Redwood AI

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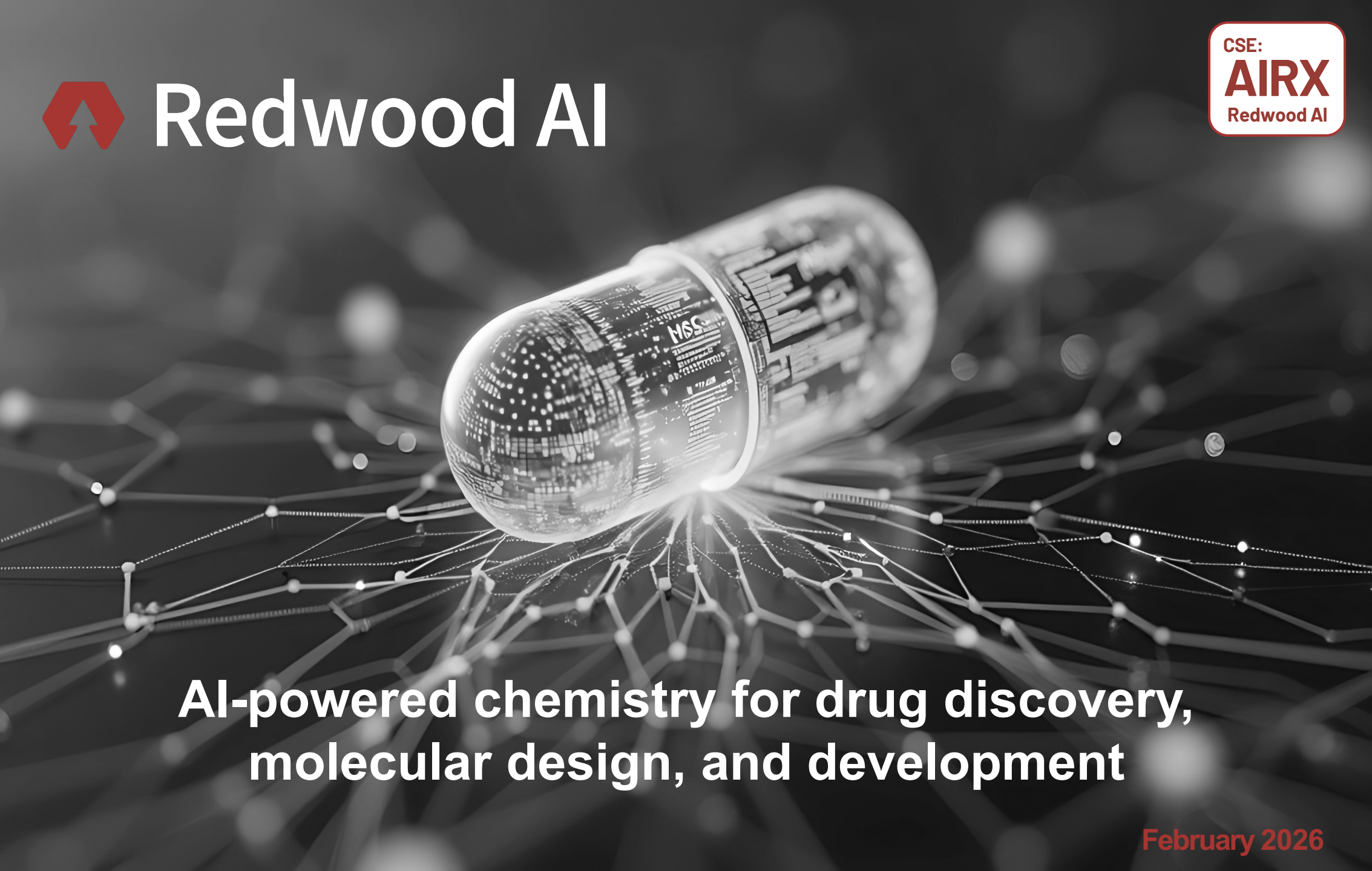
Redwood AI



AI-powered chemistry for drug discovery, molecular design, and development

February 2026

Disclaimer

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Challenges in Drug Development

Drug discovery, design, and development remain time-intensive, costly, and complex.

- Early-stage drug discovery and molecular design rely on iterative medicinal chemistry processes, limiting efficient exploration of chemical space and constraining downstream candidate advancement.[1]

- Chemical synthesis and process development remain highly manual and resource-intensive, contributing to long development timelines and high costs across pharmaceutical research and manufacturing.[2]

- Drug candidates must simultaneously satisfy multiple criteria including efficacy, safety, pharmacokinetics, manufacturability, and cost, increasing development complexity and reinforcing the need for integrated optimization.[1]

Source 1: https://www.nature.com/articles/s41587-020-0418-2
Source 2: https://pharmaceuticalmanufacturer.media/pharmaceutical-industry-insights/latest-pharmaceutical-manufacturing-industry-insights/pharma-outsourcing-trends-2025-partnership-precision-and-res/

Shift Toward AI-Driven Drug Discovery

AI-powered chemistry platforms are reshaping early discovery, molecular design, and development processes.

- AI-driven tools enable broader exploration of chemical space, increasing the number of drug candidates screened and advancing early-stage discovery.[1]
- Advances in AI-enabled predictive modeling and optimization of synthesis pathways, improving speed, accuracy, and development efficiency.[2]
- Integrated AI chemistry platforms are increasingly adopted to support discovery, synthesis planning, and development at scale.[3]

These trends signal a structural shift toward AI integrated drug discovery and molecular design, laying the foundation for AI-enabled candidate generation.

Source 1: https://www.precedenceresearch.com/artificial-intelligence-in-drug-discovery-market
Source 2: https://www.contractpharma.com/exclusives/ai-in-pharma-manufacturing-trends-applications-shortening-timelines/
Source 3: https://pharmaceuticalmanufacturer.media/pharmaceutical-industry-insights/latest-pharmaceutical-manufacturing-industry-insights/pharma-outsourcing-trends-2025-partnership-precision-and-res/

Redwood AI Overview

Proprietary AI-powered chemistry platform delivering synthesis intelligence across drug discovery and development.

Our Technology

- Redwood AI is building a proprietary AI-powered chemistry platform that integrates advanced chemical analysis with machine learning to predict and optimize synthesis pathways, accelerating drug discovery and molecular design while reducing time, cost, and complexity.
- As the platform scales, it builds a growing proprietary synthesis and reaction dataset derived from real-world deployments, enhancing model performance and creating a competitive advantage that supports future AI-enabled candidate generation and comprehensive pipeline support.

Core Platform

- Redwood's core platform enables scalable exploration of chemical space and optimization of synthesis pathways through integrated AI-driven chemistry analysis, designed for pharmaceutical and biotechnology organizations and broader strategic industries.

Commercialization Strategy

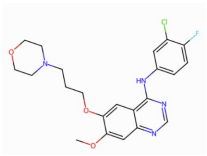
- Redwood aims to commercialize its platform through a subscription-based software-as-a-service model, initially focused on pharmaceutical and biotechnology organizations.
- Each deployment strengthens Redwood's proprietary synthesis and reaction dataset, creating a compounding data advantage over time.

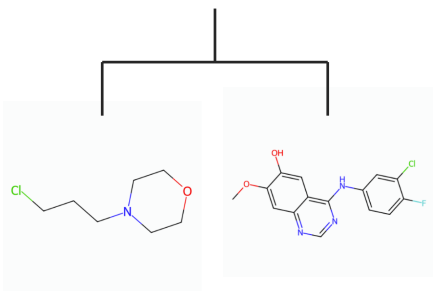
Redwood AI intends to expand toward AI-enabled candidate generation and comprehensive drug pipeline support, leveraging its growing proprietary data foundation.

Existing Technology – Scale and Accuracy

Conventional

Therapeutic drug for review





AI-Assisted

Manual Process

Drug must be manually reviewed, with potentially thousands of starting materials.

***Multi-week** planning per attempt*

- Manual review cannot be scaled.
- Operational costs for multi-chemist review means either long turnaround times or high project costs.
- Fewer options and contingencies are considered.

Redwood AI Model Process

Multiple pathways generated.
Less than **1 minute** per pathway.
~**95%** model accuracy.
Abbreviated manual review.

- The model is proprietary and uses large language models trained on over 1 billion molecules and 4 million reactions.
- Every step of the synthesis is automatically cost- and vendor-evaluated from 60+ global sources.
- Safety and environmental predictions included.

Platform Evolution

Strategic roadmap for expanding synthesis intelligence into AI-driven drug generation.

Today

- AI-powered synthesis intelligence for pathway prediction and optimization, while capturing structured synthesis and reaction data that supports future candidate generation.

Next

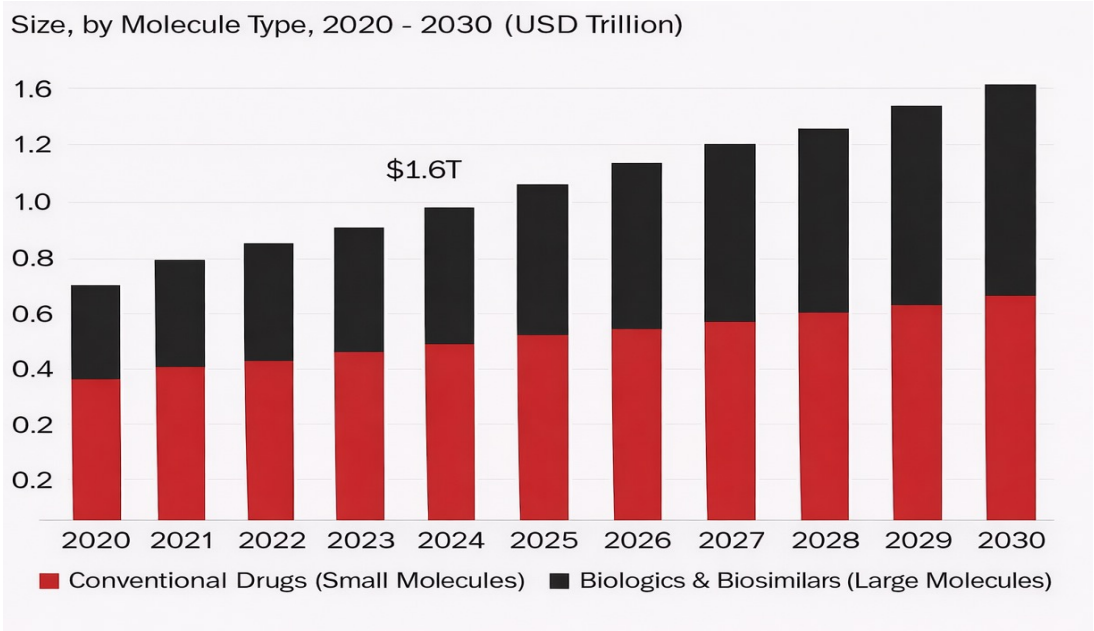
- Deeper integration into discovery and molecular design processes, leveraging accumulated synthesis data to enable faster iteration, improved prioritization, and AI-driven decision support.

Future

- AI-enabled candidate generation and broader drug pipeline support, enabled by expanding synthesis and reaction datasets, including potential proprietary drug candidates.

Positioned Across Intersecting Pharmaceutical Markets

Global Pharmaceutical Market Size
2020 to 2030 (USD Trillion)



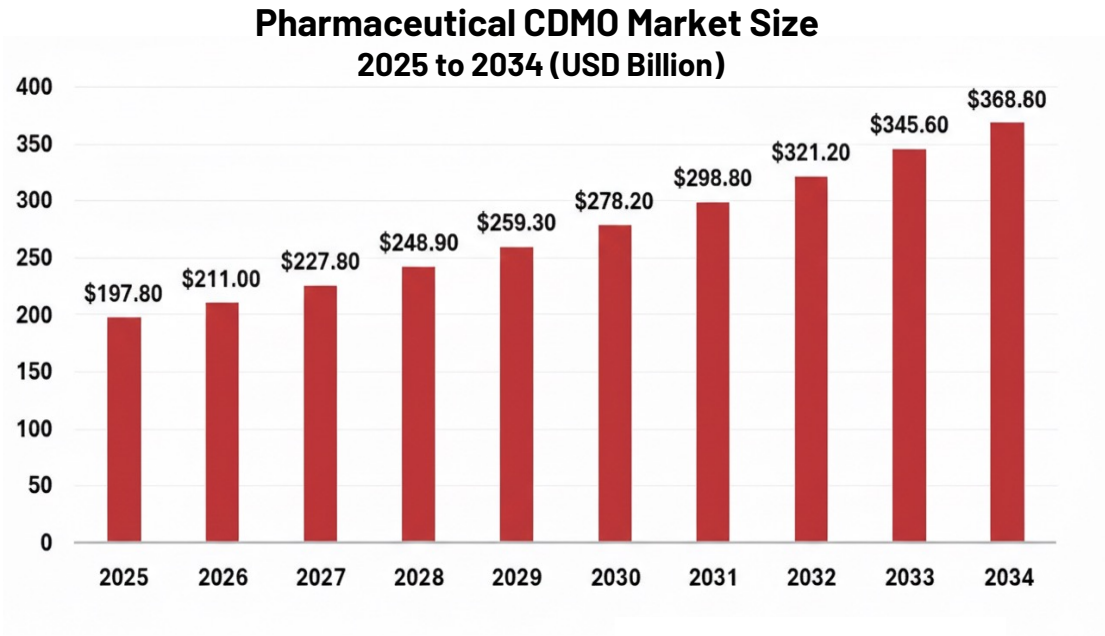
Source: https://www.grandviewresearch.com/industry-analysis/pharmaceutical-market-report

Redwood's AI-powered chemistry platform operates at the intersection of pharmaceutical infrastructure, AI-driven discovery, and next-generation drug creation.

- **Embedded within the $1.65T USD (2024) global pharmaceutical market, projected to exceed ~$2.35T USD by 2030.[1]**
- **Operates within the $197.4B+ USD global CDMO market, projected to grow ~$368.7B USD by 2034.[2]**
- **Exposure to the $6.9B USD (2025) AI-enabled drug discovery market, projected to reach ~$17.81B USD by 2034.[3]**
- **Intends to expand into AI-enabled drug candidate generation and comprehensive drug pipeline support, including potential proprietary candidates.**

Source 1: https://www.grandviewresearch.com/industry-analysis/pharmaceutical-market-report
Source 2: https://www.precedenceresearch.com/pharmaceutical-cdmo-market
Source 3: https://www.precedenceresearch.com/artificial-intelligence-in-drug-discovery-market

AI Acceleration in the Global CDMO Market



AI adoption in drug manufacturing and development is accelerating, creating a structural opportunity within the global CDMO market.

Market Growth

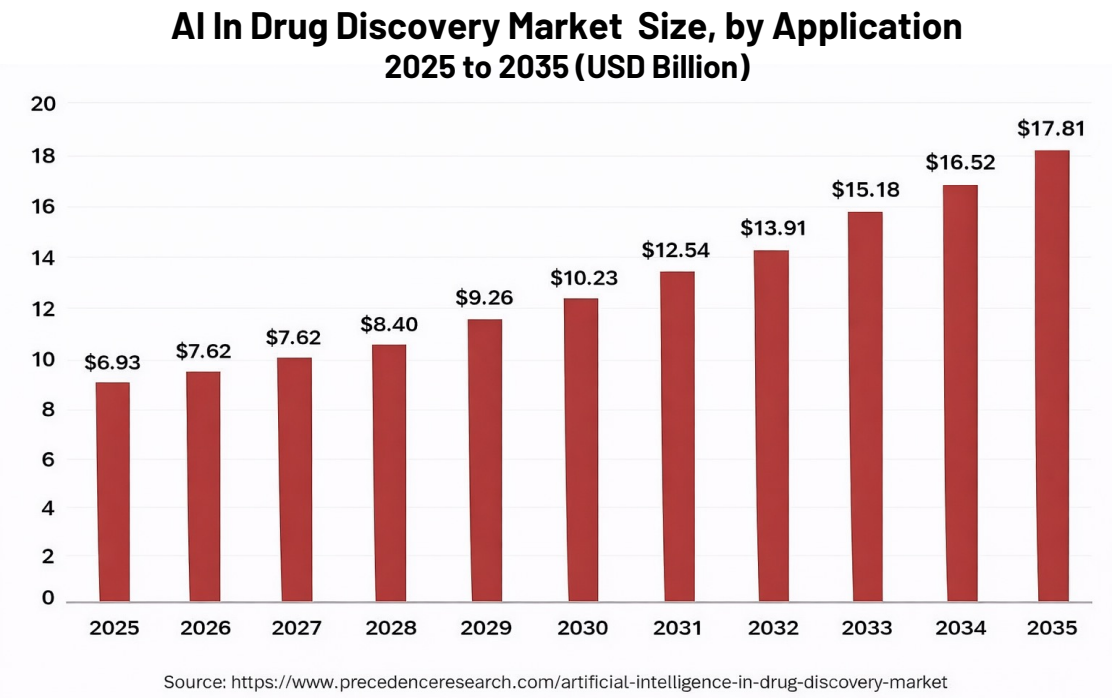
- The global CDMO market is projected to grow from $197.4B USD in 2025 to ~$368.7B USD by 2034.[1]

Why This Matters

- CDMOs underpin drug development and commercialization infrastructure.[2]
- Increasing molecule complexity and biologics demand require more advanced synthesis planning and scalable manufacturing solutions.[2]
- Redwood's AI-powered chemistry platform integrates directly into this infrastructure, improving speed, cost efficiency, and scalability across the drug lifecycle.

Source 1: https://www.precedenceresearch.com/pharmaceutical-cdmo-market
Source 2: https://pharmaceutical manufacturer.media/pharmaceutical-industry-insights/latest-pharmaceutical-manufacturing-industry-insights/pharma-outsourcing-trends-2025-partnership-precision-and-res/
Source 3: https://www.contractpharma.com/exclusives/ai-in-pharma-manufacturing-trends-applications-shortening-timelines/

AI in Drug Discovery and Molecular Design



Source: https://www.precedenceresearch.com/artificial-intelligence-in-drug-discovery-market

AI adoption is accelerating in early discovery, molecular design, and candidate prioritization.

Market Growth

- The global AI in drug discovery market is projected to grow from $6.9B USD in 2025 to ~ $17.81B USD by 2035.[1]
- Forecasts consistently show double-digit growth as AI becomes embedded in early-stage discovery and design.[1]

Why This Matters

- Early-stage discovery and molecular design are capital-intensive and iterative.
- AI enables broader exploration of chemical space and faster prioritization.
- Platforms that integrate synthesis intelligence with discovery and candidate prioritization are positioned to capture greater value across the drug development lifecycle.

Source 1: https://www.precedenceresearch.com/artificial-intelligence-in-drug-discovery-market

Competitive Landscape – Synthesis

Company	Cost Included?	Synthesis Captured?	Scale Included?	Safety Included?	Environment Review?
Redwood AI, 2026	+	++	+	+	+
IBM RXN	–	+	–	–	–
Iktos Spaya	+	+	–	–	–
Merck Synthia	+	+	–	+/–	+/–
ChemAIRS	–	+	+	+/–	–

Sources: Company websites, product documentation, published literature, and management's assessment as of February 2026.

+ = native capability, +/– = partial or via companion tool,– = not available

Comparable AI Drug Discovery Platforms

Company	Location	Total Capital Raised (USD)	Notes
OWKIN	France	**$300M +**	**AI for drug and diagnostic discovery.** **Backed by Sanofi and Bristol Myers Squibb.**
Insilico Medicine	USA / Hong Kong	**$400M +**	**AI driven generative drug discovery platform.** **AI designed candidates advanced to clinical trials.**
Generate:Biomedicines	USA	**$700M +**	**Generative biology for therapeutic design.** **Backed by Amgen.**
Recursion	USA	**$1B +**	**AI for drug discovery platform.** **Publicly listed with with major pharma partnerships.**

Source: Publicly available financing disclosures, including company press releases, regulatory filings, and third-party databases. Information believed to be accurate as of the dates shown.

Who We Are

- Two successful private company exits and multiple IPOs.
- Experience ranging from chemistry and data science to financing.
- Affiliations with top US and Canadian Universities.
- Public company experience, listings on NASDAQ, CSE, TSX and TSX-V.

Team

Louis Dron, MSc –
CEO

Kristian Thorlund, PhD –
President & Director

Glenn Sammis, PhD –
Head of Chemistry

Ofir Harari, PhD –
Head of AI

Prince Lat, PhD –
Senior Data Scientist

Joey Lai –
Research Scientist

Directors & Officers

Nico Mah –
CFO & Corporate Secretary

Masoud Darbandi –
Director

Graydon Bensler –
Director

Zachary Stadnyk –
Director

Matthew Mingay –
Director

TEAM

Louis Dron, MSc
CEO

Mr. Dron is a healthcare executive with multidisciplinary experience spanning clinical science, health technology, and leadership roles across corporate and research settings. His background includes clinical diagnostics and leading research teams focused on real-world evidence in healthcare. He began his career in medical diagnostics at Johnson & Johnson and the UK National Health Service, later transitioning into senior research and development leadership roles integrating real-world evidence, biostatistics, and epidemiology into healthcare decision-making. Mr. Dron also serves as an advisor to the Canadian Drug Agency and the Bill & Melinda Gates Foundation and is a graduate of the University of Manchester and the University of Leicester.

Kristian Thorlund, PhD
President & Director

Dr. Thorlund, with over 15 years of experience in data science and AI, is an established serial entrepreneur having been involved in the foundation of five Canadian-based businesses, with two successful multi-million dollar exits, over the past decade focused on health technologies. Kristian is an expert in AI and data analysis, ranking within the top 1% of researchers in his field worldwide by citation count. Alongside his business interests, Kristian is a part-time professor at McMaster University, acquiring over $6 million in grants. He has also held an academic appointment at Stanford University and has collaborated extensively with the Bill & Melinda Gates Foundation. He is a graduate of the University of Copenhagen and McMaster University.

Glenn Sammis, PhD
Head of Chemistry

Dr. Sammis is a worldwide leader in chemistry, acting as an accomplished academic with nearly two decades of experience. Currently, a professor at the University of British Columbia, he has built an exceptional teaching record, excelling across a wide range of courses, student evaluations, course development, creation of innovative materials, and teaching leadership. At his time at UBC, Dr. Sammis has acquired over $5.5m in grants. Outside of his research group being at the forefront of pioneering advances in radical and photochemical processes, Glenn has acted as an advisor for synthesis problems for over 10 private companies. He is a graduate of Stanford University and Harvard University.

Ofir Harari, PhD
Head of AI

Dr. Harari is a highly experienced statistician and data scientist with over 15 years of experience across various industries, including healthcare, pharmaceuticals, finance and academia. He has a proven track record in both practical data analysis and methodological research, consistently mentoring teams and advancing innovative solutions in healthcare, AI, and statistical science. In recent years, in addition to his tenure at Redwood AI, he served as a Head of Biostatistics at Purpose Life Science and has previously worked for PayPal. He is a graduate of Ben Gurion University and Tel Aviv University.

Prince Lat, PhD
Senior Data Scientist

Dr. Lat is a passionate researcher and data scientist with a decade of experience. His research spans multiple disciplines, including bioinformatics, biophysics, biochemistry, molecular biology, and DNA nanotechnology. He has also worked in biostatistics and data science, applying these tools to extract insights from complex datasets. He is a graduate of IIT Kanpur and Simon Fraser University.

TEAM CONT’

Nico Mah
CFO & Corporate Secretary

Mr. Mah is a Chartered Professional Accountant and has nearly 8 years of experience in auditing and public accountancy, having been an associate and subsequently a manager at PricewaterhouseCoopers LLP, the global audit and assurance, tax, deals and consulting firm from September 2015 to January 2023. He holds a Bachelor of Commerce degree, majoring in Accounting, from the University of Calgary and a CPA designation in Alberta, Canada.

Zachary Stadnyk
Director

Mr. Stadnyk is a public company executive with over 15 years of experience across healthcare, wellness, technology, cannabis, and private equity. He has held senior capital markets and leadership roles, including Head of Corporate Finance at The Supreme Cannabis Company, founder of DC Acquisition Corp. (TSXV), Head of Life Sciences at the TSX and TSXV working with more than 140 listed issuers, and Chief Executive Officer of Love Pharma Inc. He holds a Bachelor of Commerce in Entrepreneurial Management from Royal Roads University.

Graydon Bensler
Director

Mr. Bensler is a financial professional and Chartered Financial Analyst with experience advising private businesses and publicly traded companies in Canada and the United States. He has held investor relations and capital markets roles, including at Kin Communications Inc. and Evans & Evans, and has served as a director of publicly listed companies including Qualigen Therapeutics Inc., Onco-Innovations Limited, and Health Logic Interactive Inc. Mr. Bensler holds a Bachelor of Management and Organizational Studies with a specialization in Finance from the University of Western Ontario.

Masoud Darbandi
Director

Mr. Darbandi is a sales strategist with over 30 years of experience leading national distribution and client relations across the professional wellness industry. He has driven growth for established brands including WELLA, AMERICAN CREW, and NIOXIN and brings experience in commercialization, customer engagement, and brand development within complex stakeholder environments.

Matthew Mingay
Director

Mr. Mingay is a Research Data Scientist at Lawrence Berkeley National Laboratory (UC Berkeley) working at the intersection of biotechnology, computer science, and artificial intelligence. He has over ten years of experience in molecular biology and data science and has contributed to peer-reviewed research in areas including cancer genomics and epigenetics.

Redwood AI Highlights

Expanding Market Opportunity

- Embedded within the $1.65T (2024) global pharmaceutical market, projected to exceed ~$2.35T by 2030[1]
- Operating within the $197.4B+ (2025) global CDMO infrastructure market[2]
- Positioned within the $6.9B (2025) AI-enabled drug discovery market, projected to reach ~$17.81B by 2034[3]

Proprietary AI-Powered Technology

AI-powered chemistry platform designed to accelerate drug discovery and molecular design by predicting and optimizing chemical synthesis pathways. Internally benchmarked model performance demonstrates high predictive accuracy across tested datasets, supported by a growing proprietary reaction dataset.

Purpose-Built for AI-Enabled Drug Discovery

Purpose-built platform integrating synthesis intelligence with discovery and molecular design, enabling scalable exploration of chemical space and supporting long-term expansion into AI-enabled candidate generation and potential proprietary asset development.

Broad Applicability Across Scientific Markets

Applicable across pharmaceuticals, biotechnology, and broader chemical sciences, including drug development, synthesis planning, intellectual property assessment, and non-pharmaceutical chemical applications.

Clear Commercialization Strategy

Subscription based SaaS model serving pharmaceutical and biotechnology organizations, with strategic expansion toward AI-enabled candidate generation and comprehensive drug pipeline support, including potential proprietary asset development.

Experienced Leadership Team

Led by a multidisciplinary team with expertise in artificial intelligence, data science, chemistry, and healthcare, supported by academic and industry experience.

Source 1: https://www.grandviewresearch.com/industry-analysis/pharmaceutical-market-report
Source 2: https://www.precedenceresearch.com/pharmaceutical-cdmo-market
Source 3: https://www.precedenceresearch.com/artificial-intelligence-in-drug-discovery-market

CSE:
AIRX
Redwood AI

Redwood AI

Contact

Address:

1505 W 2nd Ave, Suite 506 Vancouver, BC, V6J1H2

investors@redwoodai.com

www.redwoodai.com