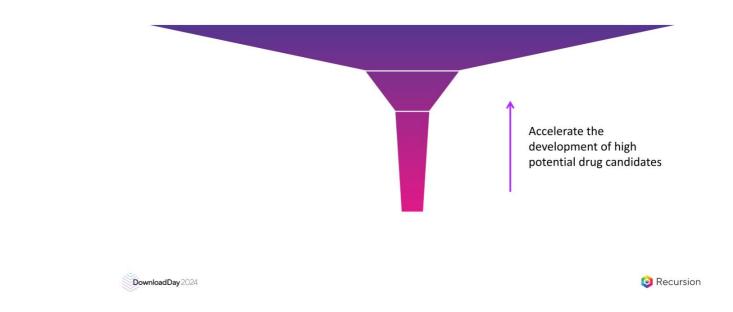
We are turning this into a search problem, evaluating new programs in bulk



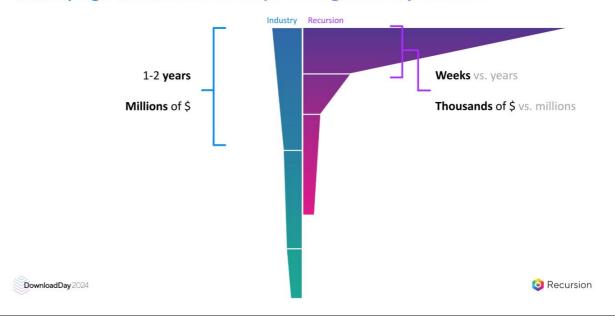
Recursion is designed to impact drug discovery productivity...



Recursion is designed to impact drug discovery productivity...



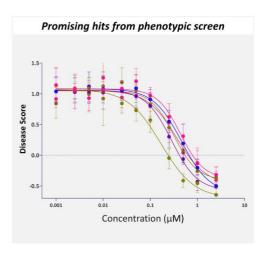
Reshaping the timelines and shape of drug discovery research





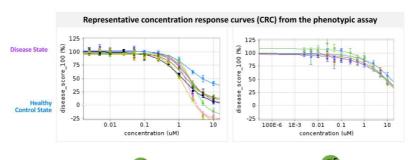
Power of Phenomics: Identify complex phenotypic rescue at scale

PBMC-derived fibrocyte assay Control State: Disease State: Undisclosed treatment Human-PBMCs are differentiated to fibrocytes Treatment with a control peptide gives desired impact on fibrocytes (control state)





~100x potency gains driven entirely on phenomics assay



Significant reduction of disease modifying activity

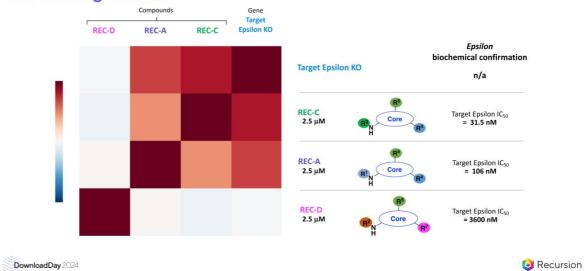




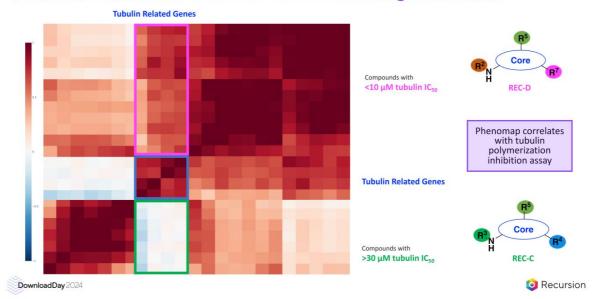




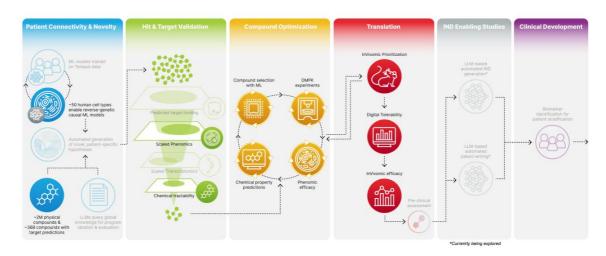
Phenomics identified mechanism of action as a novel approach for treating fibrosis



Power of Phenomics: Track and minimize off-target liabilities



Industrialized Drug Discovery: Optimizing novel chemical matter

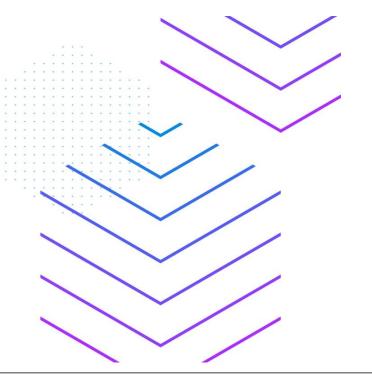




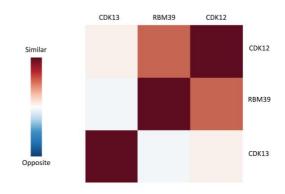


Case Study: RBM39

Accelerating to IND enabling studies through in silico novel target prediction



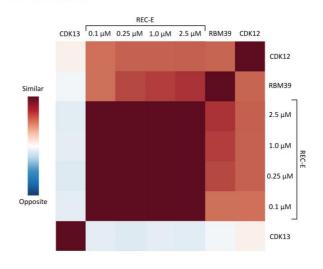
Inference search reveals novel CDK12 adjacent target RBM39 and selective small molecule hits





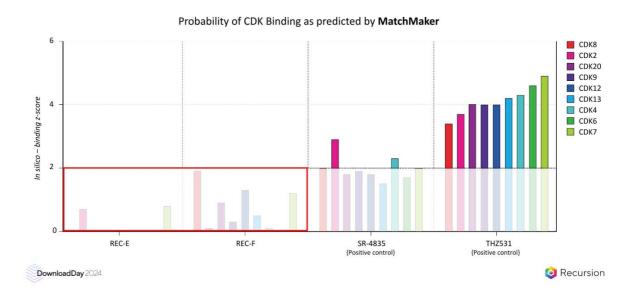


Inference search reveals novel CDK12 adjacent target RBM39 and selective small molecule hits

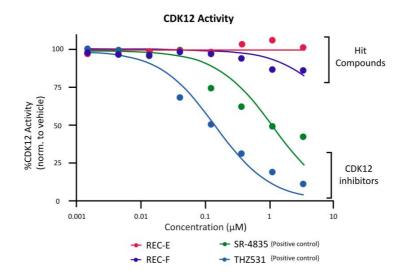




In silico MatchMaker predicts hit compounds are NOT CDK inhibitors



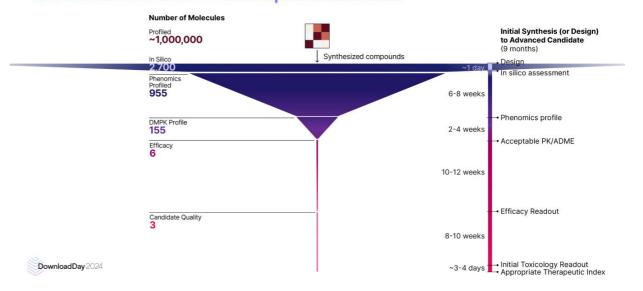
Physical data confirms digital hypothesis



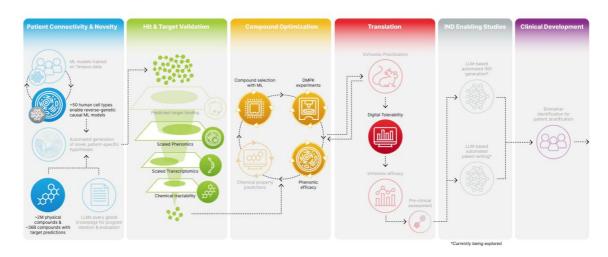
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Recursion

Predictions and minimal standard experiments enabled rapid and efficient identification of development candidate



Rapid in silico novel target identification





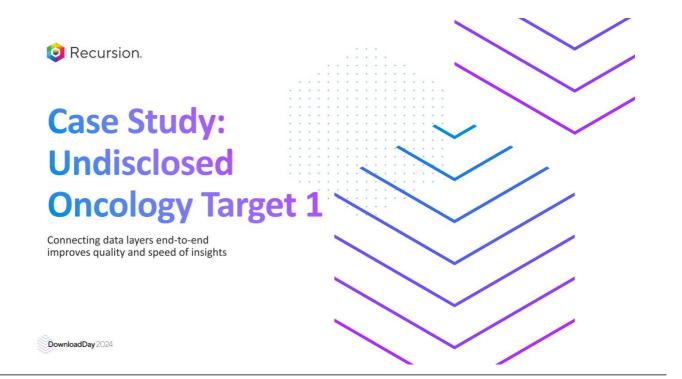
Time from target ID to IND enabling study



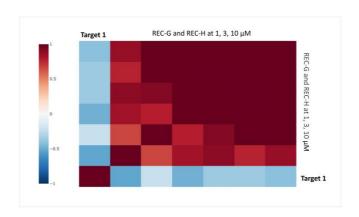
Industry

• 42

months



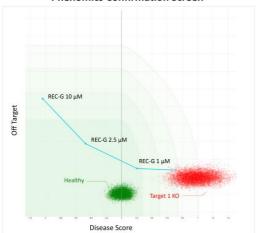
Identifying novel Target 1 and opposing molecules through automated, in silico analysis



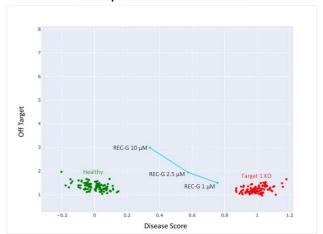


Physical data confirms digital hypothesis

Phenomics Confirmation Screen

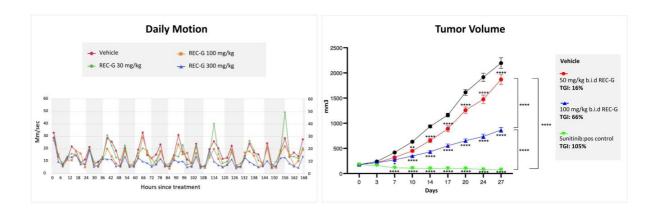


Transcriptomics Confirmation Screen



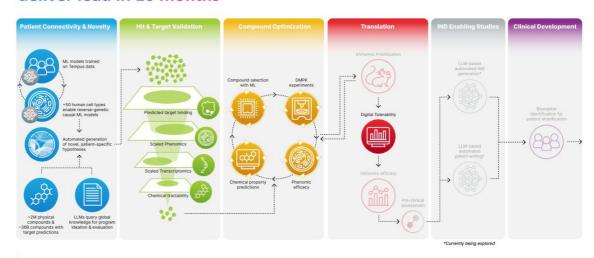


InVivomics enables identification of tolerable dose for rapid positive proof of concept readouts for unoptimized molecules





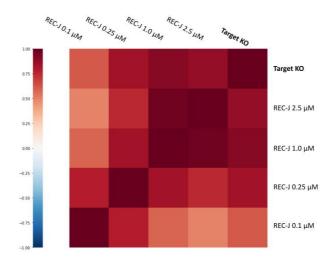
End-to-end automation drives significant efficiency gains to deliver lead in 10 months





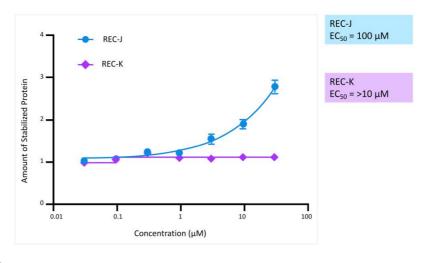


In silico analysis reveals compound highly phenosimilar to Target KO



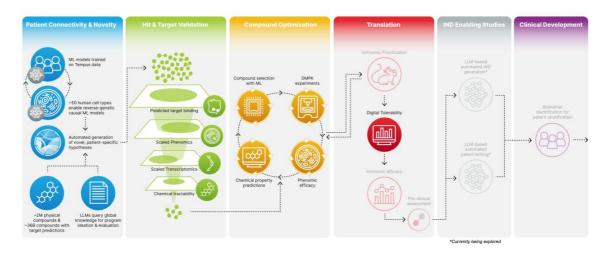


Compound with high predicted phenosimilarity bind to Target 2

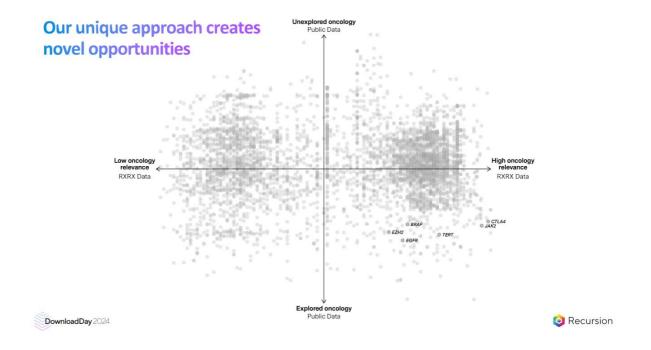


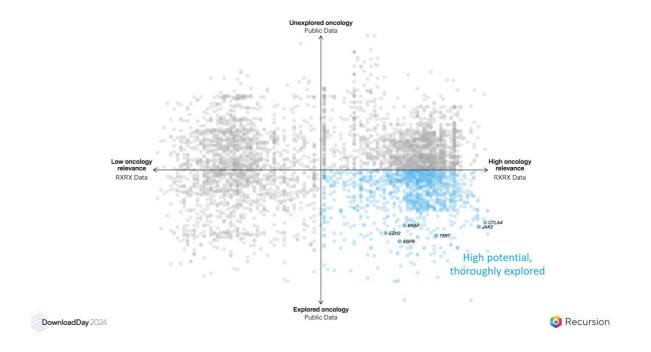


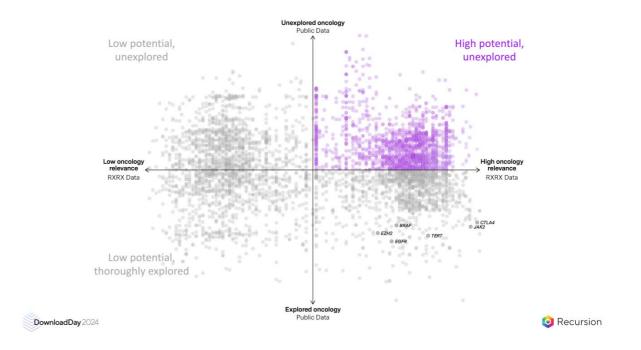
Overcoming the hurdles of drug discovery: undruggable targets

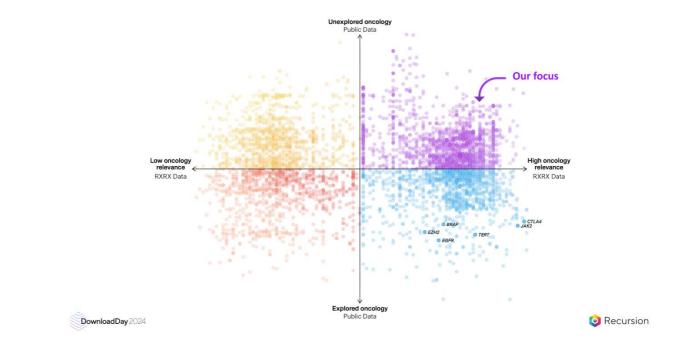






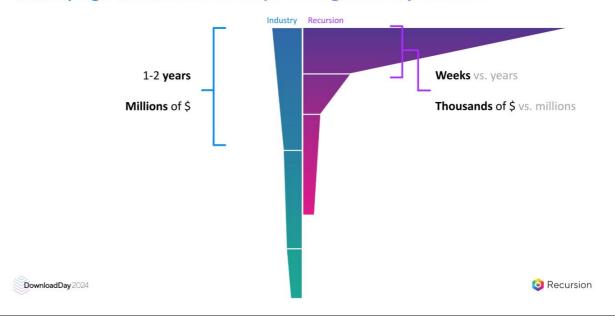






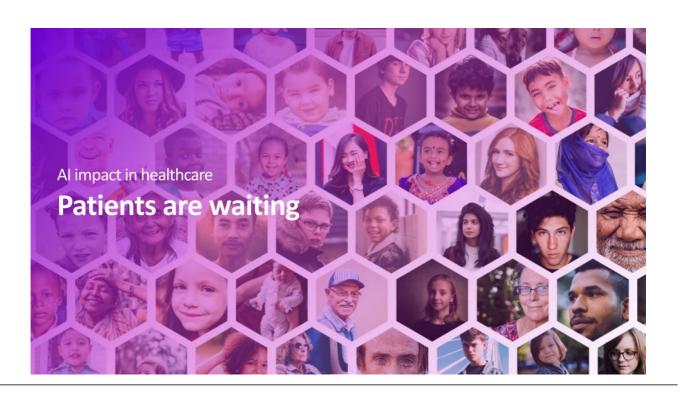


Reshaping the timelines and shape of drug discovery research







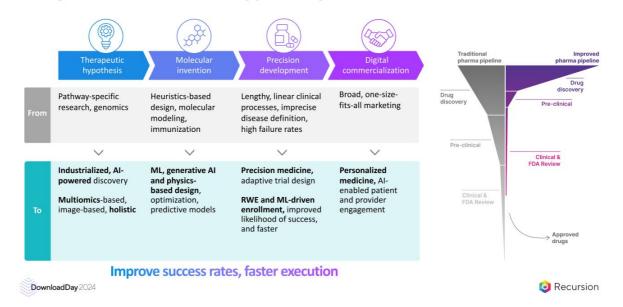


Why: Impact of AI & healthcare for patients





Why: Current state and the opportunity ahead



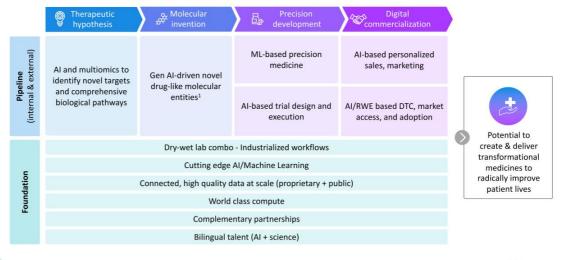
What: Industry's current state



What: The pharma of tomorrow

DownloadDay 2024 1. with optimized PK/PD profiles

Breadth and depth in AI and pharma excellence

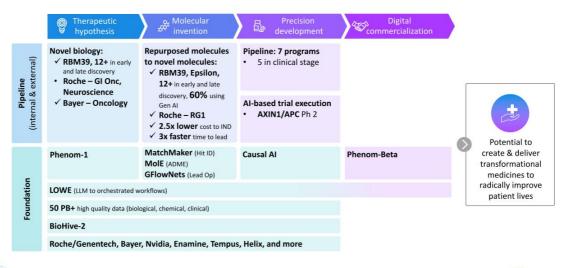




RXRX Gen 1.0: The Rise of a TechBio



RXRX Gen 1.0: Emerging proof points

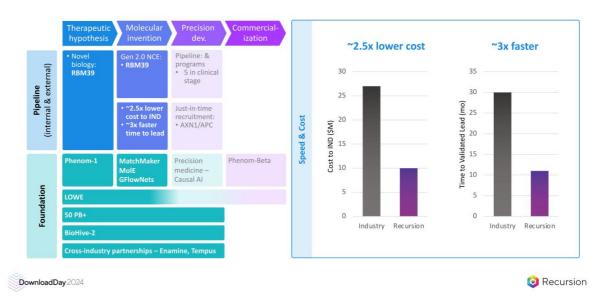




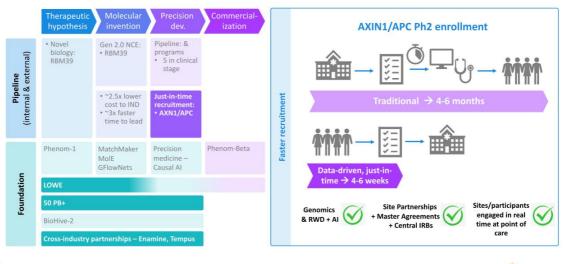
Use case 1: RBM39 – new biology and chemistry



Use case 2: Faster execution, lower cost for preclinical programs



Use case 3: Advancing clinical execution using Al



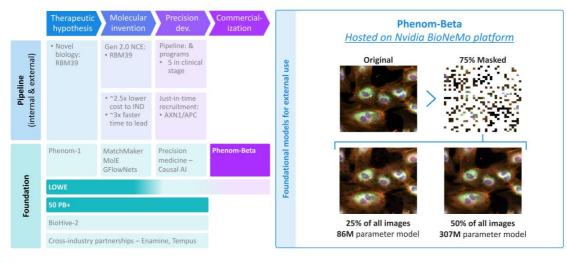


Use case 4: Suite of Al-first models



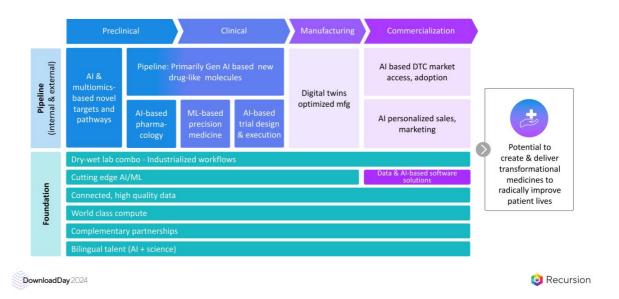


Use case 5: Foundational models for external use





What's next?



Path forward objectives – next 12 months



Enhance Al-Driven Chemistry

Innovate with AI across Clinical Development

Continue Investment in Scalable Infrastructure – wet and dry lab

Deliver on Strategic Partnerships

Create additional SaaS opportunities to advance the creation of medicines







We harness value from the Recursion OS with a multi-pronged capitalefficient business strategy



We harness value from the Recursion OS with a multi-pronged capitalefficient business strategy



Roche Genentech Partnership

Neuroscience (and single oncology indication) Announced Dec 2021





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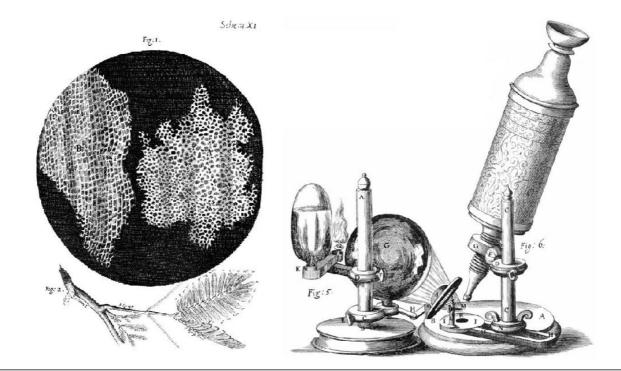
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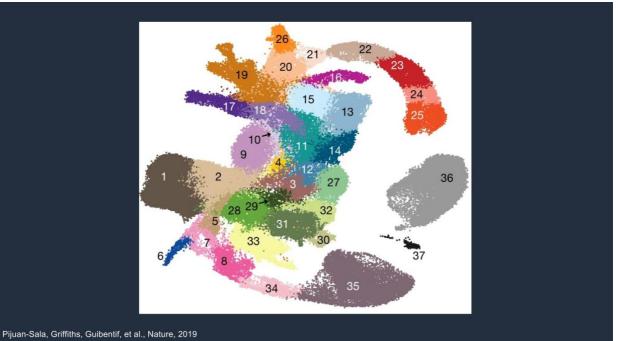
Computational Sciences in Drug Development

John Marioni, PhD FMedSci Senior Vice President & Head of Computational Sciences, gRED

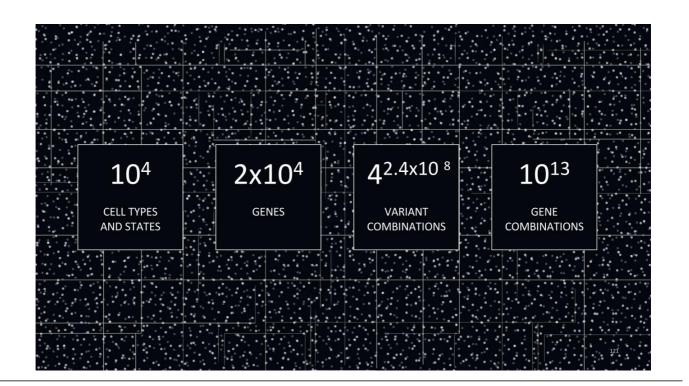
Genentech







We can generate huge amounts of data—from both healthy and perturbed conditions... but how will we make sense of these data and make predictions about perturbations we have not seen?

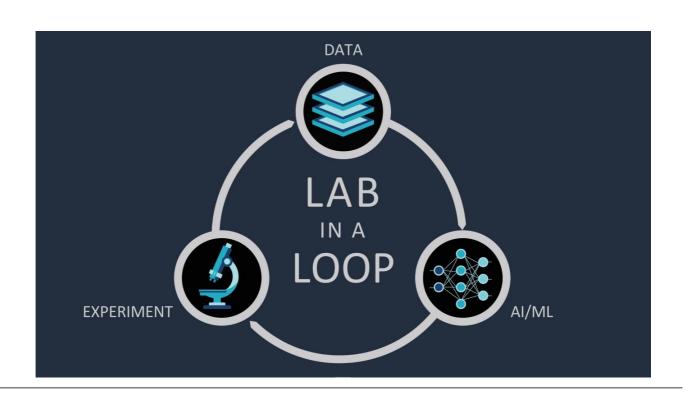


This is one example where computational models, especially **foundation models** and **generative AI** can **transform** how we discover and develop **medicines**

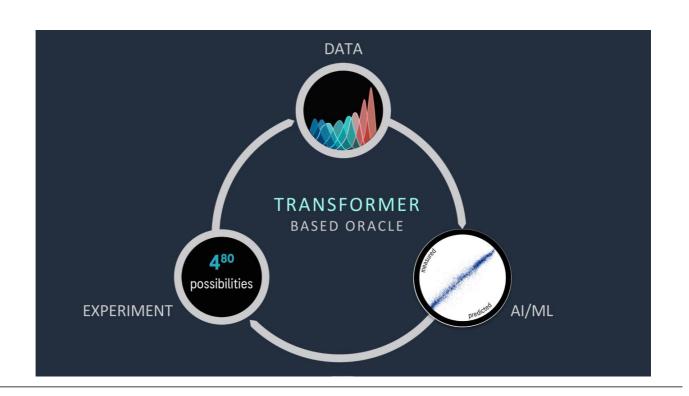
This is one example where computational models, especially **foundation models** and **generative AI** can **transform** how we discover and develop **medicines**

gRED Computational Sciences (gCS) seeks to make this vision a reality

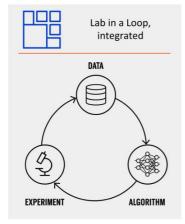
HOW?



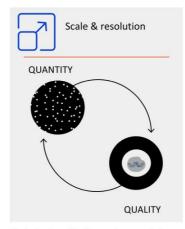
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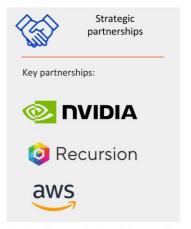
Our AI strategy for R&D



Full stack, across all aspects of R&D; up to "self drive"



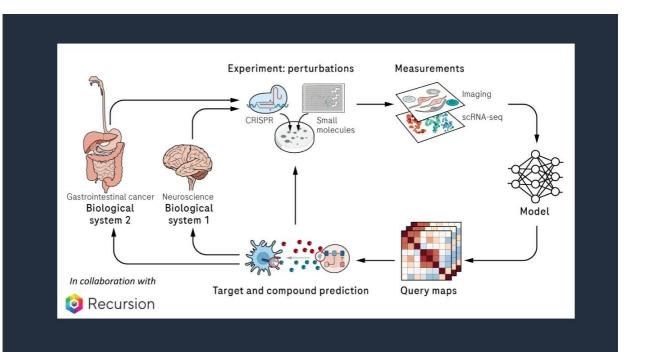
Maximize benefit of large size: proprietary legacy data and data generation capacity

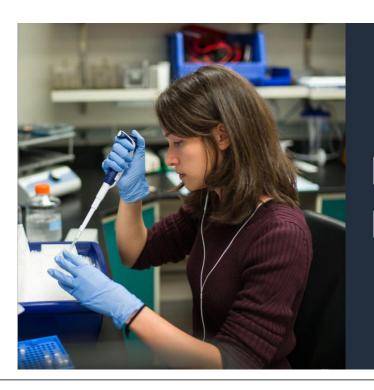


Partnership around unique data generation, AI/ML model development and hardware



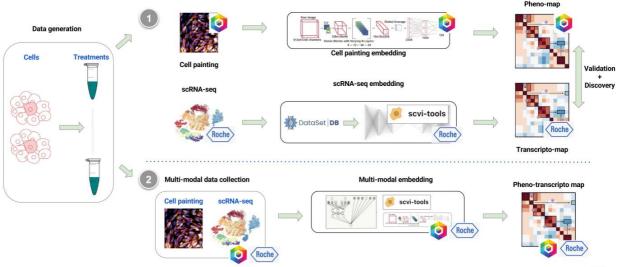
RIGHT TARGET OR CHEMICAL MATTER FOR THE DISEASE





RIGHT MOLECULE

Multi-Modal Model Development



132

MODELS ARE ONLY AS GOOD AS THE DATA

Challenges

Data management, metadata and access
Integrating expertise from multiple disciplines
Access to scalable scientific computing for fitting/fine-tuning models

Democratizing access and ensuring use of data and models

Challenges... But already driving to solutions

Data management, metadata and access: modernizing our data stack and exploiting the cloud and associated tools

Integrating expertise from multiple disciplines: internal organizational structure and external partners

Access to scalable scientific computing for fitting/fine-tuning models: partnering with outstanding companies in the industry

Democratizing access and ensuring use of data and models: Autonomous agents as the next-generation scientific assistant



Bayer Partnership







Undruggable oncology targets

Collaboration announced Sept 2020 Amended Nov 2023

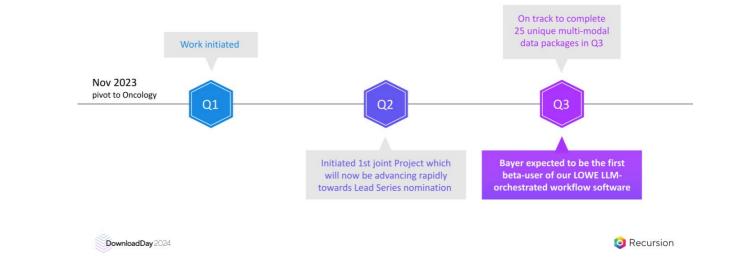
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Scientific Collaborations: Undruggable Oncology Targets





Scientific Collaborations: Undruggable Oncology Targets





Scientific Collaborations: Platform, Tech, and Data



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Scientific Collaborations: Real world (de-identified) data



- Multi-site network protocol continuously aggregating in various therapeutic areas
- Geographically and demographically diverse population consented for re-contact
- Whole exome sequencing paired with rich, longitudinal clinical data for all consenting patients
- Access to hundreds of thousands of unique records each year



We harness value from the Recursion OS with a multi-pronged capital-efficient business strategy

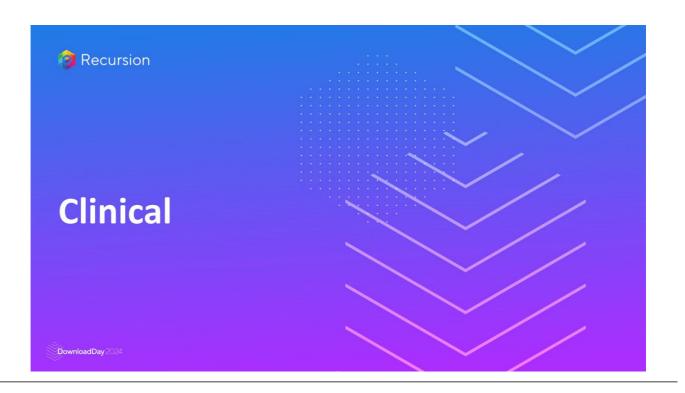














Our pipeline reflects the scale and breadth of our approach

e & Other	Program	Indication	Target	Patient Population	Preclinical	Phase 1	Phase 2	Phase 3	Anticipated Near-Term Milestones
	REC-994	Cerebral Cavernous Malformation	Superoxide	~ 360K ¹	SYCAMORE				Topline readout in September 2024
	REC-2282	Neurofibromatosis Type 2	HDAC	~ 33K²	POPLAR				Preliminary data readout in Q4 2024
	REC-4881	Familial Adenomatous Polyposis	MEK	~ 50K³	TUPELO				Preliminary data readout in H1 2025
Rare	REC-3964	Clostridioides difficile Infection	TcdB	~730K	ALDER				Ph2 initiation in Q4 2024
	Epsilon	Fibrotic Diseases	Undisclosed	~ 50K ^{4,5,6}					IND submission in early 2025
ogy	REC-4881	Advanced AXIN1/APC-mutant Cancers	MEK	~ 104K ⁷	LILAC				Preliminary data readout in H1 2025
Oncology	RBM39	Advanced HR-Proficient Cancers	RBM39	~ 220K ⁸					IND submission in Q3 2024, Ph 1/2 initiation in Q4 2024

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 EU5 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.

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

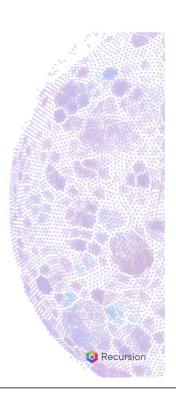
Target / MOA Superoxide Scavenger
Molecule Type Small Molecule

Lead Indication(s) Cerebral Cavernous Malformations

Status Phase 2

Designation(s) US & EU Orphan Drug

Source of Insight Recursion OS



PREVALENCE & STANDARD OF CARE

~360,000

Symptomatic US + EU5. >1 million patients worldwide live with these lesions today

Superoxide scavenger, small molecule

>5x larger US patient population than other rare diseases like Cystic Fibrosis (>31k patients)

No approved therapy

- · Most patients receive no treatment or only symptomatic therapy
- Surgical resection or stereotactic radiosurgery not always feasible because of location and is not curative

CAUSE

Targeting sporadic and familial symptomatic CCM patients with CCM1, CCM2, and CCM3 mutations
 US & EU Orphan Druz Designation

LOF mutations in genes CCM1, CCM2 & CCM3, key for maintaining the structural integrity of the vasculature due to unknown mechanisms

PATHOPHYSIOLOGY & REASON TO BELIEVE

Vascular malformations of the CNS leading to focal neurological deficits, hemorrhage and other symptoms



Efficacy signal in Recursion OS as well as functional validation via scavenging of massive superoxide accumulation in cellular models; reduction in lesion number with chronic administration in mice

US & EU Orphan Drug Designation











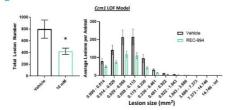
KEY ELEMENTS

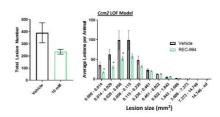
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Recursion

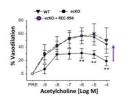
Preclinical Studies: REC-994 reduces lesion burden and ameliorates vascular defects in genetic mouse models of CCM

1 Reduces lesion number & size in Ccm1 and Ccm2 LOF mouse models

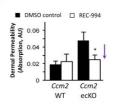




2 Rescues acetylcholine-induced vasodilation defect



3 Rescues dermal permeability defect in CCM2 mice



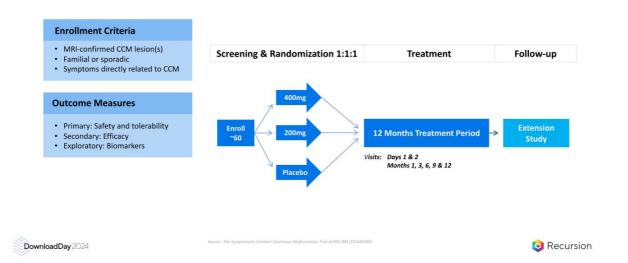
- REC-994 stabilizes the integrity of vasculature against challenges to permeability
 - Altered vascular permeability is a clinically relevant feature of CCM lesions

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Topline Data Expected September 2024





Outcome Measures

- Primary: Safety and Tolerability
 - Adverse events & symptoms
- · Secondary & Exploratory:
 - Efficacy
 - Clinician-measured outcomes (CGI, PGI)
 - MRI Imaging
 - Impact of acute stroke (mRS, NIHSS)
 - Patient and Investigator reported outcomes (SMSS, PROMIS-29, CCM-HI, symptom questionnaires)

Trial Update

- · Enrollment is complete
- Vast majority of participants who completed 12 months of treatment continue to enter long-term extension
- Analysis
 - Identification of trends across multiple endpoints
 - o Changes in vascular permeability
 - o E.g., hemosiderin deposition
 - o Change in lesion burden
 - o Subgroup

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e: https://clinicaltrials.gov/study/NCT0508556



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



PREVALENCE & STANDARD OF CARE

~33,000 Treatable US + EU

No approved therapy

- Surgery/RT is standard of care (when feasible)
- Location may make complete resection untenable, leading to hearing loss, facial paralysis, poor balance and visual difficulty
- Stasis or shrinkage of tumor could improve prognosis

LOF mutations in NF2 tumor suppressor gene, leading to deficiencies in the tumor suppressor protein merlin

PATHOPHYSIOLOGY & REASON TO BELIEVE

Inherited rare CNS tumor syndrome leading to loss of hearing and mobility, other focal neurologic deficits



Efficacy signal in Recursion OS, cellular, and animal models; suppression of aberrant ERK, AKT, and S6 pathway activation in a Phase 1 PD Study in NF2 patient tumors





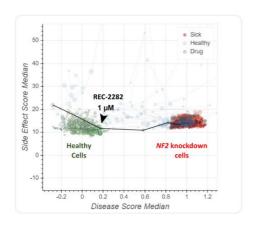


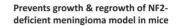
KEY ELEMENTS

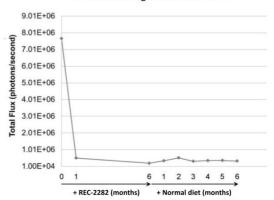
- Targeting familial & sporadic NF2 meningioma patients
 Preliminary readout expected Q4 2024
- HDAC inhibitor, small molecule
- Oral dosing

- Fast-Track and US & EU Orphan Drug Designation









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C, human umbilical vein endothelial cells; NF2, neurofibromatosis type 2; siRNA, small interfering R



Key Enrollment Criteria

- MRI-confirmed progressive meningioma
- Sporadic meningioma with confirmed NF2 mutation
- Familial NF2 meningioma
- Have documented progression with past 24 months

Outcome Measures

- Primary: PFS6 defined as proportion of patients who are alive or progression free after
- Secondary: ORR, Safety, PK/PD

Phase 2/3 trial initiated in Q2 2022

Phase 2 portion

40 mg TIW ~6 Sporadic ~6 Familial

60 mg TIW ~6 Sporadic ~6 Familial 6-month PFS (Futility Analysis)

- . 8/2
- Go/No-go to Ph3Safety/Tolerability
- PK • PFS

Preliminary Phase 2 readout (safety & preliminary efficacy) expected in Q4 2024

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rce : Efficacy and Safety of REC-2282 in Patients With Progressive Neurofibromatosis Type 2 (NF2) Mutated Meningiomas (POPLAR-I



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

Target / MOA MEK Inhibitor

Molecule Type Small Molecule

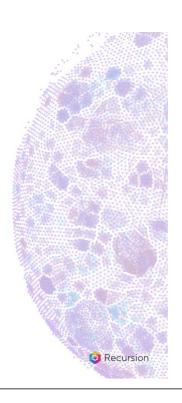
Lead Indication(s) Familial Adenomatous Polyposis

Status Phase 2

Designation(s) Fast Track; US and EU Orphan Drug

Source of Insight Recursion OS





PREVALENCE & STANDARD OF CARE

~50,000 Diagnosed US + EU

No 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)

Inactivating mutations in the tumor suppressor

PATHOPHYSIOLOGY & REASON TO BELIEVE

Designation

Polyps throughout the GI tract with extremely high risk of malignant transformation



Efficacy signal in the Recursion OS showed specific MEK 1/2 inhibitors had an effect in context of APC LOF. Subsequent APC^{min} mouse model showed potent reduction in polyps and dysplastic adenomas

 Preliminary readout expected H1 2025 • Fast-Track and US & EU Orphan Drug



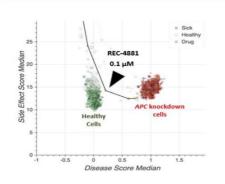
KEY ELEMENTS

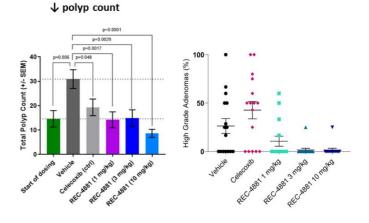
Targeting classical FAP patients (with APC mutation)

- MEK inhibitor, small molecule
- Oral dosing



REC-4881 rescued phenotypic defects of cells with APC knockdown

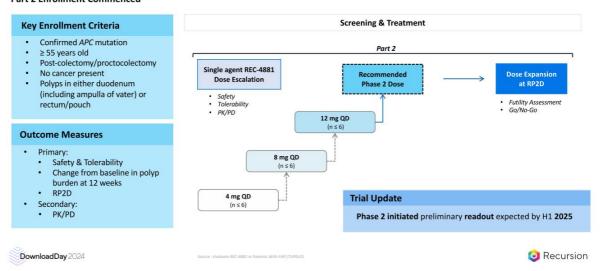




@ Recursion



Part 2 Enrollment Commenced



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

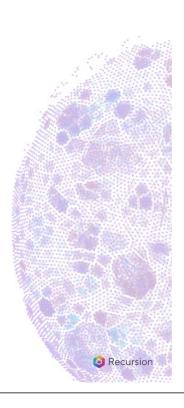
Target / MOA MEK Inhibitor

Molecule Type Small Molecule

Lead Indication(s) Solid Tumors with AXIN1 or APC Mutations

Status Phase 2
Source of Insight Recursion O





~104,000 Treatable US + EU5

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*

CAUSE

LOF mutations in AXIN1 or APC tumor suppressor genes

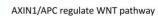
PATHOPHYSIOLOGY & REASON TO BELIEVE

Alterations in the WNT pathway are found in a wide variety of tumors and confer poor prognosis and resistance to standard of care

Efficacy signal in the Recursion OS and favorable results in PDX models harboring AXIN1 or APC mutations vs wild-type leading to a significant PFS benefit only in mutant models







• Targeting AXIN1 or APC mutant cancers

MEK inhibitor, small molecule

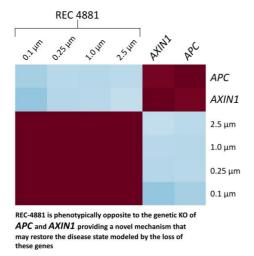
· Enrollment ongoing

Phase 2 initial readout expected H1 2025

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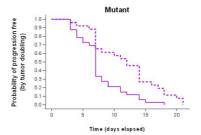
KEY ELEMENTS





Significantly greater antitumor activity in mutant models led to significant PFS benefit

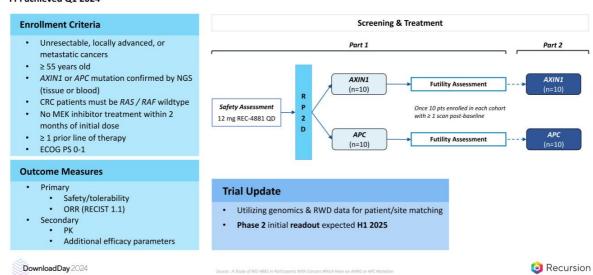








FPI achieved Q1 2024



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

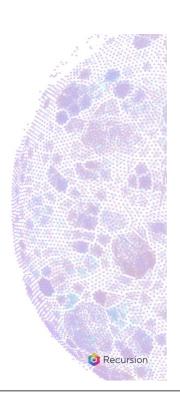
Target / MOA Selective C. difficile Toxin Inhibitor

Molecule Type Small Molecule

Lead Indication(s) Prevention of CDI

Status Phase 2
Source of Insight Recursion OS





PREVALENCE & STANDARD OF CARE

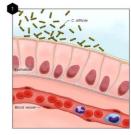
~730,000

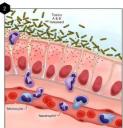
Diagnosed US + EU5 patients

- Severity of infection varies and can range from mild to severe, requiring colectomy
 - >29,000 patients die in the US each year from CDI
- · Cost burden of up to \$4.8bn annually

TREATMENT PARADIGM

- Standard of care for
 1st occurrence: Antibiotics alone
- Recurrence (20-30% of patients) treated with antibiotics ± adjunct therapy (bezlotoxumab IV or fecal transplant)
- REC3964 inhibits the C. difficile toxins and is a non-antibiotic therapy



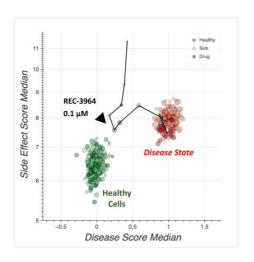


PATHOPHYSIOLOGY & REASON TO BELIEVE

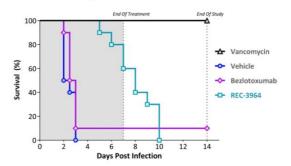
- Selective Inhibitor of C. difficile Toxins
- Recursion's 1st Small Molecule NCE to Reach the Clinic
- Binds and blocks catalytic activity of the toxin's innate glucosyltransferase, but not the host's



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



REC-3964 significantly extended survival over SOC



- 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)







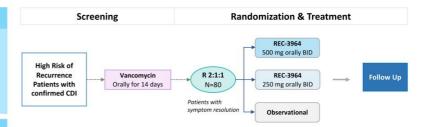
ALDER Clinical Trial: POC Phase 2 REC-3964 in Patients at High Risk of *C. Diff* Recurrence

Enrollment Criteria

- Patients at high risk of recurrence
- ≥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
 - Additional efficacy measures
 - Safety / tolerability
 - PK



Trial Updates

- Phase 1 and DDI studies completed
- Phase 2 initiation expected in Q4 2024, preliminary readout expected by end of 2025



Novel Insights into **RBM39**Degradation for the Treatment of Select HR-Proficient Solid Tumors

Target / MOA RBM39 Molecular Glue Degrader

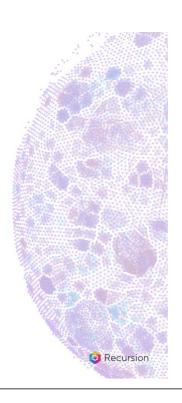
Molecule Type Small Molecule

Lead Indication(s) TBD

Status IND submission in Q3 2024, Phase 1/2 initiation in Q4 2024

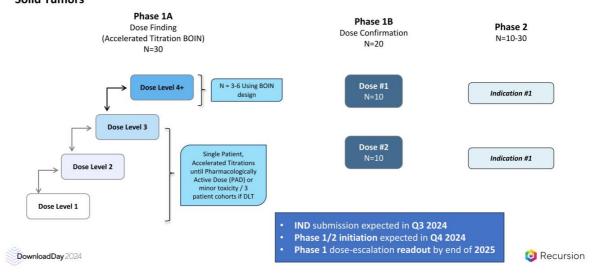
Source of Insight Recursion OS



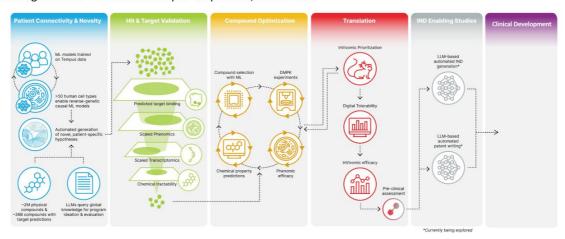


Anticipated RBM39 Trial Design

Planned Phase 1/2 study of RBM39 degrader in Biomarker Selected Relapsed Refractory HR-Proficient Solid Tumors



Machine Learning:
to truly industrialize drug discovery, data and AI solutions must be integrated as modules across many steps
Exciting scientific collaborations span biopharma, tech & data

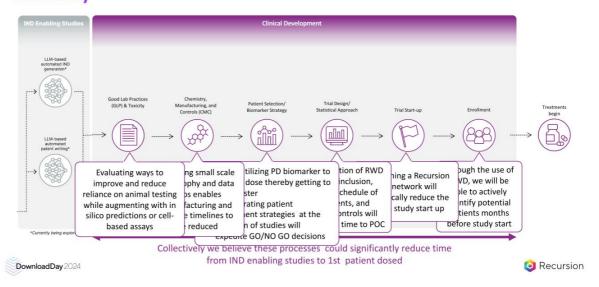


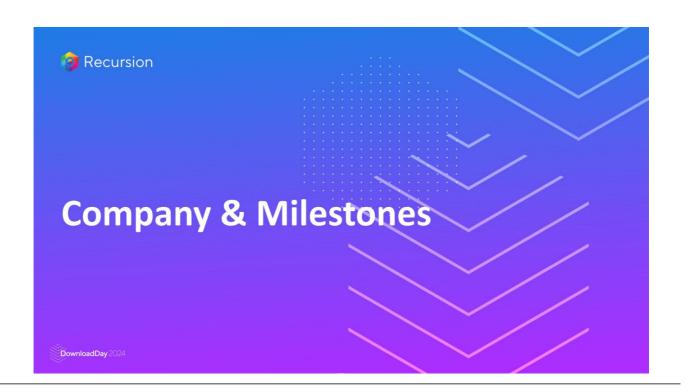


Industrializing the clinical process, through data and operational efficiency



Industrializing the clinical process, through data and operational efficiency





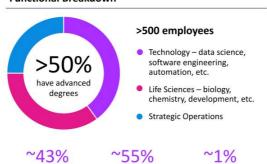
Our Culture and People are Key to Driving Value





Our People

Functional Breakdown



~43% ~55% Female Male Non-Binary

Data shown reflective of Q1 2024, gender statistics include participating individuals

Parity Pledge Signer gender parity and people of color parity

Locations



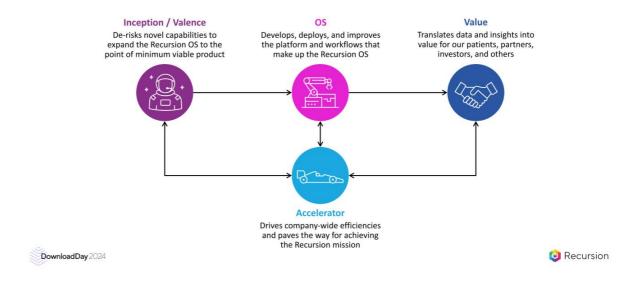
Headquarters in **Salt Lake City, Utah** with additional locations in:

- San Francisco, California
- Toronto, Ontario
- Montréal, Québec
- London, England





Our Operating Model – Organizing Ourselves in line with Our Drug Discovery Process



Milestones: Pipeline - 7 Clinical Trial Readouts Expected in ~18 Months

Pipeline

- CCM: Ph2 readout expected in September 2024
- NF2: Ph2 safety & preliminary efficacy expected in Q4 2024
- FAP: Ph2 safety & preliminary efficacy expected in H1 2025
- AXIN1 or APC Mutant Cancers: Ph2 FPI achieved in Q1 2024 with safety & preliminary efficacy expected in H1 2025
- C. difficile Infection: Ph2 initiation expected in Q4 2024 with preliminary readout expected by end of 2025
- Target RBM39 / HR-Proficient Cancers: IND submission expected in Q3 2024 and Ph1/2 initiation expected in Q4 2024 with Ph1 dose-escalation readout by end of 2025
- Target Epsilon (novel target in fibrotic diseases): IND submission expected in early 2025 with Ph1 healthy volunteer readout by end of 2025
- Dozens of internal & partner programs in early stages with first LLM & causal model driven programs entering pipeline













Milestones: Partnerships & Platform

Partnerships

- Roche & Genentech: validation program option exercised for 1st validated hit series in oncology, potential program & map options on the near or very near-term
- Bayer: delivered multiple oncology data packages, on track to complete 25 unique data packages in Q3 2024, initiated and advancing 1st joint project towards lead series nomination, potential near-term program options, agreed to be 1st beta-user of LOWE for drug discovery and development
- Tempus & Helix: building large-scale causal AI models to generate target hypotheses across cancer and other disease areas, exploring novel NSCLC targets
- Potential for additional partnership(s) in large, intractable areas of biology

<u>Platform</u>

- Built our 1st genome-scale transcriptomics KO map, moving towards multiomics foundation models
- Active learning and exploration of proteomics, organoids, spheroids, & automated synthesis
- Potential to make some data and tools available to biopharma and commercial users
- · OS moving towards autonomous discovery

Strong Financial Position
~\$296M in cash Q1 2024
Cash refers to cash and cash equivalents at the end of Q1 2024







Our Hopes for Today

Let you get a feel for Recursion and hear from expert partners from outside Recursion about the current and potential future impact of our work

Help define what we view as a tipping point moment as BioTech transitions to TechBio and understand why Recursion

- and compute

is uniquely positioned to take advantage of this Share details and updates on our: • Pipeline – with 7 clinical trial readouts expected in the next ~18 months • Partnerships - with potential near term options on both maps and programs • Platform - with industry-leading data generation DownloadDay 2024