

Neurology

Effect-Size Predictions

Using Data-free Virtual Clinical Trials

94% accuracy across 122 Neurology trials

Overall: 96% across all 604 validated trials



 BioinvestGPT

Evidence Dossier

April 8, 2026

Platform Credentials at a Glance

94%

Prospective Prediction Accuracy

Across 122 validated trials (of 604 total) | Two-sided $p < 0.0001$

EA

100% Ex-Ante
Every prediction certified and sent to clients before trial results were known

RG

Industrial Rigor
Validated against real FDA/EMA clinical readouts

EP

Empirical Certainty
Statistically significant with two-sided $p < 0.0001$

Data-Free
Zero-Patient Input

White-Box
Root Cause Explained

Head-to-Head
vs. Standard of Care

122 of 604
Two-Sided $p < 0.0001$ ● LIVE

STRATEGIC VALUE PILLARS

Zero-Data Advantage

NO DATA SHARING
Predictions require **zero proprietary patient data**, eliminating **IP liability** and privacy friction.

2M VIRTUAL PATIENTS
Pre-built, **clinically validated** virtual cohorts delivering rigorous **effect-size predictions** across all major indications.

Eliminating Blind Spots

SURROGATE DETECTION
Simultaneously predicts early surrogates (**ORR/PFS**) and final efficacy (**OS**) to expose **hidden discordances**.

FUTURE-PROOFING
Benchmarks against **competitor** pipeline drugs to ensure **superiority at launch**, not just at trial start.

Identify Biological Root Cause

BEYOND BLACK-BOX
Every prediction is backed by **biological root cause identification**, not opaque probability scores.

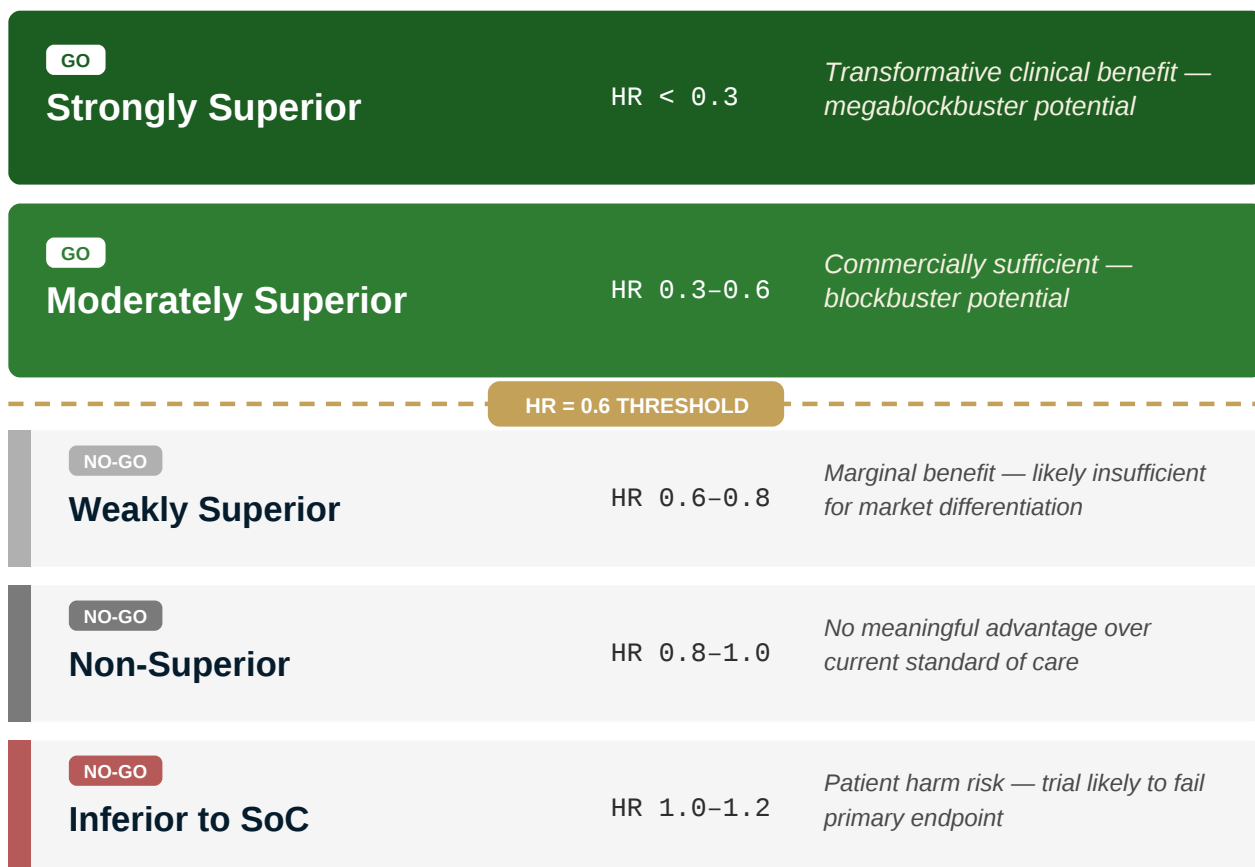
ACTIONABLE DRIVERS
Pinpoints specific **failure/success drivers: target selection, drug design, delivery method, or patient stratification**.

Effect-Size Portfolio Gating Spectrum

Neurology

122 of 604 validated trials

HAZARD RATIO GO/NO-GO THRESHOLD SPECTRUM



Configurable Threshold

Clients may select any HR value as the GO/NO-GO boundary based on their commercial case. We use HR = 0.6 as the default threshold for effect-size GO/NO-GO prospective predictions. GO = commercially sufficient effect size; NO-GO = commercially insufficient. See Trial Detail pages for each ex-ante validated prediction.

EX-ANTE PREDICTION ACCURACY



Full dataset: 96.0% (604 trials) | Filtered: 94.3% (122 trials) | Delta: -1.8pp

Predictive Performance Intelligence

Neurology

122 prospectively validated GO/NO-GO predictions

– IMPAIRMENT NO-GO correct rate

Negative Predictive Value (NPV)

99%

89/90 NO-GO predictions validated
 $TN / (TN + FN)$

99% of BioinvestGPT NO-GO predictions are prospectively independently validated, signaling **cost savings** from lackluster drugs. A NO-GO signal reliably identifies commercially insufficient FIC/BIC assets before Phase III spend, **preventing impairment write-downs**.

++RELIABILITY GO/NO-GO correct rate

Accuracy

94%

115/122 validated prospective predictions
 $(TP + TN) / (TP + TN + FP + FN)$

94% of BioinvestGPT GO/NO-GO predictions are correct for any-stage FIC/BIC assets, **nearly 10 times higher** than the industry's current best level (5–10%). BioinvestGPT prospectively predicts both drug successes and failures with **near-perfect reliability**.

++REVENUE GO correct rate

Positive Predictive Value (PPV)

81%

26/32 GO predictions validated
 $TP / (TP + FP)$

81% of BioinvestGPT GO predictions are prospectively independently validated as commercially sufficient drugs. A GO signal identifies **blockbuster FIC/BIC assets** with high reliability, enabling **revenue-maximizing** portfolio predictions.

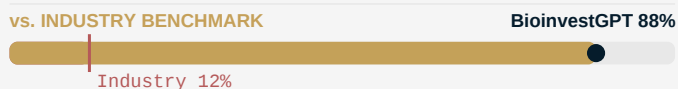
++RELIABILITY GO/NO-GO bias-free rate

F1-Score

88%

Harmonic mean of Precision and Recall
 $2 \times TP / (2 \times TP + FP + FN)$

Both GO and NO-GO predictions are almost **equally likely to be correct**, even though **blockbuster drugs are much rarer**. The model does not simply guess "failure" — it **makes the right call on both sides**.



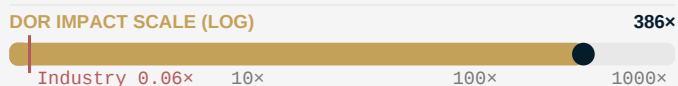
++RELIABILITY GO/NO-GO reliability rate

Diagnostic Odds Ratio (DOR)

386×

386× more likely correct than incorrect
 $(TP \times TN) / (FP \times FN)$

BioinvestGPT GO/NO-GO predictions is **386 times more likely to correctly identify blockbuster assets** (true positives) and **rule out commercially insufficient assets** (true negatives), compared with the chance of making an incorrect prediction.



* The F1-Score and DOR for current drug GO/NO-GO prospective prediction approach is estimated based on the industry 10% nomination rate (boehringer-ingelheim.com/science-innovation/human-health-innovation/drug-discovery).

Therapeutic Area Breakdown

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Exhibit 1

Prediction accuracy remains consistently high across all therapeutic domains

BioinvestGPT's validation dataset spans 1 major therapeutic area, demonstrating that predictive accuracy is not an artifact of concentration in any single domain.



1. Source: BioinvestGPT validated prediction database. Classification based on clinical readout outcomes.
2. Therapeutic area mapping uses standardized groupings across 1 domain. Accuracy = (TP + TN) / Total.

Sponsors Coverage Breakdown

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Exhibit 2

Validation spans 66 public biopharma sponsors across all market capitalizations

Coverage spans large-cap through small-cap sponsors, confirming model generalizability is not concentrated in any single company cohort.

ABBV (AbbVie)	100.0%
SAGE (Sage Therapeutics)	80.0%
NBIX (Neurocrine Biosciences)	100.0%
ALKS (Alkermes)	100.0%
AMLX (Amylyx Pharmaceuticals)	66.7%
BHVN (Biohaven Pharmaceutical...)	100.0%
TAK (Takeda)	100.0%
PTCT (PTC Therapeutics)	100.0%
NVS (Novartis)	100.0%
JNJ (Johnson & Johnson)	100.0%
AXSM (Axsome Therapeutics)	66.7%
GHRS (GH Research)	100.0%
VRTX (Vertex Pharmaceuticals)	100.0%
ITCI (Intra-Cellular Therapie...)	100.0%
SNY (Sanofi)	100.0%
RHHBY (Roche Group)	100.0%
JAZZ (Jazz Pharmaceuticals)	100.0%
ALEC (Alecto)	100.0%
ACAD (ACADIA Pharmaceuticals)	0.0%
IONS (Ionis Pharmaceuticals)	100.0%

Total unique sponsors: 66 | Average accuracy across top sponsors: 90.7%

1. Search sponsor name on data.bioinvestgpt.com to access the company-specific audited timestamped ex-ante predictions and readout validations.

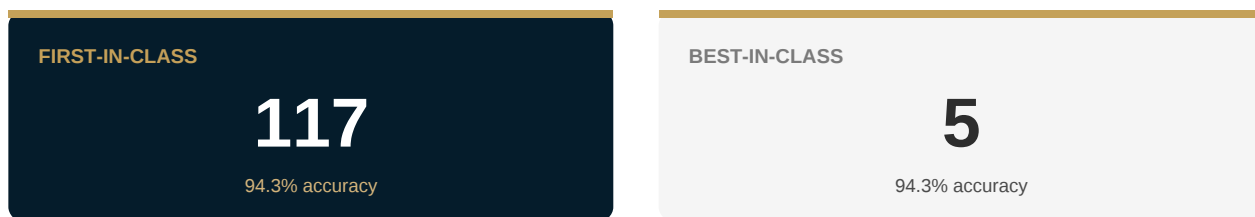
Drug Innovation & Modality Coverage Breakdown

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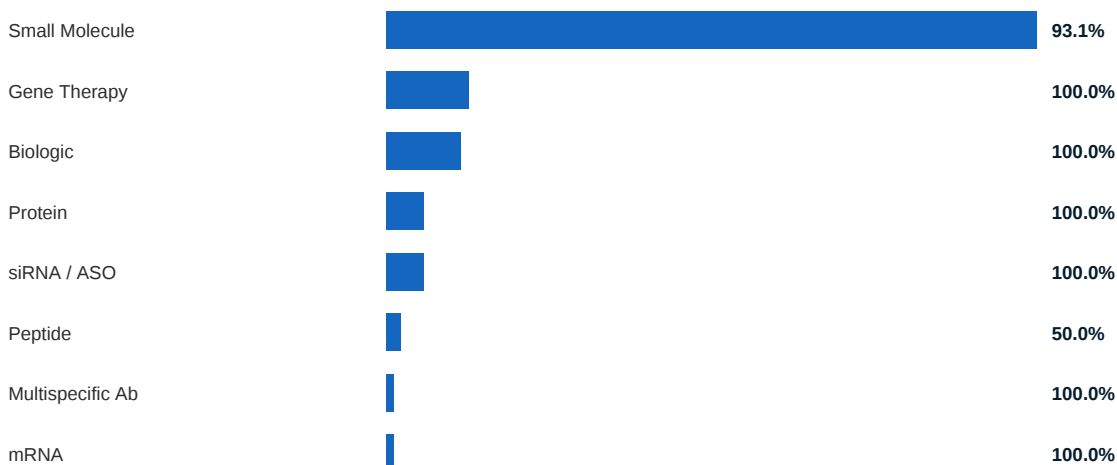
Exhibit 3

Validated across 100 distinct drug assets spanning 8 modalities

DRUG CLASSIFICATION



DRUG MODALITY DISTRIBUTION



Drug Assets Coverage Breakdown

Neurology

Exhibit 4

Validated across 100 distinct drug assets with consistently high prediction accuracy

GH001		100.0%
Lumateperone		100.0%
Tolebrutinib		100.0%
Troiriluzule		100.0%
TAK861		100.0%
PTC518		100.0%
Simufilam		100.0%
Aticaprant		100.0%
CT1812		100.0%
CTI-1601		100.0%
Tavapadon		100.0%
REL-1017		100.0%
SAGE-718 (dalzanemdor)		100.0%
Emraclidine (CVL-231)		100.0%
AMT-130		100.0%
Alixorexton (ALKS2680)		100.0%
Fenebrutinib		100.0%
NBI-1070770		100.0%
Suvecaltamide		100.0%
ORX750		100.0%
NTLA-2001 (nex-z)		100.0%
AL001		100.0%
BOTOX		100.0%

Total unique drug assets: 100 | Average accuracy across top drugs: 100.0%

1. Search drug name on data.bioinvestgpt.com to access the drug-specific audited timestamped ex-ante predictions and readout validations.

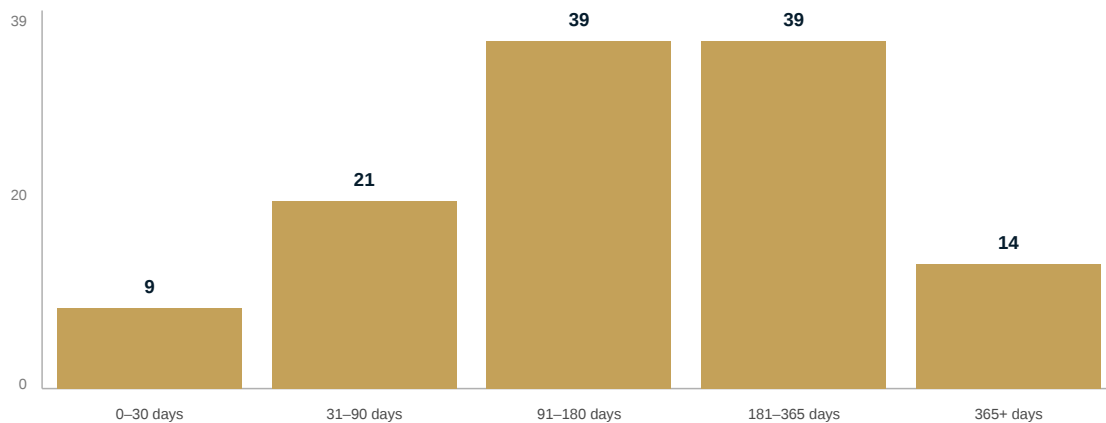
Temporal Integrity: Prospective Proof

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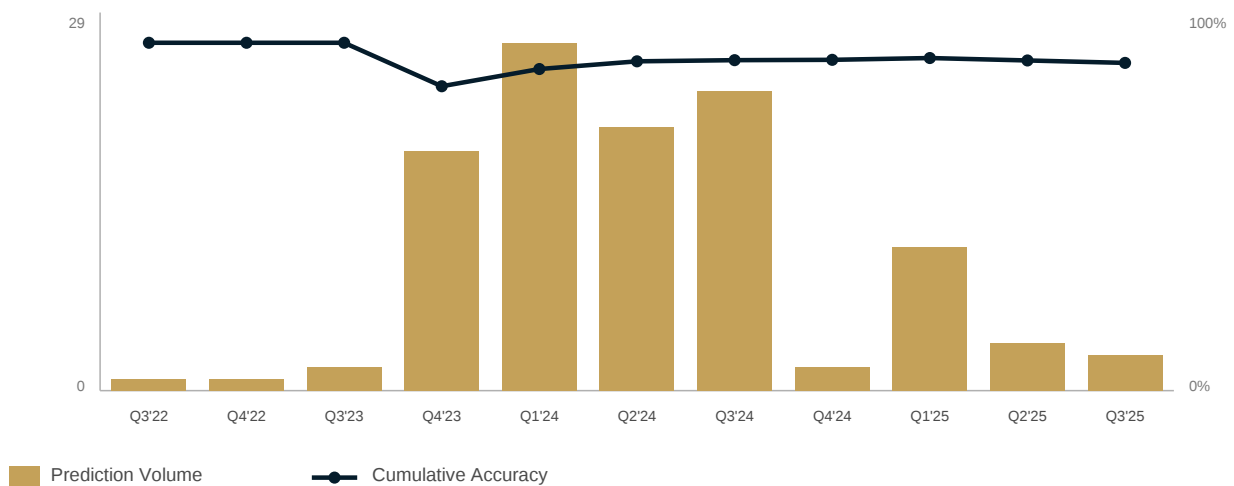
Exhibit 5

100% of predictions issued before clinical readout with median lead time of 196 days

LEAD TIME DISTRIBUTION



QUARTERLY PREDICTION VOLUME & CUMULATIVE ACCURACY



All 122 predictions were certified ex-ante, with an average lead time of 196 days before clinical readout. This temporal integrity is cryptographically verifiable and eliminates any possibility of post-hoc fitting.

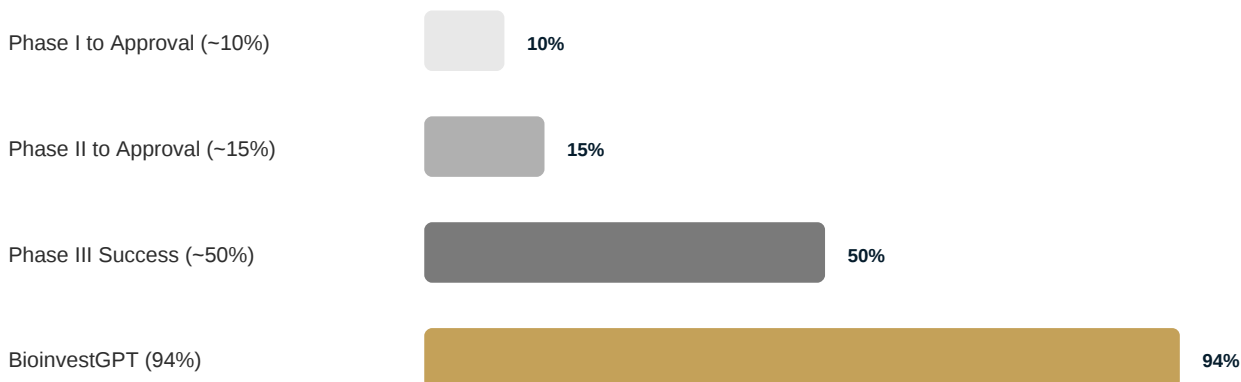
Competitive Benchmark Analysis

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Exhibit 6

BioinvestGPT demonstrates multi-order-of-magnitude improvement over industry baselines

CLINICAL DEVELOPMENT SUCCESS RATES



QUANTITATIVE BENCHMARK

Metric	BioinvestGPT	Industry Avg	Context
Accuracy	94.3%	~10-15%	Phase I-to-approval historical rate
Precision (PPV)	81.3%	~11%	Avg drug approval probability
NPV	98.9%	~60%	Combined Phase I–III attrition detection
F1-Score	88.1%	12%	Based on industry 10% nomination rate
DOR	385.7x	0.06x	Based on industry 10% nomination rate
Lead Time	196 days	0 days	Post-hoc industry standard

Note: Industry success rates measure population-level probability of a drug advancing through clinical development phases. BioinvestGPT predicts phase-agnostic effect-size-based clinical benefit using HR = 0.6 as the GO/NO-GO threshold to classify commercially sufficient vs. insufficient drugs, with all predictions certified ex-ante. The comparison illustrates the magnitude of predictive alpha, not a direct methodological equivalence.

REDIRECTABLE R&D CAPITAL

\$26.7B

89 of 90 NO-GO predictions validated × \$300M avg trial cost

CAPTURED PORTFOLIO VALUE

\$26.0B

26 of 32 GO predictions validated × \$1B avg revenue

Validated Trial Evidence: Filtered Registry (122 of 604 trials)

Filtered view: **Neurology**

#	Clinical Trial	Certified Prediction	Validation	Result
1756	Tolebrutinib NCTID: NCT04411641 Phase: Phase 3 Class: First-In-Class Modality: small molecule MoA: CNS-penetrant BTK inhibitor Area: Nervous System Diseases Indication: Nonrelapsing Secondary Progressive Multiple Sclerosis (NRSPMS) Human Patients: 1131 Sponsor: Sanofi (SNY)	Date: 19 Aug 2024 Quarter: Q4'24 Batch 12 Technical: FAILURE (statistically insignificant clinical benefit in 6-month CDP against placebo) Commercial: FAILURE (commercially insufficient clinical benefit in 6-month CDP inferior to siponimod)	Readout: 24 Dec 2025 Lead Time: 492 days in advance Interpretation: tolebrutinib achieved 31% placebo-adjusted reduction in 6-month (CDP); non-superior to siponimod's 29-33% placebo-adjusted reduction in 6-month CDP in the EXPAND trial NCT01665144 (see add'l link below); FDA issued CRL rejecting Sanofi's NDA for tolebrutinib for NR-SPMS	Correct Prediction Conclusion: statistically significant and commercially insufficient Classification: True Negative (TN)
1909	Alixorexton (ALKS2680) NCTID: NCT06555783 Phase: Phase 2 Class: First-In-Class Modality: small molecule MoA: OX2R agonist Area: Nervous System Diseases Indication: Narcolepsy Type 2 Human Patients: 80 Sponsor: Alkermes (ALKS)	Date: 8 Feb 2025 Quarter: Q2'25 Batch 9 Technical: SUCCESS (statistically significant clinical benefit in MWT for NT2 compared with placebo featuring a mild positive dose-response relationship and a moderate positive dose-toxicity relationship) Commercial: SUCCESS (commercially sufficient clinical benefit in MWT for NT2; non-inferior non-superior to ALKS2680/TAK861 in the best-case scenarios of optimal dosing regimens)	Readout: 12 Nov 2025 Lead Time: 277 days in advance Interpretation: Alixorexton 14mg/18mg met the primary endpoint in MSL on MWT at week 8 (p<0.05) and Alixorexton 18mg met the key secondary endpoint in ESS (p<0.05)	Correct Prediction Conclusion: statistically significant (featuring a mild positive dose-response relationship) and commercially sufficient (no approved treatment so far) Classification: True Positive (TP)
2048	Fenebrutinib NCTID: NCT04544449 Phase: Phase 3 Class: First-In-Class Modality: small molecule MoA: CNS-penetrant BTK inhibitor Area: Nervous System Diseases Indication: Primary Progressive Multiple Sclerosis Human Patients: 985 Sponsor: Roche Group (RHHBY)	Date: 28 Jul 2025 Quarter: Q4'25 Batch 4 Technical: SUCCESS (statistically significant yet moderate clinical benefit in 12-week CDP compared with placebo) Commercial: SUCCESS (commercially sufficient yet moderate clinical benefit in 12-week CDP moderately superior to ocrelizumab)	Readout: 10 Nov 2025 Lead Time: 105 days in advance Interpretation: fenebrutinib met the primary endpoint of delay in the onset of composite confirmed disability progression over a period of at least 120 weeks of treatment; being numerically superior to ocrelizumab	Correct Prediction Conclusion: statistically significant and commercially sufficient (ocrelizumab is the only SoC) Classification: True Positive (TP)
1662	NBI-1070770 NCTID: NCT06267846 Phase: Phase 2 Class: Best-In-Class Modality: small molecule MoA: oral anti-NMDAR-NR2B NAM Area: Mental Disorders Indication: Major Depressive Disorder Human Patients: 73 Sponsor: Neurocrine Biosciences (NBIX)	Date: 6 Jul 2024 Quarter: Q3'25 Batch 10 Technical: FAILURE (statistically maybe significant yet very weak additive clinical benefit in MADRS) Commercial: FAILURE (commercially insufficient additive clinical benefit in MADRS inferior to lumateperone)	Readout: 10 Nov 2025 Lead Time: 492 days in advance Interpretation: NBI-1070770 failed to meet the primary efficacy endpoint of MADRS compared with placebo	Correct Prediction Conclusion: statistically insignificant and commercially insufficient Classification: True Negative (TN)
1138	Suvecaltamide NCTID: NCT05642442 Phase: Phase 2 Class: First-In-Class Modality: small molecule MoA: t-type calcium channel antagonist Area: Nervous System Diseases Indication: Moderate to Severe Residual Tremor in Parkinson's Disease Human Patients: 169 Sponsor: Jazz Pharmaceuticals	Date: 21 Nov 2023 Quarter: Q2'25 Batch 3 Technical: FAILURE (statistically insignificant clinical benefit) Commercial: FAILURE (commercially insufficient clinical benefit)	Readout: 6 Nov 2025 Lead Time: 716 days in advance Interpretation: suvecaltamide failed to meet the primary efficacy endpoint of TETRAS composite outcome score compared with placebo (P=0.2363)	Correct Prediction Conclusion: statistically insignificant and commercially insufficient Classification: True Negative (TN)

Validated Trial Evidence: Filtered Registry (122 of 604 trials)

Filtered view: **Neurology**

#	Clinical Trial	Certified Prediction	Validation	Result
	(JAZZ)			
1907	ORX750 NCTID: NCT06752668 Phase: Phase 2 Class: First-In-Class Modality: small molecule MoA: OX2R agonist Area: Nervous System Diseases Indication: Narcolepsy and Idiopathic Hypersomnia Human Patients: 96 Sponsor: Centessa Pharmaceuticals (CNTA)	Date: 8 Feb 2025 Quarter: Q2'25 Batch 9 Technical: SUCCESS (statistically significant clinical benefit in MWT for NT1 NT2 and IH compared with placebo; featuring a differential positive dose-response relationship (NT1 >> IH > NT2) and a differential positive dose-toxicity relationship (NT2 > IH) Commercial: SUCCESS (commercially sufficient clinical benefit in MWT for NT1 NT2 and IH in observance of differential therapeutic windows (narrow range of high dose for NT2 medium range of medium dose for IH broad range of low dosage for NT1); non-superior to ALKS2680/TAK861 in the best-case scenarios of optimal dosing regimens)	Readout: 5 Nov 2025 Lead Time: 270 days in advance Interpretation: ORX750 1.5mg for NT1 achieved a >20 minute change from baseline in mean sleep latency compared with placebo on the MWT at Week 2 (p=0.0026). ORX750 4mg for NT2 achieved a >10 minute change from baseline in mean sleep latency compared with placebo on the MWT at Week 2 (p=0.0193). ORX750 2mg for IH achieved placebo-adjusted improvement in mean sleep latency compared with placebo on the MWT at Week 2 (p=0.0213)	Correct Prediction Conclusion: statistically significant (stronger efficacy in NT1 than in NT2/IH) and commercially probably sufficient Classification: True Positive (TP)
1116	NTLA-2001 (nex-z) NCTID: NCT04601051 Phase: Phase 1 Class: First-In-Class Modality: gene therapy MoA: NP-delivered CRISPR-Cas9 reducing TTR production Area: Nervous System Diseases Indication: Patients With Hereditary Transthyretin Amyloidosis With Polyneuropathy (ATTRv-PN) and With Transthyretin Amyloidosis-Related Cardiomyopathy (ATTR-CM) Human Patients: 72 Sponsor: Intellia Therapeutics (NTLA)	Date: 23 Jul 2023 Quarter: 2H'23 Batch 11 Technical: partial FAILURE (statistically insignificant clinical benefit in 6MWT for cardiomyopathy or in 10MWT for polyneuropathy) Commercial: FAILURE (commercially insufficient clinical benefit)	Readout: 27 Oct 2025 Lead Time: 827 days in advance Interpretation: nex-z phase 3 clinical trials in ATTR-CM (MAGNITUDE) and ATTR-PN (MAGNITUDE-2) have been paused due to grade 4 hepatotoxicity in a patient	Correct Prediction Conclusion: statistically insignificant and commercially probably insufficient Classification: True Negative (TN)
579	AL001 NCTID: NCT04374136 Phase: Phase 3 Class: First-In-Class Modality: monoclonal antibody (mAb) MoA: anti-SORT1 inhibitor Area: Nervous System Diseases Indication: Frontotemporal Dementia due to a progranulin gene mutation (FTD-GRN) Human Patients: 110 Sponsor: Alecto (ALEC)	Date: 28 Jul 2025 Quarter: Q4'25 Batch 3 Technical: FAILURE (statistically insignificant clinical benefit in CDR + NACC FTLD-SB compared with placebo) Commercial: FAILURE (commercially insufficient clinical benefit in CDR + NACC FTLD-SB)	Readout: 21 Oct 2025 Lead Time: 85 days in advance Interpretation: AL001 failed to meet the primary endpoint of slowing FTD-GRN progression	Correct Prediction Conclusion: statistically insignificant and commercially insufficient Classification: True Negative (TN)
1940	BOTOX NCTID: NCT05216250 Phase: Phase 2 Class: First-In-Class Modality: biologic toxin MoA: botulinum toxin type A Area: Nervous System Diseases Indication: Upper Limb Essential Tremor Human Patients: 174 Sponsor: AbbVie (ABBV)	Date: 24 Feb 2025 Quarter: Q2'25 Batch 12a Technical: FAILURE (statistically maybe significant yet very weak clinical benefit in TREDS-R compared with placebo) Commercial: FAILURE (commercially insufficient clinical benefit in TREDS-R/TETRAS UL inferior to propranolol)	Readout: 6 Oct 2025 Lead Time: 224 days in advance Interpretation: BOTOX achieved -1 placebo-adjusted improvement in TREDS-R total unilateral score (-2.61 vs -1.61 p=0.029); which is smaller than the 0.5-SD MCID threshold (>=4.2 point for TREDS-R)	Correct Prediction Conclusion: statistically significant weak clinical benefit and commercially probably insufficient (below-MCID improvement) Classification: True Negative (TN)
2047	Carbetocin Nasal Spray Date: 28 Jul 2025	Date: 28 Jul 2025	Readout: 24 Sep 2025	Missed Prediction

Validated Trial Evidence: Filtered Registry (122 of 604 trials)

Filtered view: **Neurology**

#	Clinical Trial	Certified Prediction	Validation	Result
	NCTID: NCT06173531 Phase: Phase 3 Class: First-In-Class Modality: peptide MoA: intranasally delivered peptide as a synthetic analog of oxytocin Area: Nervous System Diseases Indication: Hyperphagia in Prader-Willi Syndrome (PWS) Human Patients: 170 Sponsor: ACADIA Pharmaceuticals (ACAD)	Quarter: Q4'25 Batch 4 Technical: SUCCESS (statistically significant clinical benefit in HQCT compared with placebo) Commercial: SUCCESS (commercially sufficient clinical benefit in HQCT slightly-to-moderately superior to diazoxide choline)	Lead Time: 58 days in advance Interpretation: Carbetocin failed to meet the primary efficacy endpoint compared with placebo	Note: due to suboptimal disease modeling of PWS that has been permanently improved Conclusion: statistically insignificant and commercially insufficient Classification: False Positive (FP)
1886	ZYN002 NCTID: NCT04977986 Phase: Phase 3 Class: First-In-Class Modality: small molecule MoA: cannabidiol gel Area: Nervous System Diseases Indication: Fragile X Syndrome Human Patients: 215 Sponsor: Harmony Biosciences (HRMY)	Date: 26 Jan 2025 Quarter: Q2'25 Batch 5 Technical: partial SUCCESS (statistically maybe significant yet weak clinical benefit in ABC-C FXS only for patients with complete FMR1 methylation) Commercial: SUCCESS (commercially sufficient yet weak clinical benefit in ABC-C FXS only for patients with complete FMR1 methylation due to no FDA approved drug on the market)	Readout: 24 Sep 2025 Lead Time: 241 days in advance Interpretation: ZYN002 failed to meet the primary efficacy endpoint compared with placebo	Correct Prediction Conclusion: statistically insignificant and commercially insufficient Classification: True Negative (TN)
2013	Zilganersen (ION373) NCTID: NCT04849741 Phase: Phase 3 Class: First-In-Class Modality: antisense oligonucleotide (ASO) MoA: degrades GFAP mRNA Area: Nervous System Diseases Indication: Alexander Disease (AxD) Human Patients: 54 Sponsor: Ionis Pharmaceuticals (IONS)	Date: 7 May 2025 Quarter: Q3'25 Batch 6 Technical: partial SUCCESS (statistically maybe significant yet weak clinical benefit in 10MWT compared with placebo) Commercial: partial SUCCESS (commercially maybe sufficient yet weak clinical benefit in 10MWT at most near the minimal clinically important difference MCID)	Readout: 22 Sep 2025 Lead Time: 138 days in advance Interpretation: Zilganersen achieved a statistically significant improvement in 10MWT at week 61 (mean difference 33.3% p=0.0412)	Correct Prediction Conclusion: statistically borderline significant and commercially maybe sufficient (depending on whether 10MWT improvement exceeds MCID) Classification: True Negative (TN)
1908	Alixorexton (ALKS 2680) NCTID: NCT06358950 Phase: Phase 2 Class: First-In-Class Modality: small molecule MoA: OX2R agonist Area: Nervous System Diseases Indication: Narcolepsy Type 1 Human Patients: 92 Sponsor: Alkermes (ALKS)	Date: 8 Feb 2025 Quarter: Q2'25 Batch 9 Technical: SUCCESS (statistically significant clinical benefit in MWT for NT1 compared with placebo featuring a positive dose-response relationship) Commercial: SUCCESS (commercially sufficient clinical benefit in MWT for NT1 non-inferior non-superior to ORX750/TAK861 in the best-case scenarios of optimal dosing regimens)	Readout: 7 Sep 2025 Lead Time: 211 days in advance Interpretation: Alixorexton met the primary endpoint in MSL on MWT at week 6 (24 min for 4mg with p=0.01; 26 minutes for 6mg with p<0.0001; 28 minutes for 8mg with p<0.0001) and the key secondary endpoint in ESS (-6.4 for 4mg with p=0.01; -8.7 for 6mg with p<0.0001; -8.3 for 8mg with p<0.0001)	Correct Prediction Conclusion: statistically significant and commercially sufficient (no approved treatment so far) Classification: True Positive (TP)
1375	AMX0035 NCTID: NCT06122662 Phase: Phase 3 Class: First-In-Class Modality: small molecule MoA: sodium phenylbutyrate + taurursodiol Area: Nervous System Diseases Indication: Progressive Supranuclear Palsy Human Patients: 110 Sponsor: Amylyx Pharmaceuticals (AMLX)	Date: 26 Apr 2025 Quarter: Q2'25 Batch 14e Technical: FAILURE (statistically maybe significant yet very weak clinical benefit in PSPRS compared with placebo) Commercial: FAILURE (commercially insufficient clinical benefit in PSPRS though no FDA approved drug is available)	Readout: 27 Aug 2025 Lead Time: 123 days in advance Interpretation: AMX0035 failed to meet any primary or secondary endpoint; further development discontinued	Correct Prediction Conclusion: statistically insignificant and commercially insufficient Classification: True Negative (TN)

Validated Trial Evidence: Filtered Registry (122 of 604 trials)

Filtered view: **Neurology**

#	Clinical Trial	Certified Prediction	Validation	Result
1500	Troriluzole NCTID: NCT04641143 Phase: Phase 3 Class: First-In-Class Modality: small molecule MoA: riluzole prodrug Area: Mental Disorders Indication: Obsessive Compulsive Disorder Human Patients: 700 Sponsor: Biohaven Pharmaceuticals (BHAVN)	Date: 6 Mar 2024 Quarter: Q2'24 Batch 11 Technical: FAILURE (statistically insignificant additive clinical benefit) Commercial: FAILURE (commercially insufficient additive clinical benefit)	Readout: 11 Aug 2025 Lead Time: 523 days in advance Interpretation: troriluzole failed to achieve the efficacy primary endpoint	Correct Prediction Conclusion: statistically insignificant and commercially insufficient Classification: True Negative (TN)
1499	Troriluzole NCTID: NCT04693351 Phase: Phase 3 Class: First-In-Class Modality: small molecule MoA: riluzole prodrug Area: Mental Disorders Indication: Obsessive Compulsive Disorder Human Patients: 589 Sponsor: Biohaven Pharmaceuticals (BHAVN)	Date: 6 Mar 2024 Quarter: Q2'24 Batch 11 Technical: FAILURE (statistically insignificant additive clinical benefit) Commercial: FAILURE (commercially insufficient additive clinical benefit)	Readout: 11 Aug 2025 Lead Time: 523 days in advance Interpretation: troriluzole failed to achieve the efficacy primary endpoint	Correct Prediction Conclusion: statistically insignificant and commercially insufficient Classification: True Negative (TN)
1990	— NCTID: NCT05686239 Phase: Phase 2 Class: First-In-Class Modality: small molecule MoA: Inidasamine (RL-007) Area: Nervous System Diseases Indication: Cognitive Impairment Associated With Schizophrenia Human Patients: 242 Sponsor: ATAI Life Sciences (ATAI)	Date: 24 Apr 25 Quarter: Q3'25 Batch 2 Technical: FAILURE (statistically maybe significant yet very weak additive clinical benefit in MCCB compared with placebo) Commercial: FAILURE (commercially insufficient additive clinical benefit in MCCB inferior to KarXT)	Readout: 25 Jul 2025 Lead Time: — Interpretation: inidasamine failed to achieve the primary endpoint in MCCB score at week 6	Correct Prediction Conclusion: statistically insignificant and commercially insufficient Classification: True Negative (TN)
1911	TAK861 NCTID: NCT06470828 Phase: Phase 3 Class: First-In-Class Modality: small molecule MoA: OX2R agonist Area: Nervous System Diseases Indication: Narcolepsy Type 1 Human Patients: 168 Sponsor: Takeda (TAK)	Date: 8 Feb 2025 Quarter: Q2'25 Batch 11 Technical: SUCCESS (statistically significant clinical benefit in MWT for NT1 compared with placebo featuring a positive dose-response relationship) Commercial: SUCCESS (commercially sufficient clinical benefit in MWT for NT1 non-inferior non-superior to ORX750/ALKS2680 in the best-case scenarios of optimal dosing regimens)	Readout: 14 Jul 2025 Lead Time: 156 days in advance Interpretation: TAK861 met all primary and secondary endpoints	Correct Prediction Conclusion: statistically significant and commercially sufficient Classification: True Positive (TP)
1910	TAK861 NCTID: NCT06505031 Phase: Phase 3 Class: First-In-Class Modality: small molecule MoA: OX2R agonist Area: Nervous System Diseases Indication: Narcolepsy Type 1 Human Patients: 105 Sponsor: Takeda (TAK)	Date: 8 Feb 2025 Quarter: Q2'25 Batch 11 Technical: SUCCESS (statistically significant clinical benefit in MWT for NT1 compared with placebo featuring a positive dose-response relationship) Commercial: SUCCESS (commercially sufficient clinical benefit in MWT for NT1 non-inferior non-superior to ORX750/ALKS2680 in the best-case scenarios of optimal dosing regimens)	Readout: 14 Jul 2025 Lead Time: 156 days in advance Interpretation: TAK861 met all primary and secondary endpoints	Correct Prediction Conclusion: statistically significant and commercially sufficient Classification: True Positive (TP)
1692	BPL-003	Date: 24 Apr 2025	Readout: 1 Jul 2025	Correct Prediction

Validated Trial Evidence: Filtered Registry (122 of 604 trials)

Filtered view: **Neurology**

#	Clinical Trial	Certified Prediction	Validation	Result
	NCTID: NCT05870540 Phase: Phase 2 Class: First-In-Class Modality: small molecule MoA: intranasal 5-MeO-DMT Area: Mental Disorders Indication: Treatment Resistant Depression Human Patients: 196 Sponsor: atai Life Sciences (ATAI)	Quarter: Q3'25 Batch 2 Technical: SUCCESS (statistically significant clinical benefit in MADRS compared with placebo) Commercial: partial SUCCESS (commercially sufficient clinical benefit non-superior-non-inferior to GH001; moderately superior to esketamine + SNRI/SSRI; yet moderately inferior to CYB003)	Lead Time: 68 days in advance Interpretation: BPL003 (8mg) achieved statistically significant -12.1 points MADRS reduction at Day 29 (p = 0.0025); superior to esketamine that achieved placebo-adjusted -9 points MADRS reduction at Day 8 (see add'l link below); yet non-superior to -15.5 points MADRS reduction at Day 8 by GH001 (p<0.0001)	Conclusion: statistically significant and commercially sufficient (superior to esketamine) Classification: True Positive (TP)
1300	XPro1595 NCTID: NCT05318976 Phase: Phase 2 Class: First-In-Class Modality: recombinant protein biologic MoA: biologic soluble TNFalpha neutralizer Area: Nervous System Diseases Indication: Early Alzheimer's Disease With Biomarkers of Inflammation Human Patients: 208 Sponsor: Immune Bio (INMB)	Date: 21 Aug 2024 Quarter: Q1'25 Batch 11 Technical: partial SUCCESS (statistically maybe significant yet moderate clinical benefit in EMACC for neuroinflammation-biomarker-stratified mild AD patients) Commercial: partial SUCCESS (commercially maybe sufficient yet moderate clinical benefit in CDR/ADCS-ADL at most numerically superior to lecanemab for neuroinflammation-biomarker-stratified mild AD patients)	Readout: 30 Jun 2025 Lead Time: 313 days in advance Interpretation: XPro1595 did not meet the primary cognitive endpoint EMACC in the mITT population; yet a clinical benefit in EMACC (effect size 0.27) is observed for early Alzheimer's patients with two or more biomarkers of inflammation at baseline	Correct Prediction Conclusion: statistically insignificant and commercially probably insufficient Classification: True Negative (TN)
492	ARCT810 NCTID: NCT05526066 Phase: Phase 2 Class: First-In-Class Modality: mRNA medicine MoA: LNP-delivered OTC Area: Nervous System Diseases Indication: Ornithine Transcarbamylase Deficiency (OTCD) Human Patients: 8 Sponsor: Arcturus Therapeutics (ARCT)	Date: 14 Feb 2024 Quarter: Q4'24 Batch 8 Technical: SUCCESS (statistically significant clinical benefit) Commercial: SUCCESS (commercially sufficient clinical benefit)	Readout: 30 Jun 2025 Lead Time: 502 days in advance Interpretation: ARCT810 achieved -2.5 µmol/L/day glutamine levels and +14.7% RUF (p=0.026)	Correct Prediction Conclusion: statistically significant and commercially probably sufficient (no FDA approved drug for OTCD) Classification: True Positive (TP)
1875	ST920 NCTID: NCT04046224 Phase: Phase 1 Phase 2 Class: First-In-Class Modality: gene therapy MoA: AAV2/6-delivered GLA gene therapy Area: Nervous System Diseases Indication: Fabry Disease Human Patients: 33 Sponsor: Sangamo Therapeutics (SGMO)	Date: 19 Jan 2025 Quarter: Q2'25 Batch 3 Technical: FAILURE (statistically maybe significant yet very weak clinical benefit in eGFR compared with placebo) Commercial: FAILURE (commercially insufficient clinical benefit in eGFR inferior to pegunigalsidase alfa)	Readout: 24 Jun 2025 Lead Time: 156 days in advance Interpretation: ST920 achieved a positive yet statistically insignificant eGFR slope at week 52	Correct Prediction Conclusion: statistically maybe insignificant and commercially TBD Classification: True Negative (TN)
1438	COMP360 NCTID: NCT05624268 Phase: Phase 3 Class: First-In-Class Modality: small molecule MoA: 5HT2AR agonist Area: Mental Disorders Indication: treatment-resistant depression (TRD) Human Patients: 255 Sponsor: Compass Pathways (CMPS)	Date: 11 Feb 2025 Quarter: Q2'25 Batch 1 Technical: partial SUCCESS (statistically maybe significant yet weak clinical benefit) Commercial: FAILURE (commercially insufficient clinical benefit inferior to SoC and to 5-MeO-DMT)	Readout: 23 Jun 2025 Lead Time: 132 days in advance Interpretation: COMP360 achieved statistically significant -3.6 points MADRS reduction at Week 6 (p <0.001); inferior to esketamine that achieved placebo-adjusted -9 points MADRS reduction at Day 8 (see add'l link below)	Correct Prediction Conclusion: statistically significant and commercially insufficient Classification: True Negative (TN)
1905	VTX3232	Date: 8 Feb 2025	Readout: 17 Jun 2025	Correct Prediction

Validated Trial Evidence: Filtered Registry (122 of 604 trials)

Filtered view: **Neurology**

#	Clinical Trial	Certified Prediction	Validation	Result
	NCTID: NCT06556173 Phase: Phase 2 Class: First-In-Class Modality: small molecule MoA: CNS-penetrant NLRP3 inhibitor Area: Nervous System Diseases Indication: early Parkinson's Disease (PD) Human Patients: 11 Sponsor: Ventyx Biosciences (VTYX)	Quarter: Q2'25 Batch 9 Technical: FAILURE (statistically insignificant clinical benefit in MDS-UPDRS compared with placebo featuring moderate toxicity) Commercial: FAILURE (commercially insufficient clinical benefit in MDS-UPDRS compared with levodopa/tavapadon monotherapy)	Lead Time: 129 days in advance Interpretation: VTX3232's improvement in MDS-UPDRS Parts II and III combined score at week 6 was neither disclosed nor statistically significant; non-superior to -10.2 improvement in MDS-UPDRS total score achieved by Levodopa at week 26 (see add'l link below)	Conclusion: statistically insignificant and commercially insufficient Classification: True Negative (TN)
1262	Iluzanebart (VGL101) NCTID: NCT05677659 Phase: Phase 2 Class: First-In-Class Modality: monoclonal antibody MoA: TREM2 agonist Area: Nervous System Diseases Indication: Adult-Onset Leukoencephalopathy With Axonal Spheroids and Pigmented Glia Human Patients: 20 Sponsor: Vigil Neuroscience (VIGL)	Date: 12 May 2024 Quarter: Q1'25 Batch 5 Technical: partial SUCCESS (statistically maybe significant yet weak clinical benefit) Commercial: FAILURE (commercially insufficient clinical benefit)	Readout: 4 Jun 2025 Lead Time: 388 days in advance Interpretation: Iluzanebart failed to achieve statistically significant clinical benefit in primary efficacy endpoints	Correct Prediction Conclusion: statistically insignificant and commercially insufficient Classification: True Negative (TN)
1313	Govorestat (AT007) NCTID: NCT05397665 Phase: Phase 2 Phase 3 Class: First-In-Class Modality: small molecule MoA: Aldose Reductase inhibitor Area: Nervous System Diseases Indication: Hereditary Neuropathy Caused by SORD Deficiency Human Patients: 56 Sponsor: Applied Therapeutics (APLT)	Date: 2 Nov 2023 Quarter: 2H'23 Batch 27 Technical: FAILURE (statistically insignificant clinical benefit) Commercial: FAILURE (commercially insufficient clinical benefit)	Readout: 18 May 2025 Lead Time: 563 days in advance Interpretation: govorestat failed to deliver statistically significant 10MWRT improvement at month 12 compared with placebo	Correct Prediction Conclusion: statistically insignificant and commercially insufficient Classification: True Negative (TN)
557	PTC518 NCTID: NCT05358717 Phase: Phase 2 Class: First-In-Class Modality: small molecule MoA: HTT mRNA degradation Area: Nervous System Diseases Indication: Huntington's Disease Human Patients: 252 Sponsor: PTC Therapeutics (PTCT)	Date: 5 Mar 2024 Quarter: Q2'24 Batch 10 Technical: SUCCESS (statistically significant clinical benefit in lowering tHTT level) Commercial: FAILURE (commercially insufficient clinical benefit in UHDRS-TFC score)	Readout: 5 May 2025 Lead Time: 426 days in advance Interpretation: PTC518 failed to deliver statistically significant improvement in the efficacy endpoint cUHDRS at month 12	Correct Prediction Conclusion: statistically significant (mHTT) and commercially insufficient (UHDRS) Classification: True Negative (TN)
1591	REC-994 NCTID: NCT05085561 Phase: Phase 2 Class: First-In-Class Modality: small molecule MoA: superoxide dismutase small molecule mimetic Area: Nervous System Diseases Indication: Cerebral Cavernous Malformation (CCM) Human Patients: 62 Sponsor: Recursion Pharmaceuticals (RXRX)	Date: 11 May 2024 Quarter: Q3'24 Batch 5 Technical: partial SUCCESS (statistically maybe significant yet very weak clinical benefit with a negative dose-response relationship) Commercial: FAILURE (commercially insufficient clinical benefit with inferior-to-microsurgery/radiosurgery efficacy)	Readout: 5 May 2025 Lead Time: 359 days in advance Interpretation: REC994 failed to achieve statistically significant improvement in efficacy whose further development has thus been discontinued	Correct Prediction Conclusion: statistically insignificant and commercially insufficient Classification: True Negative (TN)

Validated Trial Evidence: Filtered Registry (122 of 604 trials)

Filtered view: **Neurology**

#	Clinical Trial	Certified Prediction	Validation	Result
1868	IMU-838 NCTID: NCT05054140 Phase: Phase 2 Class: First-In-Class Modality: small molecule MoA: DHODH inhibitor and NURR1 activator Area: Nervous System Diseases Indication: Progressive Multiple Sclerosis (PMS) Human Patients: 450 Sponsor: Immunic (IMUX)	Date: 14 Jan 2025 Quarter: Q2'25 Batch 2 Technical: FAILURE (statistically insignificant clinical benefit in EDSS/CDP compared with placebo) Commercial: FAILURE (commercially insufficient clinical benefit in EDSS/CDP inferior to tolebrutinib)	Readout: 30 Apr 2025 Lead Time: 106 days in advance Interpretation: IMU838 failed to achieve statistically significant EDSS improvement compared with placebo	Correct Prediction Conclusion: statistically insignificant and commercially insufficient Classification: True Negative (TN)
1958	Adjunctive KarXT NCTID: NCT05145413 Phase: Phase 3 Class: First-In-Class Modality: small molecule MoA: fixed-dose combination of xanomeline and trospium chloride KarXT Area: Nervous System Diseases Indication: treatment-resistant schizophrenia Human Patients: 396 Sponsor: Bristol-Myers Squibb (BMS)	Date: 2 Apr 2025 Quarter: Q2'25 Batch 14b Technical: SUCCESS (statistically significant additive clinical benefit in PANSS compared with placebo) Commercial: SUCCESS (commercially sufficient additive clinical benefit in PANSS moderately superior to lumateperone)	Readout: 22 Apr 2025 Lead Time: 20 days in advance Interpretation: KarXT + SoC failed to deliver additional clinical benefit in PANSS total score at week 6 compared with SoC alone	Missed Prediction Note: due to suboptimal disease modelling of schizophrenia not uncontrollable by standard therapies; whic... Conclusion: statistically insignificant and commercially insufficient Classification: False Positive (FP)
1725	Simufilam NCTID: NCT05026177 Phase: Phase 3 Class: First-In-Class Modality: small molecule MoA: FLNA inhibitor Area: Nervous System Diseases Indication: Mild-to-Moderate Alzheimer's Disease Human Patients: 1125 Sponsor: Cassava Sciences (SAVA)	Date: 6 Aug 2024 Quarter: - Batch - Technical: FAILURE (statistically maybe significant yet very weak clinical benefit in ADAS-COG12/ADCS-ADL23 against placebo) Commercial: FAILURE (commercially insufficient clinical benefit in ADAS-COG12/ADCS-ADL23 inferior to lecanemab)	Readout: 25 Mar 2025 Lead Time: 231 days in advance Interpretation: simufilam failed to meet primary efficacy endpoints ADAS-COG12 and ADCS-ADL at week 76	Correct Prediction Conclusion: statistically insignificant and commercially insufficient Classification: True Negative (TN)
1658	OAV101 (AVXS-101) NCTID: NCT05089656 Phase: Phase 3 Class: First-In-Class Modality: gene therapy MoA: rAAV9-mediated gene therapy with SMN1 transgene Area: Nervous System Diseases Indication: Type 2 Spinal Muscular Atrophy (SMA) Human Patients: 127 Sponsor: Novartis Pharmaceuticals (NVS)	Date: 1 Jul 2024 Quarter: Q3'24 Batch 14 Technical: partial SUCCESS (statistically maybe significant yet very weak clinical benefit in HFMSE at week 52) Commercial: FAILURE (commercially insufficient clinical benefit in HFMSE at week 52 inferior to nusinersen)	Readout: 19 Mar 2025 Lead Time: 261 days in advance Interpretation: OAV101 achieved 1.88 point placebo-adjusted improvement in HFMSE score (p=0.0074); inferior to nusinersen's 4.9 point placebo-adjusted improvement in HFMSE score (see add'l link below)	Correct Prediction Conclusion: statistically significant and commercially insufficient (1.88 point is below the 3-point minimal threshold of clinically meaningful improvement in HFMSE score (DOI -10.1007/s40120-024-00653-2)) Classification: True Negative (TN)
1506	Aticaprant NCTID: NCT05550532 Phase: Phase 3 Class: First-In-Class Modality: small molecule MoA: selective KOR antagonist Area: Mental Disorders Indication: Major Depressive Disorder (MDD) Human Patients: 444 Sponsor: Johnson & Johnson (JNJ)	Date: 18 Mar 2024 Quarter: Q2'24 Batch 12 Technical: partial SUCCESS (statistically maybe significant yet very weak additive clinical benefit) Commercial: FAILURE (commercially insufficient additive clinical benefit inferior to quetiapine or lumateperone)	Readout: 6 Mar 2025 Lead Time: 353 days in advance Interpretation: aticaprant discontinued further development due to insufficient efficacy	Correct Prediction Conclusion: statistically insignificant and commercially insufficient Classification: True Negative (TN)

Validated Trial Evidence: Filtered Registry (122 of 604 trials)

Filtered view: **Neurology**

#	Clinical Trial	Certified Prediction	Validation	Result
1430	Aticaprant NCTID: NCT05455684 Phase: Phase 3 Class: First-In-Class Modality: small molecule MoA: selective KOR antagonist Area: Mental Disorders Indication: Major Depressive Disorder (MDD) Human Patients: 513 Sponsor: Johnson & Johnson (JNJ)	Date: 19 Jan 2024 Quarter: Q2'24 Batch 12 Technical: partial SUCCESS (statistically maybe significant yet very weak additive clinical benefit) Commercial: FAILURE (commercially insufficient additive clinical benefit inferior to quetiapine or lumateperone)	Readout: 6 Mar 2025 Lead Time: 412 days in advance Interpretation: aticaprant discontinued further development due to insufficient efficacy	Correct Prediction Conclusion: statistically insignificant and commercially insufficient Classification: True Negative (TN)
1622	Ulixacaltamide NCTID: NCT06087276 Phase: Phase 3 Class: First-In-Class Modality: small molecule MoA: T-type calcium channels blocker Area: Nervous System Diseases Indication: Essential Tremor Human Patients: — Sponsor: Praxis Precision Medicines (PRAX)	Date: 15 May 2024 Quarter: Q3'24 Batch 12 Technical: partial SUCCESS (statistically maybe significant yet weak clinical benefit) Commercial: FAILURE (commercially insufficient clinical benefit)	Readout: 28 Feb 2025 Lead Time: 289 days in advance Interpretation: ulixacaltamide discontinued further development due to insufficient efficacy at pre-define interim analysis	Correct Prediction Conclusion: statistically insignificant and commercially insufficient Classification: True Negative (TN)
1663	AXS07 (meloxicam and rizatriptan) NCTID: NCT05550207 Phase: Phase 3 Class: Best-In-Class Modality: small molecule MoA: COX antagonist and 5HT1B/5HT1D agonist Area: Nervous System Diseases Indication: Migraine Human Patients: 100 Sponsor: Axsome Therapeutics (AXSM)	Date: 6 Aug 2024 Quarter: Q3'24 Batch 13 Technical: SUCCESS (statistically significant clinical benefit) Commercial: SUCCESS (commercially sufficient clinical benefit superior to meloxicam/rizatriptan monotherapy)	Readout: 24 Feb 2025 Lead Time: 202 days in advance Interpretation: AXS07 achieved >24-hour sustained pain relief for 31.2% more patients than after oral CGRPs (p<0.001) and statistically significant mTOQ4 total score superior to oral CGRP inhibitors (p<0.001)	Correct Prediction Conclusion: statistically significant and commercially sufficient Classification: True Positive (TP)
1877	SPN820 (NV-5138) NCTID: NCT05066672 Phase: Phase 2 Class: First-In-Class Modality: small molecule MoA: mTORC1 activator Area: Mental Disorders Indication: treatment-resistant depression Human Patients: 400 Sponsor: Supernus Pharmaceuticals (SUPN)	Date: 19 Jan 2025 Quarter: Q2'25 Batch 4 Technical: FAILURE (statistically insignificant clinical benefit in MADRS compared with placebo) Commercial: FAILURE (commercially insufficient clinical benefit in MADRS inferior to lumateperone)	Readout: 18 Feb 2025 Lead Time: 30 days in advance Interpretation: SPN820 failed to achieve statistical significance in MADRS total score	Correct Prediction Conclusion: statistically insignificant and commercially insufficient Classification: True Negative (TN)
1841	ALTO-300 NCTID: NCT05922878 Phase: Phase 2 Class: First-In-Class Modality: small molecule MoA: MT1/MIT2 agonist and 5HT2C antagonist Area: Mental Disorders Indication: Major Depressive Disorder Human Patients: 200 Sponsor: Alto Neuroscience (ANRO)	Date: 9 Nov 2024 Quarter: Q1'25 Batch 9 Technical: partial SUCCESS (statistically maybe significant yet weak (additive) clinical benefit in MADRS) Commercial: FAILURE (commercially insufficient additive clinical benefit in MADRS inferior to lumateperone)	Readout: 12 Feb 2025 Lead Time: 95 days in advance Interpretation: ALTO-300 passed futility test yet failed to achieve sufficient efficacy at interim analysis; an increase of 50 biomarker positive patients are needed in the final analysis whose topline results are expected in mid-2026	Correct Prediction Conclusion: statistically maybe significant (yet weak efficacy) and commercially maybe insufficient Classification: True Negative (TN)
1265	GH001	Date: 5 Jun 2024	Readout: 3 Feb 2025	Correct Prediction

Validated Trial Evidence: Filtered Registry (122 of 604 trials)

Filtered view: **Neurology**

#	Clinical Trial	Certified Prediction	Validation	Result
	NCTID: NCT05800860 Phase: Phase 2 Class: First-In-Class Modality: small molecule MoA: psychedelic 5-MeO-DMT Area: Mental Disorders Indication: treatment-resistant depression Human Patients: 80 Sponsor: GH Research (GHR)	Quarter: Q3'24 Batch 14 Technical: partial SUCCESS (statistically significant yet moderate clinical benefit) Commercial: partial SUCCESS (commercially maybe sufficient yet moderate clinical benefit)	Lead Time: 243 days in advance Interpretation: GH001 achieved statistically significant placebo-adjusted -15.5 points MADRS reduction at Day 8 ($p < 0.0001$); superior to esketamine that achieved placebo-adjusted -9 points MADRS reduction at Day 8 (DOI-10.1001/jamapsychiatry.2017.3739)	Conclusion: statistically significant and commercially sufficient Classification: True Positive (TP)
1636	Secukinumab NCTID: NCT05722522 Phase: Phase 3 Class: First-In-Class Modality: monoclonal antibody MoA: anti-IL17A inhibitor Area: Nervous System Diseases Indication: Rotator Cuff Tendinopathy Human Patients: 33 Sponsor: Novartis (NVS)	Date: 1 Jul 2024 Quarter: Q3'24 Batch 14 Technical: FAILURE (statistically insignificant additive clinical benefit in WORC-PSD as an adjunctive therapy to SoC) Commercial: FAILURE (commercially insufficient additive clinical benefit in WORC-PSD as an adjunctive therapy to SoC)	Readout: 31 Jan 2025 Lead Time: 214 days in advance Interpretation: secukinumab hasn't met the efficacy threshold and further development discontinued without disclosure of data	Correct Prediction Conclusion: statistically probably insignificant and commercially insufficient Classification: True Negative (TN)
1264	GH001 NCTID: NCT05804708 Phase: Phase 2 Class: First-In-Class Modality: small molecule MoA: psychedelic 5-MeO-DMT Area: Mental Disorders Indication: Postpartum Depression Human Patients: 10 Sponsor: GH Research (GHR)	Date: 5 Jun 2024 Quarter: Q3'24 Batch 14 Technical: partial SUCCESS (statistically significant yet moderate clinical benefit) Commercial: partial SUCCESS (commercially maybe sufficient yet moderate clinical benefit)	Readout: 10 Jan 2025 Lead Time: 219 days in advance Interpretation: GH001 achieved statistically significant of -35.4 points MADRS reduction at Day 8 ($p < 0.0001$); placebo data not disclosed)	Correct Prediction Conclusion: statistically significant and commercially maybe sufficient (pending placebo data disclosure to evaluate efficacy competitiveness) Classification: True Positive (TP)
1263	GH001 NCTID: NCT05839509 Phase: Phase 2 Class: First-In-Class Modality: small molecule MoA: psychedelic 5-MeO-DMT Area: Mental Disorders Indication: Bipolar II Disorder Human Patients: 6 Sponsor: GH Research (GHR)	Date: 5 Jun 2024 Quarter: Q3'24 Batch 14 Technical: partial SUCCESS (statistically significant yet moderate clinical benefit) Commercial: partial SUCCESS (commercially maybe sufficient yet moderate clinical benefit)	Readout: 10 Jan 2025 Lead Time: 219 days in advance Interpretation: GH001 achieved statistically significant -16.8 points MADRS reduction at Day 8 ($p = 0.0099$); superior to -8 points MADRS reduction at Day 8 achieved by quetiapine; though absolute MADRS reduction values are not directly comparable due to varying placebo effects especially for psychiatric disorders	Correct Prediction Conclusion: statistically significant and commercially maybe sufficient (pending placebo data disclosure to evaluate efficacy competitiveness) Classification: True Positive (TP)
1487	DNL343 NCTID: NCT05842941 Phase: Phase 2 Phase 3 Class: First-In-Class Modality: small molecule MoA: transferrin-receptor-mediated BBB-crossing EIF2beta activator Area: Nervous System Diseases Indication: Amyotrophic Lateral Sclerosis Human Patients: 249 Sponsor: Denali Therapeutics / AbbVie (DNL / ABBV)	Date: 27 Feb 2024 Quarter: Q4'24 Batch 2 Technical: FAILURE (statistically insignificant clinical benefit) Commercial: FAILURE (commercially insufficient clinical benefit)	Readout: 6 Jan 2025 Lead Time: 314 days in advance Interpretation: DNL343 failed to achieve its primary efficacy endpoint	Correct Prediction Conclusion: statistically insignificant and commercially insufficient Classification: True Negative (TN)
1576	Navacaprant (NMRA-335140) NCTID: NCT06029426 Phase: Phase 3 Class: First-In-Class Modality: small molecule	Date: 14 Aug 2024 Quarter: Q4'24 Batch 2 Technical: FAILURE (statistically maybe significant yet very weak clinical benefit)	Readout: 2 Jan 2025 Lead Time: 141 days in advance Interpretation: navacaprant failed to meet the primary efficacy endpoint MADRS total score compared to	Correct Prediction Conclusion: statistically insignificant and commercially insufficient

Validated Trial Evidence: Filtered Registry (122 of 604 trials)

Filtered view: **Neurology**

#	Clinical Trial	Certified Prediction	Validation	Result
	MoA: KOR antagonist Area: Mental Disorders Indication: Major Depressive Disorder Human Patients: 332 Sponsor: Neumora Therapeutics (NMRA)	Commercial: FAILURE (commercially insufficient clinical benefit non-superior non-inferior to aticaprant; yet inferior to lumateperone)	placebo; non-superior to aticaprant that achieved borderline statistical significance in MADRS total score in phase 2 trial (p=0.044)	Classification: True Negative (TN)
898	AXS-05 NCTID: NCT05557409 Phase: Phase 3 Class: First-In-Class Modality: small molecule MoA: NMDAR antagonist & sigma-1 receptor agonist Area: Nervous System Diseases Indication: Alzheimer's Disease Agitation Human Patients: 350 Sponsor: Axsome Therapeutics (AXSM)	Date: 6 Jul 2024 Quarter: Q3'24 Batch 13 Technical: SUCCESS (statistically significant clinical benefit in CMAI) Commercial: SUCCESS (commercially sufficient clinical benefit in CMAI definitely non-inferior to and maybe superior to brexpiprazole)	Readout: 30 Dec 2024 Lead Time: 177 days in advance Interpretation: AXS05 failed to meet any primary and secondary efficacy endpoints	Missed Prediction Note: due to suboptimal drug MoA modelling that has been permanently improved Conclusion: statistically insignificant and commercially insufficient Classification: False Positive (FP)
1854	Suzetrigine (VX-548) NCTID: NCT06176196 Phase: Phase 2 Class: First-In-Class Modality: small molecule MoA: oral Nav1.8/SCN10A inhibitor Area: Nervous System Diseases Indication: Painful Lumbosacral Radiculopathy Human Patients: 218 Sponsor: Vertex Pharmaceuticals (VRTX)	Date: 7 Dec 2024 Quarter: Q1'25 Batch 13 Technical: partial SUCCESS (statistically maybe significant yet weak clinical benefit in NPRS at week 12 against placebo) partial FAILURE (statistically insignificant clinical benefit in DSIS at week 12 against placebo) Commercial: FAILURE (commercially insufficient clinical benefit in NPRS/DSIS/TEAE non-superior to NSAIDs and inferior to epidural steroid injection)	Readout: 19 Dec 2024 Lead Time: 12 days in advance Interpretation: suzetrigine achieved non-superior-non-inferior-to-placebo efficacy in NPRS at week 12 (-2.02 vs -1.98 without disclosing p-value); DSIS data not disclosed	Correct Prediction Conclusion: statistically insignificant (NPRS) and commercially insufficient Classification: True Negative (TN)
1368	Prasinezumab NCTID: NCT04777331 Phase: Phase 2 Class: First-In-Class Modality: monoclonal antibody MoA: anti-alpha-synuclein Area: Nervous System Diseases Indication: Early Parkinson's Disease Human Patients: 586 Sponsor: Prothena / Roche (PRTA/ RHHBY)	Date: 30 Nov 2023 Quarter: Q3'24 Batch 17 Technical: FAILURE (commercially insufficient clinical benefit) Commercial: FAILURE (commercially insufficient clinical benefit)	Readout: 19 Dec 2024 Lead Time: 385 days in advance Interpretation: prasinezumab failed to meet any primary and secondary efficacy endpoints	Correct Prediction Conclusion: statistically insignificant and commercially insufficient Classification: True Negative (TN)
1619	CT1812 NCTID: NCT05225415 Phase: Phase 2 Class: First-In-Class Modality: small molecule MoA: allosteric sigma-2 receptor antagonist Area: Nervous System Diseases Indication: Dementia With Lewy Bodies Human Patients: 130 Sponsor: Cognition Therapeutics (CGTX)	Date: 15 May 2024 Quarter: Q3'24 Batch 10 Technical: partial SUCCESS (statistically maybe significant yet very weak clinical benefit despite tolerable toxicity) Commercial: FAILURE (commercially insufficient clinical benefit)	Readout: 18 Dec 2024 Lead Time: 217 days in advance Interpretation: CT1812 met the safety primary endpoint with trends only of cognitive/functional improvements	Correct Prediction Conclusion: statistically significant (safety) and commercially probably insufficient (efficacy) Classification: True Negative (TN)
1567	minzasolmin (UCB0599) NCTID: NCT04658186 Phase: Phase 2 Class: First-In-Class	Date: 26 Apr 2024 Quarter: Q4'24 Batch 7 Technical: partial SUCCESS (statistically maybe significant yet	Readout: 16 Dec 2024 Lead Time: 234 days in advance Interpretation: minzasolmin failed to meet any primary and secondary	Correct Prediction Conclusion: statistically insignificant and commercially insufficient

Validated Trial Evidence: Filtered Registry (122 of 604 trials)

Filtered view: **Neurology**

#	Clinical Trial	Certified Prediction	Validation	Result
	Modality: small molecule MoA: ASYN-misfolding inhibitor Area: Nervous System Diseases Indication: Early-stage Parkinson's Disease Human Patients: 496 Sponsor: UCB Biopharma (UCB)	very weak clinical benefit in MDS-UPDRS) Commercial: FAILURE (commercially insufficient clinical benefit with inferior-to-levodopa efficacy in MDS-UPDRS)	efficacy endpoints	Classification: True Negative (TN)
1409	CTI-1601 NCTID: NCT05579691 Phase: Phase 2 Class: First-In-Class Modality: fusion protein biologic MoA: TAT-delivered FXN recombinant fusion protein Area: Nervous System Diseases Indication: Friedreich Ataxia Human Patients: 28 Sponsor: Larimar Therapeutics (LRMR)	Date: 7 Jan 2024 Quarter: Q1'24 Batch 14 Technical: partial SUCCESS (statistically significant yet weak clinical benefit due to TAT delivery) Commercial: FAILURE (commercially insufficient clinical benefit inferior to omaveloxolone)	Readout: 16 Dec 2024 Lead Time: 344 days in advance Interpretation: nomlabofusp achieved early trends yet very weak improvements in mFARS	Correct Prediction Conclusion: statistically maybe significant yet weak (mFARS) and commercially probably insufficient Classification: True Negative (TN)
551	Dazucorilant NCTID: NCT05407324 Phase: Phase 2 Class: First-In-Class Modality: small molecule MoA: lipid selective glucocorticoid receptor antagonist Area: Nervous System Diseases Indication: Amyotrophic Lateral Sclerosis (ALS) Human Patients: 249 Sponsor: Corcept Therapeutics (CORT)	Date: 14 Apr 2024 Quarter: Q4'24 Batch 9 Technical: FAILURE (statistically insignificant clinical benefit) Commercial: FAILURE (commercially insufficient clinical benefit)	Readout: 11 Dec 2024 Lead Time: 241 days in advance Interpretation: dazucorilant failed to achieve its primary efficacy endpoint	Correct Prediction Conclusion: statistically insignificant and commercially insufficient Classification: True Negative (TN)
1762	Neflamapimod NCTID: NCT05869669 Phase: Phase 2 Class: First-In-Class Modality: small molecule MoA: p38alpha inhibitor Area: Nervous System Diseases Indication: Dementia With Lewy Bodies Human Patients: 160 Sponsor: CervoMed (CRVO)	Date: 19 Aug 2024 Quarter: Q4'24 Batch 12 Technical: partial FAILURE (statistically maybe significant yet very weak additive clinical benefit in CDR-SB) Commercial: FAILURE (commercially insufficient additive clinical benefit in MSD-UPDRS3)	Readout: 10 Dec 2024 Lead Time: 113 days in advance Interpretation: neflamapimod failed to meet the primary efficacy endpoint CDR-SB; no data disclosed for MSD-UPDRS3	Correct Prediction Conclusion: statistically insignificant and commercially insufficient Classification: True Negative (TN)
1456	Tavapadon NCTID: NCT04223193 Phase: Phase 3 Class: First-In-Class Modality: small molecule MoA: a selective D1R/D5R partial agonist Area: Nervous System Diseases Indication: early Parkinson's Disease Human Patients: 304 Sponsor: AbbVie (ABBV)	Date: 14 Feb 2024 Quarter: Q3'24 Batch 8 Technical: SUCCESS (statistically significant clinical benefit) Commercial: partial SUCCESS (commercially sufficient additive clinical benefit superior to levodopa for patients who receive tavapadon + MAOB inhibitor combotherapy) partial FAILURE (commercially insufficient clinical benefit non-superior to levodopa for patients who receive tavapadon monotherapy)	Readout: 9 Dec 2024 Lead Time: 299 days in advance Interpretation: tavapadon monotherapy achieved -9.1 improvement (p< 0.0001) in MDS-UPDRS Parts II and III combined score at week 26; non-superior to -10.2 improvement in MDS-UPDRS total score achieved by Levodopa at week 26 (no data announced for tavapadon + MAOA combotherapy)	Correct Prediction Conclusion: statistically significant and commercially insufficient (as monotherapy) Classification: True Negative (TN)
1679	REL-1017 NCTID: NCT06011577 Phase: Phase 3 Class: First-In-Class Modality: small molecule MoA: GLUN1-GLUN2D	Date: 14 Jul 2024 Quarter: Q3'24 Batch 17 Technical: FAILURE (statistically insufficient additive clinical benefit) Commercial: FAILURE (commercially	Readout: 9 Dec 2024 Lead Time: 148 days in advance Interpretation: REL-1017 will be discontinued for lack of efficacy	Correct Prediction Conclusion: statistically insignificant and commercially insufficient Classification: True Negative (TN)

Validated Trial Evidence: Filtered Registry (122 of 604 trials)

Filtered view: **Neurology**

#	Clinical Trial	Certified Prediction	Validation	Result
	antagonist Area: Mental Disorders Indication: major depressive disorder (MDD) Human Patients: 340 Sponsor: Relmada Therapeutic (RLMD)	insufficient additive clinical benefit)		
383	REL-1017 NCTID: NCT04855747 Phase: Phase 3 Class: First-In-Class Modality: small molecule MoA: GLUN1-GLUN2D antagonist Area: Mental Disorders Indication: Major Depressive Disorder Depression (MDD) Human Patients: 340 Sponsor: Relmada Therapeutics (RLMD)	Date: 14 Jul 2024 Quarter: Q3'24 Batch 17 Technical: FAILURE (statistically insignificant additive clinical benefit) Commercial: FAILURE (commercially insufficient additive clinical benefit)	Readout: 4 Dec 2024 Lead Time: 143 days in advance Interpretation: REL-1017 is found unlikely to meet the primary efficacy endpoint of adding significant clinical benefit in MADRS10 score	Correct Prediction Conclusion: statistically insignificant and commercially insufficient Classification: True Negative (TN)
568	PTC857 NCTID: NCT05349721 Phase: Phase 2 Class: First-In-Class Modality: small molecule MoA: ALOX15 inhibitor Area: Nervous System Diseases Indication: Amyotrophic Lateral Sclerosis (ALS) Human Patients: 307 Sponsor: PTC Therapeutics (PTCT)	Date: 6 Aug 2024 Quarter: Q4'24 Batch 1 Technical: FAILURE (statistically insignificant additive clinical benefit in ALSFRS-R) Commercial: FAILURE (commercially insufficient additive clinical benefit in ALSFRS-R)	Readout: 26 Nov 2024 Lead Time: 112 days in advance Interpretation: PTC857 failed to achieve any primary or secondary efficacy endpoints	Correct Prediction Conclusion: statistically insignificant and commercially insufficient Classification: True Negative (TN)
1621	Taldefgrobep alfa NCTID: NCT05337553 Phase: Phase 3 Class: First-In-Class Modality: recombinant protein biologic MoA: selective ACVR2B antagonist Area: Nervous System Diseases Indication: Spinal Muscular Atrophy (SMA) Human Patients: 269 Sponsor: Biohaven (BHAVN)	Date: 15 May 2024 Quarter: Q3'24 Batch 11 Technical: partial SUCCESS (statistically maybe significant yet very weak clinical benefit) Commercial: FAILURE (commercially insufficient additive clinical benefit in MFM32)	Readout: 25 Nov 2024 Lead Time: 194 days in advance Interpretation: taldefgrobep alfa + SoC failed to achieved the MFM32 primary efficacy endpoint at week 48 compared with SoC alone	Correct Prediction Conclusion: statistically insignificant and commercially insufficient Classification: True Negative (TN)
580	AL002 NCTID: NCT04592874 Phase: Phase 2 Class: First-In-Class Modality: monoclonal antibody MoA: anti-TREM2 mAb activator Area: Nervous System Diseases Indication: Alzheimer's Disease Human Patients: 381 Sponsor: Alector / AbbVie (ALEC/ABBV)	Date: 6 Aug 2024 Quarter: Q4'24 Batch 3 Technical: FAILURE (statistically insignificant clinical benefit) Commercial: FAILURE (commercially insufficient clinical benefit inferior to lecanemab)	Readout: 25 Nov 2024 Lead Time: 111 days in advance Interpretation: AL002 failed to meet primary efficacy endpoints CDR-SB	Correct Prediction Conclusion: statistically insignificant and commercially insufficient Classification: True Negative (TN)
1724	Simufilam NCTID: NCT04994483 Phase: Phase 3 Class: First-In-Class Modality: small molecule MoA: misfolded FLNA inhibitor Area: Nervous System Diseases	Date: 6 Aug 2024 Quarter: Q4'24 Batch 4 Technical: FAILURE (statistically maybe significant yet very weak clinical benefit in ADAS-COG12/ADCS-ADL23 against placebo)	Readout: 25 Nov 2024 Lead Time: 111 days in advance Interpretation: simufilam failed to meet primary efficacy endpoints ADAS-COG12 and ADCS-ADL at week 52	Correct Prediction Conclusion: statistically insignificant and commercially insufficient Classification: True Negative (TN)

Validated Trial Evidence: Filtered Registry (122 of 604 trials)

Filtered view: **Neurology**

#	Clinical Trial	Certified Prediction	Validation	Result
	Indication: Alzheimer's Disease Human Patients: 804 Sponsor: Cassava Sciences (SAVA)	Commercial: FAILURE (commercially insufficient clinical benefit in ADAS-COG12/ADCS-ADL23 inferior to lecanemab)		
1383	SAGE-718 (dalzanemdor) NCTID: NCT05107128 Phase: Phase 2 Class: First-In-Class Modality: small molecule MoA: NMDAR PAM Area: Nervous System Diseases Indication: Huntington's Disease Human Patients: 189 Sponsor: Sage Therapeutics (SAGE)	Date: 20 Apr 2024 Quarter: Q3'24 Batch 1 Technical: FAILURE (statistically insignificant clinical benefit) Commercial: FAILURE (commercially insufficient clinical benefit)	Readout: 20 Nov 2024 Lead Time: 214 days in advance Interpretation: dalzanemdor failed to meet the primary efficacy endpoint	Correct Prediction Conclusion: statistically insignificant and commercially insufficient Classification: True Negative (TN)
1709	NGN101 NCTID: NCT05228145 Phase: Phase 1 Phase 2 Class: First-In-Class Modality: gene therapy MoA: AAV9-delivered CLN5 trans gene Area: Nervous System Diseases Indication: CLN5 Batten Disease Human Patients: 6 Sponsor: Neurogene (NGNE)	Date: 31 Jul 2024 Quarter: Q4'24 Batch 10 Technical: partial SUCCESS (statistically maybe significant yet weak clinical benefit in UBDRS or visual acuity) Commercial: FAILURE (commercially insufficient clinical benefit in UBDRS or visual acuity)	Readout: 18 Nov 2024 Lead Time: 110 days in advance Interpretation: NGN101's further development has been discontinued	Correct Prediction Conclusion: statistically probably insignificant and commercially probably insufficient Classification: True Negative (TN)
1710	NGN-401 NCTID: NCT05898620 Phase: Phase 1 Phase 2 Class: First-In-Class Modality: gene therapy MoA: AAV9-delivered miRNA-regulated MECP2 gene therapy Area: Nervous System Diseases Indication: Rett Syndrome Human Patients: 16 Sponsor: Neurogene (NGNE)	Date: 31 Jul 2024 Quarter: Q4'24 Batch 10 Technical: partial SUCCESS (statistically maybe significant yet weak clinical benefit) Commercial: FAILURE (commercially insufficient clinical benefit)	Readout: 11 Nov 2024 Lead Time: 103 days in advance Interpretation: low-dose NGN401 achieved 2-score CGI-I from baseline; high-dose NGN401 achieved 33.3% SAE (1/3)	Correct Prediction Conclusion: statistically probably significant (yet weak overall clinical benefit considering both efficacy and toxicity) and commercially probably insufficient Classification: True Negative (TN)
1457	Emraclidine (CVL-231) NCTID: NCT05227703 Phase: Phase 2 Class: First-In-Class Modality: small molecule MoA: a selective CNS-penetrant CHRM4 PAM Area: Nervous System Diseases Indication: schizophrenia Human Patients: 372 Sponsor: AbbVie (ABBV)	Date: 14 Feb 2024 Quarter: Q3'24 Batch 8 Technical: FAILURE (statistically insignificant clinical benefit) Commercial: FAILURE (commercially insufficient clinical benefit)	Readout: 11 Nov 2024 Lead Time: 271 days in advance Interpretation: emraclidine failed to achieved the primary efficacy endpoint PANSS at week 6	Correct Prediction Conclusion: statistically insignificant and commercially insufficient Classification: True Negative (TN)
1458	Emraclidine (CVL-231) NCTID: NCT05227690 Phase: Phase 2 Class: First-In-Class Modality: small molecule MoA: a selective CNS-penetrant CHRM4 PAM Area: Nervous System Diseases Indication: schizophrenia Human Patients: 372 Sponsor: AbbVie (ABBV)	Date: 14 Feb 2024 Quarter: Q3'24 Batch 8 Technical: FAILURE (statistically insignificant clinical benefit) Commercial: FAILURE (commercially insufficient clinical benefit)	Readout: 11 Nov 2024 Lead Time: 271 days in advance Interpretation: emraclidine failed to achieved the primary efficacy endpoint PANSS at week 6	Correct Prediction Conclusion: statistically insignificant and commercially insufficient Classification: True Negative (TN)

Validated Trial Evidence: Filtered Registry (122 of 604 trials)

Filtered view: **Neurology**

#	Clinical Trial	Certified Prediction	Validation	Result
357	Lumateperone NCTID: NCT04959032 Phase: Phase 3 Class: First-In-Class Modality: small molecule MoA: 5HT2AR antagonist Area: Nervous System Diseases Indication: Schizophrenia relapse prevention Human Patients: 228 Sponsor: Intra-Cellular Therapies (ITCI)	Date: 23 Sep 2022 Quarter: - Batch - Technical: SUCCESS (statistically significant clinical benefit) Commercial: SUCCESS (commercially sufficient clinical benefit)	Readout: 5 Nov 2024 Lead Time: 774 days in advance Interpretation: Lumateperone achieved a 22.2% placebo-adjusted lower relapse of schizophrenia (16.4% vs 38.6%; p=0.0002)	Correct Prediction Conclusion: statistically significant and commercially sufficient Classification: True Positive (TP)
1569	Bepranemab NCTID: NCT04867616 Phase: Phase 2 Class: First-In-Class Modality: monoclonal antibody MoA: anti-tau mAb inhibitor Area: Nervous System Diseases Indication: Alzheimer's Disease Human Patients: 466 Sponsor: UCB Biopharma (UCB)	Date: 26 Apr 2024 Quarter: Q3'24 Batch 3 Technical: partial SUCCESS (statistically maybe significant yet very weak clinical benefit in CDR-SB for early AD patients) Commercial: FAILURE (commercially insufficient clinical benefit with inferior-to-donanemab/lecanemab in CDR-SB for early AD patients)	Readout: 31 Oct 2024 Lead Time: 188 days in advance Interpretation: Bepranemab did not meet the primary efficacy endpoint CDR-SB.	Correct Prediction Conclusion: statistically insignificant and commercially insufficient Classification: True Negative (TN)
1788	Trontinemab (RO7126209) NCTID: NCT04639050 Phase: Phase 1 Phase 2 Class: Best-In-Class Modality: bispecific antibody MoA: bispecific anti- α beta and anti-TfR1 antibody Area: Nervous System Diseases Indication: Mild to Moderate Alzheimer's Disease Human Patients: 285 Sponsor: Roche Group (RHHBY)	Date: 15 Sep 2024 Quarter: Q4'24 Batch 17b Technical: SUCCESS (statistically significant clinical benefit in brain amyloid load reduction) Commercial: FAILURE (commercially insufficient clinical benefit in CDR-SB/ADAS-Cog13 inferior to lecanemab)	Readout: 30 Oct 2024 Lead Time: 45 days in advance Interpretation: trontinemab achieved strong effect in amyloid load reduction at week 28 (-107 CL at 36 mg/kg vs -3 CL in placebo); no data available for CDR-SB/ADAS-Cog13	Correct Prediction Conclusion: statistically significant (in amyloid beta reduction) and commercially TBD (wait for CDR-SB/ADAS-Cog13 data) Classification: True Positive (TP)
1696	aldesleukin NCTID: NCT06096090 Phase: Phase 2 Class: First-In-Class Modality: peptide MoA: low-dose recombinant IL2 Area: Nervous System Diseases Indication: Alzheimer's Disease Human Patients: 40 Sponsor: Coya Therapeutics (COYA)	Date: 24 Jul 2024 Quarter: Q3'24 Batch 19 Technical: FAILURE (statistically insignificant clinical benefit in ADAS-Cog13 or CDR-SB) Commercial: FAILURE (commercially insufficient clinical benefit in ADAS-Cog13 or CDR-SB)	Readout: 29 Oct 2024 Lead Time: 97 days in advance Interpretation: aldesleukin failed to meet the exploratory efficacy endpoints ADAS-Cog14 or CDR-SOB	Correct Prediction Conclusion: statistically insignificant and commercially insufficient Classification: True Negative (TN)
1202	Ganaxalone NCTID: NCT05323734 Phase: Phase 3 Class: First-In-Class Modality: small molecule MoA: 3beta-methylated synthetic analog of allopregnanolone Area: Nervous System Diseases Indication: Tuberous Sclerosis Complex related Epilepsy Human Patients: 128 Sponsor: Marinus Pharmaceuticals (MRNS)	Date: 14 Jul 2024 Quarter: Q3'24 Batch 16 Technical: partial SUCCESS (statistically maybe significant yet very weak additive clinical benefit in seizure frequency) Commercial: FAILURE (commercially insufficient additive clinical benefit)	Readout: 24 Oct 2024 Lead Time: 102 days in advance Interpretation: ganaxalone did not meet the primary efficacy endpoint of seizure frequency despite numerical improvement (p=0.09)	Correct Prediction Conclusion: statistically insignificant and commercially insufficient Classification: True Negative (TN)
1718	ALTO-100 NCTID: NCT05712187 Phase: Phase 2 Class: First-In-Class	Date: 6 Aug 2024 Quarter: Q4'24 Batch 2 Technical: FAILURE (statistically maybe significant yet very weak)	Readout: 22 Oct 2024 Lead Time: 77 days in advance Interpretation: ALTO100 did not meet the primary efficacy endpoint MADRS	Correct Prediction Conclusion: statistically insignificant and commercially insufficient

Validated Trial Evidence: Filtered Registry (122 of 604 trials)

Filtered view: **Neurology**

#	Clinical Trial	Certified Prediction	Validation	Result
	Modality: small molecule MoA: BDNF activator Area: Mental Disorders Indication: Major Depressive Disorder Human Patients: 301 Sponsor: Alto Neuroscience (ANRO)	(additive) clinical benefit in MADRS) Commercial: FAILURE (commercially insufficient (additive) clinical benefit in MADRS inferior to lumateperone)		Classification: True Negative (TN)
1374	AMX0035 NCTID: NCT05676034 Phase: Phase 2 Class: First-In-Class Modality: small molecule MoA: sodium phenylbutyrate + taurursodiol Area: Nervous System Diseases / Genetic Diseases Indication: Wolfram Syndrome Human Patients: 12 Sponsor: Amylyx Pharmaceuticals (AMLX)	Date: 13 Dec 2023 Quarter: Q1'24 Batch 10 Technical: SUCCESS (statistically significant clinical benefit) Commercial: SUCCESS (commercially sufficient clinical benefit)	Readout: 17 Oct 2024 Lead Time: 309 days in advance Interpretation: AMX0035 achieved +36.7 min*ng/mL C-Peptide Response as the primary efficacy endpoint; and phase 2a safe and 100% participants meeting prespecified responding criteria (24 week -0.26% HbA1c; +7.6% target glucose range; +0.05 vision acuity; 62.5% CGI-C and 75% PGIC).	Correct Prediction Conclusion: statistically probably significant and commercially probably sufficient Classification: True Positive (TP)
477	VK0214 NCTID: NCT04973657 Phase: Phase 1 Class: First-In-Class Modality: small molecule MoA: TRbeta agonist Area: Nervous System Diseases Indication: Adrenomyeloneuropathy Form (AMN) of X-linked Adrenoleukodystrophy (X-ALD) Human Patients: 36 Sponsor: Viking Therapeutics (VKTx)	Date: 12 Oct 2022 Quarter: - Batch - Technical: SUCCESS (statistically significant clinical benefit) Commercial: SUCCESS (commercially sufficient clinical benefit)	Readout: 9 Oct 2024 Lead Time: 728 days in advance Interpretation: VK0214 achieved 37.9% placebo-adjusted VLCFA reduction at day 28 (p = 0.0105) and 24.9% placebo-adjusted LDL-C reduction at day 28 (p<0.0001)	Correct Prediction Conclusion: statistically significant and commercially sufficient (no FDA approved drug for X-ALD) Classification: True Positive (TP)
1382	SAGE-718 (dalzanemdor) NCTID: NCT05619692 Phase: Phase 2 Class: First-In-Class Modality: small molecule MoA: NMDAR PAM Area: Nervous System Diseases Indication: Alzheimer's Disease Human Patients: 174 Sponsor: Sage Therapeutics (SAGE)	Date: 20 Apr 2024 Quarter: Q3'24 Batch 1 Technical: FAILURE (statistically insignificant clinical benefit) Commercial: FAILURE (commercially insufficient clinical benefit)	Readout: 8 Oct 2024 Lead Time: 171 days in advance Interpretation: dalzanemdor failed to meet the primary efficacy endpoint.	Correct Prediction Conclusion: statistically insignificant and commercially insufficient Classification: True Negative (TN)
528	Apitegromab NCTID: NCT05156320 Phase: Phase 3 Class: First-In-Class Modality: monoclonal antibody MoA: latent myostatin mAb inhibitor Area: Nervous System Diseases Indication: Spinal Muscular Atrophy (SMA) Human Patients: 188 Sponsor: Scholar Rock Holding (SRRK)	Date: 6 Aug 2024 Quarter: Q4'24 Batch 3 Technical: FAILURE (statistically maybe significant yet very weak additive clinical benefit in HFMSE total score) Commercial: FAILURE (commercially insufficient additive clinical benefit in HFMSE total score non-superior to nusinersen/risdiplam monotherapy)	Readout: 7 Oct 2024 Lead Time: 62 days in advance Interpretation: apitegromab achieved 1.8 point HFMSE score difference at week 52 for the combined 10mg/kg and 20mg/kg populations (p=0.0192) yet only 1.4 point HFMSE score difference at week 52 for the 20mg/kg population (p=0.1149).	Correct Prediction Conclusion: statistically significant (yet weak benefit with negative dose-response relationship) and commercially insufficient (1.8 point is below the 3-point minimal threshold of clinically meaningful improvement in HFMSE score doi.org/10.1007/s40120-024-00653-2) Classification: True Negative (TN)
1455	tavapadon NCTID: NCT04201093 Phase: Phase 3 Class: First-In-Class	Date: 14 Feb 2024 Quarter: Q3'24 Batch 8 Technical: SUCCESS (statistically significant clinical benefit)	Readout: 26 Sep 2024 Lead Time: 225 days in advance Interpretation: tavapadon achieved -11.5 to -12 improvement (p< 0.0001)	Overall Correct Prediction Conclusion: statistically significant and commercially probably insufficient as monotherapy

Validated Trial Evidence: Filtered Registry (122 of 604 trials)

Filtered view: **Neurology**

#	Clinical Trial	Certified Prediction	Validation	Result
	Modality: small molecule MoA: a selective D1R/D5R partial agonist Area: Nervous System Diseases Indication: early Parkinson's Disease Human Patients: 522 Sponsor: AbbVie (ABBV)	Commercial: partial SUCCESS (commercially insufficient additive clinical benefit superior to levodopa for patients who receive tavapadon + MAOB inhibitor combotherapy); partial FAILURE (commercially insufficient clinical benefit non-superior to levodopa for patients who receive tavapadon monotherapy)	in MDS-UPDRS Parts II and III combined score at week 26; numerically slightly superior to -10.8 improvement in MDS-UPDRS total score achieved by Levodopa at week 26 (doi/full/10.1056/NEJMoa033447); thus commercially insufficient because levodopa is a generic.	(combotherapy data TBD) Classification: True Negative (TN)
1607	PBFT02 NCTID: NCT04747431 Phase: Phase 1 Phase 2 Class: First-In-Class Modality: gene therapy MoA: AAV1-mediated GRN gene therapy Area: Nervous System Diseases Indication: Frontotemporal Dementia and Progranulin Mutations (FTD-GRN) Human Patients: 15 Sponsor: Passage Bio (PASG)	Date: 13 May 2024 Quarter: Q3'24 Batch 8 Technical: partial SUCCESS (statistically significant yet weak clinical benefit in CDR + NACC FTLD) Commercial: partial SUCCESS (commercially maybe sufficient clinical benefit in CDR + NACC FTLD)	Readout: 16 Sep 2024 Lead Time: 126 days in advance Interpretation: PBFT02 increased CSF PGRN expression up to 6-10 fold exceeding the range found in healthy adult controls; yet plasma PGRN expression remained below healthy reference levels.	Correct Prediction Conclusion: statistically significant and commercially TBD Classification: True Positive (TP)
1364	Luvadaxistat NCTID: NCT05182476 Phase: Phase 2 Class: First-In-Class Modality: small molecule MoA: DAAO inhibitor Area: Nervous System Diseases Indication: Schizophrenia Human Patients: 216 Sponsor: Neurocrine Biosciences (NBIX)	Date: 30 Nov 2023 Quarter: Q3'24 Batch 13 Technical: partial SUCCESS (statistically maybe significant yet weak additive clinical benefit) Commercial: FAILURE (commercially insufficient additive clinical benefit)	Readout: 12 Sep 2024 Lead Time: 287 days in advance Interpretation: uvadaxistat failed to meet primary endpoint.	Overall Correct Prediction Conclusion: statistically insignificant and commercially insufficient Classification: True Negative (TN)
1628	fosgonimeton (ATH-1017) NCTID: NCT04488419 Phase: Phase 2 Phase 3 Class: First-In-Class Modality: small molecule MoA: HGF/MET agonist Area: Nervous System Diseases Indication: Alzheimer's Disease Human Patients: 554 Sponsor: Athira Pharma (ATHA)	Date: 24 Jun 2024 Quarter: Q3'24 Batch 14 Technical: partial SUCCESS (statistically maybe significant yet very weak clinical benefit) Commercial: FAILURE (commercially insufficient clinical benefit inferior to lecanemab)	Readout: 3 Sep 2024 Lead Time: 71 days in advance Interpretation: none of the primary and secondary endpoints were met; with numerical treatment effect for APOE4 carriers.	Correct Prediction Conclusion: statistically insignificant and commercially insufficient Classification: True Negative (TN)
1244	PRAX-562 NCTID: NCT05818553 Phase: Phase 2 Class: First-In-Class Modality: small molecule MoA: anti-SCN8A antagonist Area: Nervous System Diseases Indication: Developmental and Epileptic Encephalopathies Human Patients: 20 Sponsor: Praxis Precision Medicines (PRAX)	Date: 5 Jan 2024 Quarter: Q2'24 Batch 11 Technical: SUCCESS (statistically significant clinical benefit more for SCN8A-mutant patients than for SCN2A-mutant patients) Commercial: SUCCESS (commercially sufficient clinical benefit for SCN8A-mutant patients)	Readout: 3 Sep 2024 Lead Time: 242 days in advance Interpretation: 46% placebo-adjusted reduction in monthly motor seizure and thus primary endpoint met (whether efficacy is better for SCN8A-DEE is pending for further data).	Correct Prediction Conclusion: statistically significant and commercially sufficient Classification: True Positive (TP)
1428	Tolebrutinib NCTID: NCT04410991 Phase: Phase 3 Class: First-In-Class Modality: small molecule MoA: CNS-penetrant BTK inhibitor Area: Nervous System Diseases	Date: 24 Jan 2024 Quarter: Q1'24 Batch 15 Technical: FAILURE (statistically insignificant clinical benefit) Commercial: FAILURE (commercially insufficient clinical benefit inferior to teriflunomide)	Readout: 2 Sep 2024 Lead Time: 222 days in advance Interpretation: superiority primary endpoint (Tolebrutinib vs teriflunomide in annualized relapse rate reduction) not met.	Correct Prediction Conclusion: statistically insignificant and commercially insufficient Classification: True Negative (TN)

Validated Trial Evidence: Filtered Registry (122 of 604 trials)

Filtered view: **Neurology**

#	Clinical Trial	Certified Prediction	Validation	Result
	Indication: Relapsing Forms of Multiple Sclerosis (RMS) Human Patients: 899 Sponsor: Sanofi (SNY)			
1427	Tolebrutinib NCTID: NCT04410978 Phase: Phase 3 Class: First-In-Class Modality: small molecule MoA: CNS-penetrant BTK inhibitor Area: Nervous System Diseases Indication: Relapsing Forms of Multiple Sclerosis (RMS) Human Patients: 974 Sponsor: Sanofi (SNY)	Date: 24 Jan 2024 Quarter: Q1'24 Batch 15 Technical: FAILURE (statistically insignificant clinical benefit) Commercial: FAILURE (commercially insufficient clinical benefit inferior to teriflunomide)	Readout: 2 Sep 2024 Lead Time: 222 days in advance Interpretation: superiority primary endpoint (Tolebrutinib vs teriflunomide in annualized relapse rate reduction) not met.	Correct Prediction Conclusion: statistically insignificant and commercially insufficient Classification: True Negative (TN)
1661	NBI-1117568 NCTID: NCT05545111 Phase: Phase 2 Class: First-In-Class Modality: small molecule MoA: oral CHRM4 agonist Area: Nervous System Diseases Indication: Schizophrenia Human Patients: 213 Sponsor: Neurocrine Biosciences (NBIX)	Date: 6 Jul 2024 Quarter: Q3'24 Batch 13 Technical: partial SUCCESS (statistically maybe significant yet weak clinical benefit in PANSS at week 6 against placebo featuring moderate toxicity) Commercial: FAILURE (commercially insufficient clinical benefit in PANSS and toxicity inferior to KarXT yet non-inferior/non-superior to emraclidine)	Readout: 28 Aug 2024 Lead Time: 53 days in advance Interpretation: achieved 7.5 point placebo-adjusted improvement in PNASS score; inferior to the SoC KarXT that showed 11.6-point placebo-adjusted improvement in phase 3 studies.	Correct Prediction Conclusion: statistically significant and commercially insufficient Classification: True Negative (TN)
1510	CT1812 NCTID: NCT03507790 Phase: Phase 2 Class: First-In-Class Modality: small molecule MoA: allosteric sigma-2 receptor antagonist Area: Nervous System Diseases Indication: Mild to Moderate Alzheimer's Disease Human Patients: 153 Sponsor: Cognition Therapeutics (CGTX)	Date: 18 Mar 2024 Quarter: Q2'24 Batch 12 Technical: partial SUCCESS (statistically maybe significant yet very weak clinical benefit despite tolerable toxicity) Commercial: FAILURE (commercially insufficient clinical benefit inferior to donanemab/lecanemab)	Readout: 29 Jul 2024 Lead Time: 133 days in advance Interpretation: safe yet none of the key exploratory efficacy endpoints was met (consistent trend only).	Correct Prediction Conclusion: statistically insignificant and commercially insufficient Classification: True Negative (TN)
1638	BLZ945 NCTID: NCT04066244 Phase: Phase 2 Class: First-In-Class Modality: small molecule MoA: CSF1R inhibitor Area: Nervous System Diseases Indication: Amyotrophic Lateral Sclerosis (ALS) Human Patients: 28 Sponsor: Novartis (NVS)	Date: 1 Jul 2024 Quarter: - Batch - Technical: FAILURE (statistically insignificant additive clinical benefit with moderate toxicity to accelerate ALS disease progression) Commercial: FAILURE (commercially insufficient additive clinical benefit in ALSFRS-R)	Readout: 26 Jul 2024 Lead Time: 25 days in advance Interpretation: not disclosed yet trial terminated after internal review of efficacy and toxicity available data	Correct Prediction Conclusion: statistically insignificant and commercially insufficient Classification: True Negative (TN)
1379	SAGE-324 NCTID: NCT05173012 Phase: Phase 2 Class: First-In-Class Modality: small molecule MoA: steroid GABAAR PAM Area: Nervous System Diseases Indication: Essential Tremor Human Patients: 147 Sponsor: Sage Therapeutics	Date: 15 Dec 2023 Quarter: Q1'24 Batch 10 Technical: partial SUCCESS (statistically maybe significant yet weak clinical benefit) Commercial: FAILURE (commercially insufficient clinical benefit)	Readout: 24 Jul 2024 Lead Time: 222 days in advance Interpretation: endpoints not met.	Correct Prediction Conclusion: statistically insignificant and commercially insufficient Classification: True Negative (TN)

Validated Trial Evidence: Filtered Registry (122 of 604 trials)

Filtered view: **Neurology**

#	Clinical Trial	Certified Prediction	Validation	Result
	(SAGE)			
1404	ION582 NCTID: NCT05127226 Phase: Phase 1 Phase 2 Class: First-In-Class Modality: small interfering RNA (siRNA) antisense oligonucleotide MoA: intrathecal anti-UBE3A-AS ASO Area: Nervous System Diseases Indication: Angelman Syndrome Human Patients: 51 Sponsor: Ionis Pharmaceuticals (IONS)	Date: 3 Jan 2024 Quarter: Q2'24 Batch 8 Technical: SUCCESS (statistically significant clinical benefit) Commercial: SUCCESS (commercially sufficient clinical benefit non-superior non-inferior to GTX102)	Readout: 22 Jul 2024 Lead Time: 201 days in advance Interpretation: 97% patients have improvements in SAS-CGI-C endpoint and consistent improvements in multiple functions; advance to pivotal trial alone by Ionis.	Correct Prediction Conclusion: statistically significant and commercially insufficient Classification: True Positive (TP)
1664	LX2006 NCTID: NCT05445323 Phase: Phase 1 Phase 2 Class: First-In-Class Modality: gene therapy MoA: AAVrh10-based gene therapy that deliver human FXN gene to cardiac cells Area: Nervous System Diseases Indication: Friedreich's Ataxia Human Patients: 9 Sponsor: Lexeo Therapeutics (LXE)	Date: 7 Jul 2024 Quarter: Q3'24 Batch 13 Technical: partial SUCCESS (statistically maybe significant yet very weak clinical benefit in cardiac fibrosis/cardiac arrhythmia/exercise tolerance despite significantly increasing FXN expression level) Commercial: FAILURE (commercially insufficient clinical benefit in cardiac fibrosis/cardiac arrhythmia/exercise tolerance)	Readout: 15 Jul 2024 Lead Time: 8 days in advance Interpretation: 11.4% LVMI reduction at month 12; which falls in the lower end of the minimal clinically meaningful improvement threshold of 10-15% reduction in LVMI over 6 to 12 months.	Correct Prediction Conclusion: statistically maybe significant yet weak clinical benefit and commercially insufficient Classification: True Negative (TN)
908	AMT-130 NCTID: NCT05243017 Phase: Phase 1 Phase 2 Class: First-In-Class Modality: gene therapy MoA: AAV gene therapy that delivers anti-HTT miRNA Area: Nervous System Diseases Indication: Early Manifest Huntington's Disease Human Patients: 15 Sponsor: uniQure (QURE)	Date: 13 May 2024 Quarter: Q3'24 Batch 8 Technical: partial SUCCESS (statistically maybe significant yet very weak clinical benefit in UHDRS) Commercial: FAILURE (commercially insufficient clinical benefit in UHDRS)	Readout: 9 Jul 2024 Lead Time: 57 days in advance Interpretation: externally statistically significant less cUHDRS (-0.2 vs -1 at Month 24 for high-dose only (p=0.007) but not low-dose (p=0.21); no statistical improvement in motor or cognitive function even for high-dose group.	Correct Prediction Conclusion: still statistically maybe significant (not strictly placebo-controlled) and commercially insufficient (no motor cognitive function improvement) Classification: True Negative (TN)
909	AMT-130 NCTID: NCT04120493 Phase: Phase 1 Phase 2 Class: First-In-Class Modality: gene therapy MoA: AAV gene therapy that delivers anti-HTT miRNA Area: Nervous System Diseases Indication: Early Manifest Huntington's Disease Human Patients: 36 Sponsor: uniQure (QURE)	Date: 13 May 2024 Quarter: Q3'24 Batch 8 Technical: partial SUCCESS (statistically maybe significant yet very weak clinical benefit in UHDRS) Commercial: FAILURE (commercially insufficient clinical benefit in UHDRS)	Readout: 9 Jul 2024 Lead Time: 57 days in advance Interpretation: externally statistically significant less cUHDRS (-0.2 vs -1 at Month 24 for high-dose only (p=0.007) but not low-dose (p=0.21); no statistical improvement in motor or cognitive function even for high-dose group.	Correct Prediction Conclusion: still statistically maybe significant (not strictly placebo-controlled) and commercially insufficient (no motor cognitive function improvement) Classification: True Negative (TN)
934	Buntanetap NCTID: NCT05357989 Phase: Phase 3 Class: First-In-Class Modality: small molecule MoA: neurotoxic protein synthesis inhibitor Area: Nervous System Diseases Indication: Parkinson's Disease Human Patients: 523 Sponsor: Annovis Bio (ANVS)	Date: 24 Mar 2024 Quarter: Q2'24 Batch 13 Technical: FAILURE (statistically maybe significant yet very weak clinical benefit) Commercial: FAILURE (commercially insufficient clinical benefit)	Readout: 2 Jul 2024 Lead Time: 100 days in advance Interpretation: primary efficacy endpoint not met in presentation rather than press release (x.com/ada.mfeuerstein/status/1808471091066581487)	Correct Prediction Conclusion: statistically insignificant and commercially insufficient Classification: True Negative (TN)

Validated Trial Evidence: Filtered Registry (122 of 604 trials)

Filtered view: **Neurology**

#	Clinical Trial	Certified Prediction	Validation	Result
1246	WVE-003 NCTID: NCT05032196 Phase: Phase 1 Phase 2 Class: First-In-Class Modality: stereopure antisense oligonucleotide MoA: SNP3 mHTT mRNA oligonucleotide Area: Nervous System Diseases Indication: Huntington's Disease Human Patients: 47 Sponsor: Wave Life Sciences (WVE)	Date: 21 Nov 2023 Quarter: 2H'23 Batch 28 Technical: partial SUCCESS (statistically significant clinical benefit in reducing mHTT protein level); partial FAILURE (statistically insignificant clinical benefit in modifying disease progression) Commercial: FAILURE (commercially insufficient clinical benefit in modifying disease progression despite significant reduction in mHTT protein)	Readout: 25 Jun 2024 Lead Time: 217 days in advance Interpretation: -46% mean reduction in mHTT yet insignificant improvement for TMS.	Correct Prediction Conclusion: statistically significant in mHTT and commercially insufficient in TMS Classification: True Negative (TN)
776	JZP385 NCTID: NCT05122650 Phase: Phase 2 Class: First-In-Class Modality: small molecule MoA: t-type calcium channel antagonist Area: Nervous System Diseases Indication: Essential Tremor Human Patients: 420 Sponsor: Jazz Pharmaceuticals (JAZZ)	Date: 21 Nov 2023 Quarter: Q1'24 Batch 1 Technical: FAILURE (statistically insignificant clinical benefit) Commercial: FAILURE (commercially insufficient clinical benefit)	Readout: 20 Jun 2024 Lead Time: 212 days in advance Interpretation: endpoints not met.	Correct Prediction Conclusion: statistically insignificant and commercially insufficient Classification: True Negative (TN)
557	PTC518 NCTID: NCT05358717 Phase: Phase 2 Class: First-In-Class Modality: small molecule MoA: HTT mRNA degradation Area: Nervous System Diseases Indication: Huntington's Disease Human Patients: 252 Sponsor: PTC Therapeutics (PTCT)	Date: 5 Mar 2024 Quarter: Q2'24 Batch 10 Technical: SUCCESS (statistically significant clinical benefit in lowering tHTT level) Commercial: FAILURE (commercially insufficient clinical benefit in UHDRS-TFC score)	Readout: 20 Jun 2024 Lead Time: 107 days in advance Interpretation: 43% mHTT lowering for 10mg; TMS (2.0 points worsening for 5mg and 1.3 points worsening for 10mg vs. 4.9 points worsening for placebo).	Correct Prediction Conclusion: statistically significant and commercially insufficient (TMS and UHDRS scores are both functional endpoints; pending for UHDRSdata) Classification: True Negative (TN)
1464	TSHA-102 NCTID: NCT06152237 Phase: Phase 1 Class: First-In-Class Modality: AAV9-based gene therapy MoA: scAAV9-delivered miniMECP2 gene therapy Area: Nervous System Diseases Indication: Rett Syndrome Human Patients: 6 Sponsor: Taysha Gene Therapies (TSHA)	Date: 14 Feb 2024 Quarter: Q2'24 Batch 2 Technical: partial SUCCESS (statistically maybe significant yet weak clinical benefit) Commercial: FAILURE (commercially insufficient clinical benefit)	Readout: 18 Jun 2024 Lead Time: 125 days in advance Interpretation: weak efficacy in seizure reduction (none is seizure free without anti-seizure medication).	Correct Prediction Conclusion: statistically maybe significant and commercially insufficient Classification: True Negative (TN)
353	Lumateperone NCTID: NCT05061706 Phase: Phase 3 Class: First-In-Class Modality: small molecule MoA: D1R/D2R/D4R/5TH2AR antagonist Area: Mental Disorders Indication: Major Depressive Disorder Human Patients: 480 Sponsor: Intra-Cellular Therapies (ITCI)	Date: 9 Jan 2024 Quarter: Q2'24 Batch 5 Technical: SUCCESS (statistically significant additive clinical benefit) Commercial: SUCCESS (commercially sufficient additive clinical benefit)	Readout: 18 Jun 2024 Lead Time: 161 days in advance Interpretation: 4.5 point placebo-adjusted reduction in MADRS.	Correct Prediction Conclusion: statistically significant and commercially sufficient Classification: True Positive (TP)
1593	Soticlestat	Date: 11 May 2024	Readout: 17 Jun 2024	Correct Prediction

Validated Trial Evidence: Filtered Registry (122 of 604 trials)

Filtered view: **Neurology**

#	Clinical Trial	Certified Prediction	Validation	Result
	NCTID: NCT04940624 Phase: Phase 3 Class: First-In-Class Modality: small molecule MoA: CH24H inhibitor Area: Nervous System Diseases Indication: Dravet Syndrome Human Patients: 144 Sponsor: Takeda Pharmaceutical / Ovid Therapeutics (TAK / OVID)	Quarter: Q3'24 Batch 5 Technical: partial SUCCESS (statistically maybe significant yet weak additive clinical benefit to SoC) Commercial: FAILURE (commercially insufficient additive clinical benefit with inferior-to-cannabidiol-or-fenfluramine efficacy in seizure frequency reduction)	Lead Time: 37 days in advance Interpretation: primary endpoint not met despite meeting several secondary endpoints.	Conclusion: statistically insignificant and inferior to SoC Classification: True Negative (TN)
965	Efgartigimod NCTID: NCT05633407 Phase: Phase 2 Class: First-In-Class Modality: antibody fragment biologic MoA: anti-FcRn antibody fragment Area: Nervous System Diseases Indication: Postural Orthostatic Tachycardia Syndrome Human Patients: 53 Sponsor: argenx (ARGX)	Date: 4 Jul 2023 Quarter: 2H'23 Batch 9 Technical: partial SUCCESS (statistically significant yet weak clinical benefit) Commercial: FAILURE (commercially insufficient clinical benefit)	Readout: 17 Jun 2024 Lead Time: 349 days in advance Interpretation: no clinically meaningful improvements compared to placebo on both total MaPS score and COMPASS31 and trial discontinued.	Correct Prediction Conclusion: statistically insignificant and commercially insufficient Classification: True Negative (TN)
1381	SAGE-718 NCTID: NCT05358821 Phase: Phase 2 Class: First-In-Class Modality: small molecule MoA: NMDAR PAM Area: Nervous System Diseases Indication: Huntington's Disease Human Patients: 69 Sponsor: Sage Therapeutics (SAGE)	Date: 20 Apr 2024 Quarter: Q3'24 Batch 1 Technical: FAILURE (statistically insignificant clinical benefit) Commercial: FAILURE (commercially insufficient clinical benefit)	Readout: 11 Jun 2024 Lead Time: 52 days in advance Interpretation: only trends of functional improvement IN HD-CAB thus statistically insignificant.	Correct Prediction Conclusion: statistically insignificant and commercially insufficient Classification: True Negative (TN)
1541	SPN-817 NCTID: NCT05518578 Phase: Phase 2 Class: First-In-Class Modality: small molecule MoA: a novel synthetic form of Huperzine A; potentially as an acetylcholinesterase inhibitor and an NMDAR antagonist Area: Nervous System Diseases Indication: Resistant Epilepsy Human Patients: 35 Sponsor: Supernus Pharmaceuticals (SUPN)	Date: 11 Apr 2024 Quarter: Q2'24 Batch 15 Technical: partial SUCCESS (statistically maybe significant yet weak clinical benefit in motor seizure frequency reduction) Commercial: FAILURE (commercially insufficient clinical benefit)	Readout: 23 May 2024 Lead Time: 42 days in advance Interpretation: 75% mean focal seizure reduction; 25% TEAE-related discontinuation; high efficacy and high toxicity.	Correct Prediction Conclusion: statistically significant yet commercially insufficient (high toxicity is usually not tolerated for anti-seizure medicine) Classification: True Negative (TN)
1566	BIIB105 NCTID: NCT04494256 Phase: Phase 1 Phase 2 Class: First-In-Class Modality: small interfering RNA (siRNA) antisense oligonucleotide MoA: anti-ATXN2 ASO Area: Nervous System Diseases Indication: Amyotrophic Lateral Sclerosis and Participants With the ALS Ataxin-2 (ATXN2) Genetic Mutation Human Patients: 99 Sponsor: Biogen / Ionis Pharmaceuticals (BIIB/IONS)	Date: 23 Apr 2024 Quarter: Q3'24 Batch 3 Technical: FAILURE (statistically insignificant additive clinical benefit to SoC regardless of the CAG repeat expansion level in the ATXN2 gene) Commercial: FAILURE (commercially insufficient additive clinical benefit to SoC regardless of the CAG repeat expansion level in the ATXN2 gene)	Readout: 16 May 2024 Lead Time: 23 days in advance Interpretation: no reduction in ALS biomarkers; discontinued.	Correct Prediction Conclusion: statistically insignificant and commercially insufficient Classification: True Negative (TN)

Validated Trial Evidence: Filtered Registry (122 of 604 trials)

Filtered view: **Neurology**

#	Clinical Trial	Certified Prediction	Validation	Result
935	Buntanetap/Posiphen NCTID: NCT05686044 Phase: Phase 2 Phase 3 Class: First-In-Class Modality: small molecule MoA: neurotoxic protein synthesis inhibitor Area: Nervous System Diseases Indication: Alzheimer Disease Human Patients: 320 Sponsor: Annovis Bio (ANVS)	Date: 24 Mar 2024 Quarter: Q2'24 Batch 13 Technical: FAILURE (statistically maybe significant yet very weak clinical benefit) Commercial: FAILURE (commercially insufficient clinical benefit)	Readout: 29 Apr 2024 Lead Time: 36 days in advance Interpretation: key efficacy endpoints ADAS-COG11; ADCS-CGIC; ADCS-ADL not met.	Correct Prediction Conclusion: statistically insignificant and commercially insufficient Classification: True Negative (TN)
893	JNJ-40411813 NCTID: NCT04836559 Phase: Phase 2 Class: First-In-Class Modality: small molecule MoA: mGluR2 PAM Area: Nervous System Diseases Indication: Focal Onset Seizures Human Patients: 110 Sponsor: Johnson & Johnson / Addex Therapeutics (JNJ / ADXN)	Date: 9 Apr 2024 Quarter: Q2'24 Batch 14 Technical: partial SUCCESS (statistically maybe significant yet very weak additive clinical benefit) Commercial: FAILURE (commercially insufficient additive clinical benefit)	Readout: 29 Apr 2024 Lead Time: 20 days in advance Interpretation: primary endpoint not met; development discontinued	Correct Prediction Conclusion: statistically insignificant and commercially insufficient Classification: True Negative (TN)
1362	NBI-1065845 NCTID: NCT05203341 Phase: Phase 2 Class: First-In-Class Modality: small molecule MoA: AMPAR PAM Area: Mental Disorders Indication: Major Depressive Disorder Human Patients: 183 Sponsor: Neurocrine Biosciences (NBIX)	Date: 30 Nov 2023 Quarter: - Batch - Technical: FAILURE (statistically insignificant clinical benefit) Commercial: FAILURE (commercially insufficient clinical benefit)	Readout: 23 Apr 2024 Lead Time: 145 days in advance Interpretation: significant MADRS for one dose (likely low dose) yet insignificant for another dose (likely high dose); anti-correlation between dosage and efficacy.	Correct Prediction Conclusion: overall statistically insignificant and commercially insufficient Classification: True Negative (TN)
1454	Tavapadon NCTID: NCT04542499 Phase: Phase 3 Class: First-In-Class Modality: small molecule MoA: a selective D1R/D5R partial agonist Area: Nervous System Diseases Indication: Parkinson's Disease Human Patients: 507 Sponsor: AbbVie / Cerevel Therapeutics (ABBV / CERE)	Date: 14 Feb 2024 Quarter: Q2'24 Batch 4 Technical: FAILURE (statistically insignificant additive clinical benefit) Commercial: FAILURE (commercially insufficient additive clinical benefit)	Readout: 18 Apr 2024 Lead Time: 64 days in advance Interpretation: on time 1.7 hours vs 0.6 hours (p<0.0001); key registrational endpoint MDS-UPDRS not met; key registrational endpoint off time reduction met yet fail to reach the minimally clinically meaningful threshold (-1.0 hour and -3.5 points [10.1002/mds.23638.]).	Correct Prediction Conclusion: overall statistically insignificant and commercially insufficient Classification: True Negative (TN)
1380	SAGE-718 NCTID: NCT05318937 Phase: Phase 2 Class: First-In-Class Modality: small molecule MoA: NMDAR PAM Area: Nervous System Diseases Indication: Parkinson Disease Cognitive Dysfunction Human Patients: 86 Sponsor: Sage Therapeutics (SAGE)	Date: 15 Dec 2023 Quarter: Q1'24 Batch 10 Technical: SUCCESS (statistically significant clinical benefit) Commercial: SUCCESS (commercial sufficient clinical benefit)	Readout: 17 Apr 2024 Lead Time: 124 days in advance Interpretation: WAIS-IV primary efficacy endpoint not met	Missed Prediction Note: due to suboptimal modelling of SAGE718 MoA that has been permanently corrected. Conclusion: statistically insignificant and commercially insufficient Classification: False Positive (FP)
352	Lumateperone NCTID: NCT04985942 Phase: Phase 3	Date: 9 Jan 2024 Quarter: Q1'24 Batch 15 Technical: SUCCESS (statistically	Readout: 16 Apr 2024 Lead Time: 98 days in advance Interpretation: -4.9 placebo-adjusted	Correct Prediction Conclusion: statistically significant and commercially sufficient

Validated Trial Evidence: Filtered Registry (122 of 604 trials)

Filtered view: **Neurology**

#	Clinical Trial	Certified Prediction	Validation	Result
	Class: First-In-Class Modality: small molecule MoA: D1R/D2R/D4R/5TH2AR antagonist Area: Mental Disorders Indication: Major Depressive Disorder Human Patients: 485 Sponsor: Intra-Cellular Therapies (ITCI)	significant additive clinical benefit) Commercial: SUCCESS (commercially sufficient additive clinical benefit)	delta in MADRS score ($p < 0.0001$) & CGI-S ($p < 0.0001$).	Classification: True Positive (TP)
1128	GTX-102 NCTID: NCT04259281 Phase: Phase 1 Phase 2 Class: First-In-Class Modality: small interfering RNA (siRNA) antisense oligonucleotide MoA: intrathecal UBE3A-AS ASO Area: Nervous System Diseases Indication: Angelman Syndrome Human Patients: 74 Sponsor: Ultragenyx Pharmaceutical (RARE)	Date: 3 Jan 2024 Quarter: Q1'24 Batch 13 Technical: SUCCESS (statistically significant clinical benefit) Commercial: SUCCESS (commercially sufficient clinical benefit)	Readout: 15 Apr 2024 Lead Time: 103 days in advance Interpretation: rapid and clinically significant improvement resulting a total MRDI response of +2.0 ($p < 0.0001$) at Day 170 and +2.0 ($p = 0.0007$) at Day 338.	Correct Prediction Conclusion: statistically significant and commercially sufficient (no SoC) Classification: True Positive (TP)
1268	ALKS 2680 NCTID: ISRCTN98204977 Phase: Phase 1 Class: First-In-Class Modality: small molecule MoA: HCRTR2 agonist Area: Nervous System Diseases Indication: Narcolepsy Human Patients: 147 Sponsor: Alkermes (ALKS)	Date: 5 Oct 2023 Quarter: 2H'23 Batch 21 Technical: partial SUCCESS (statistically significant clinical benefit in efficacy); partial FAILURE (statistically insignificant clinical benefit in toxicity worse for NT1 than for NT2) Commercial: FAILURE (commercially insufficient clinical benefit due to on-target toxicity non-superior to TAK994 or JZP441)	Readout: 10 Apr 2024 Lead Time: 188 days in advance Interpretation: safe and effective; advance to NT1/NT2 only; not IH	Overall Correct Prediction Conclusion: statistically significant and commercially TBD Classification: True Negative (TN)
1056	serdexmethylphenidate (SDX) NCTID: NCT05668754 Phase: Phase 2 Class: First-In-Class Modality: small molecule MoA: norepinephrine/dopamine reuptake inhibitors Area: Nervous System Diseases Indication: Idiopathic Hypersomnia Human Patients: 50 Sponsor: Zevra Therapeutics (ZVRA)	Date: 14 Feb 2024 Quarter: Q2'24 Batch 3 Technical: SUCCESS (statistically significant clinical benefit) Commercial: SUCCESS (commercially sufficient clinical benefit)	Readout: 26 Mar 2024 Lead Time: 41 days in advance Interpretation: primary safety endpoint met and secondary efficacy endpoints meaningful.	Correct Prediction Conclusion: statistically significant and commercially sufficient to advance to phase 3 Classification: True Positive (TP)
896	AXS-12 (reboxetine) NCTID: NCT05059223 Phase: Phase 3 Class: Best-In-Class Modality: small molecule MoA: selectively inhibitor of the reuptake of norepinephrine Area: Nervous System Diseases Indication: Narcolepsy Human Patients: 90 Sponsor: Axsome Therapeutics (AXSM)	Date: 1 Dec 2023 Quarter: Q1'24 Batch 2 Technical: SUCCESS (statistically significant clinical benefit) Commercial: SUCCESS (commercially sufficient clinical benefit)	Readout: 25 Mar 2024 Lead Time: 115 days in advance Interpretation: 83% cataplexy attack reduction achieved by AXS12; superior to 49-69% cataplexy attack reduction achieved by the SoC Sodium oxybate (doi.org/10.1016/j.sleep.2003.11.002) primary and secondary endpoints met.	Correct Prediction Conclusion: statistical significant and commercially sufficient Classification: True Positive (TP)
1346	Pimavanserin NCTID: NCT04531982 Phase: Phase 3	Date: 27 Nov 2023 Quarter: Q1'24 Batch 6 Technical: SUCCESS (statistically	Readout: 11 Mar 2024 Lead Time: 105 days in advance Interpretation: primary endpoint not	Missed Prediction Note: due to suboptimal modeling of drug MoA that has been

Validated Trial Evidence: Filtered Registry (122 of 604 trials)

Filtered view: **Neurology**

#	Clinical Trial	Certified Prediction	Validation	Result
	Class: First-In-Class Modality: small molecule MoA: 5HT2AR/5HT2CR antagonist Area: Nervous System Diseases Indication: Schizophrenia Human Patients: 454 Sponsor: Acadia Pharmaceuticals (ACAD)	significant additive clinical benefit) Commercial: SUCCESS (commercially sufficient additive clinical benefit non-inferior to KarXT)	met.	permanently corrected. Conclusion: statistically insignificant and commercially insufficient Classification: False Positive (FP)
342	AMX0035 NCTID: NCT05021536 Phase: Phase 3 Class: First-In-Class Modality: small molecule MoA: sodium phenylbutyrate + taurursodiol Area: Nervous System Diseases Indication: Amyotrophic Lateral Sclerosis Human Patients: 600 Sponsor: Amylyx Pharmaceuticals (AMLX)	Date: 18 Feb 2024 Quarter: Q2'24 Batch 2 Technical: SUCCESS (statistically significant clinical benefit) Commercial: SUCCESS (commercially sufficient clinical benefit)	Readout: 8 Mar 2024 Lead Time: 19 days in advance Interpretation: endpoints not met.	Missed Prediction Note: due to suboptimal modelling of ALS that has been permanently corrected. Conclusion: statistical insignificant and commercially insufficient Classification: False Positive (FP)
1431	PQ912 NCTID: NCT04498650 Phase: Phase 2 Class: First-In-Class Modality: small molecule MoA: QPCT/QPCTL inhibitor Area: Nervous System Diseases Indication: Early Alzheimers Disease Mild Cognitive Impairment Due to AD Human Patients: 259 Sponsor: Vivoryon Therapeutics (VYY)	Date: 20 Jan 2024 Quarter: Q1'24 Batch 16 Technical: partial SUCCESS (statistically maybe significant yet very weak clinical benefit) Commercial: FAILURE (commercially insufficient clinical benefit inferior to donanemab or lecanemab)	Readout: 4 Mar 2024 Lead Time: 44 days in advance Interpretation: primary/secondary endpoint not met.	Overall Correct Prediction Conclusion: statistical insignificant and commercially insufficient Classification: True Negative (TN)
1341	SAR443820 NCTID: NCT05237284 Phase: Phase 2 Class: First-In-Class Modality: small molecule MoA: RIPK1 inhibitor Area: Nervous System Diseases Indication: Amyotrophic Lateral Sclerosis Human Patients: 305 Sponsor: Denali Therapeutics / Sanofi (DNL/SNY)	Date: 21 Nov 2023 Quarter: Q1'24 Batch 7 Technical: FAILURE (statistically insignificant clinical benefit) Commercial: FAILURE (commercially insufficient clinical benefit)	Readout: 16 Feb 2024 Lead Time: 87 days in advance Interpretation: primary endpoint not met.	Correct Prediction Conclusion: statistically insignificant and commercially insufficient Classification: True Negative (TN)
1006	4D-310 NCTID: NCT05629559 Phase: Phase 1 Phase 2 Class: First-In-Class Modality: gene therapy MoA: AAV GLA gene therapy Area: Nervous System Diseases Indication: Fabry Disease Human Patients: 18 Sponsor: 4D Molecular Therapeutics (FDMT)	Date: 2 Dec 2023 Quarter: Q1'24 Batch 8 Technical: FAILURE (statistically insignificant clinical benefit) Commercial: FAILURE (commercially insufficient clinical benefit)	Readout: 12 Feb 2024 Lead Time: 72 days in advance Interpretation: weak efficacy in cardiac endpoints (minimal clinically important difference (MCID) no key renal endpoints with previous clinical hold due to toxicity.	Correct Prediction Conclusion: more likely to be statistically insignificant and commercially insufficient Classification: True Negative (TN)
1409	CTI-1601 NCTID: NCT05579691 Phase: Phase 2 Class: First-In-Class Modality: fusion protein biologic	Date: 7 Jan 2024 Quarter: Q1'24 Batch 14 Technical: partial SUCCESS (statistically significant yet weak clinical benefit due to TAT delivery)	Readout: 12 Feb 2024 Lead Time: 36 days in advance Interpretation: insignificant FXN levels	Correct Prediction Conclusion: statistically significant yet weak and commercially insufficient

Validated Trial Evidence: Filtered Registry (122 of 604 trials)

Filtered view: **Neurology**

#	Clinical Trial	Certified Prediction	Validation	Result
	MoA: TAT-delivered FXN recombinant fusion protein Area: Nervous System Diseases Indication: Friedreich Ataxia Human Patients: 28 Sponsor: Larimar Therapeutics (LRMR)	Commercial: FAILURE (commercially insufficient clinical benefit inferior to omaveloxolone)		Classification: True Negative (TN)
1284	VX-548 NCTID: NCT05558410 Phase: Phase 3 Class: First-In-Class Modality: small molecule MoA: Nav1.8 inhibitor Area: Nervous System Diseases Indication: Acute Pain After an Abdominoplasty Human Patients: 1118 Sponsor: Vertex Pharmaceuticals (VRTX)	Date: 12 Oct 2023 Quarter: 2H'23 Batch 23 Technical: SUCCESS (statistically significant clinical benefit compared with placebo) Commercial: FAILURE (commercially insufficient clinical benefit due to non-superior-to-HB/APAP efficacy and inferior-to-HB/APAP toxicity leading to significant risk of post-marketing withdrawal)	Readout: 30 Jan 2024 Lead Time: 110 days in advance Interpretation: statistically significant than placebo; non-superior to HB/APAP in all endpoints.	Correct Prediction Conclusion: statistically significant and commercially insufficient Classification: True Negative (TN)
1285	VX-548 HB/APAP NCTID: NCT05553366 Phase: Phase 3 Class: First-In-Class Modality: small molecule MoA: Nav1.8 inhibitor Area: Nervous System Diseases Indication: Acute Pain After a Bunionectomy Human Patients: 1075 Sponsor: Vertex Pharmaceuticals (VRTX)	Date: 12 Oct 2023 Quarter: 2H'23 Batch 23 Technical: SUCCESS (statistically significant clinical benefit compared with placebo) Commercial: SUCCESS (commercially sufficient clinical benefit due to superior-to-HB/APAP efficacy and non-inferior-to-HB/APAP toxicity)	Readout: 30 Jan 2024 Lead Time: 110 days in advance Interpretation: statistically significant than placebo; VX-548 is superior to HB/APAP in SPID48 for bunionectomy (P=0.0016) and non-superior in other endpoints.	Overall Correct Prediction Conclusion: statistically significant and overall commercially sufficient Classification: True Positive (TP)
1271	PRX012 NCTID: TBD Phase: Phase 1 Class: Best-In-Class Modality: monoclonal antibody (mAb) MoA: amyloid beta mAb inhibitor Area: Nervous System Diseases Indication: Alzheimer Disease Human Patients: 100 Sponsor: Prothena Corporation (PRTA)	Date: 6 Oct 2023 Quarter: 2H'23 Batch 21 Technical: SUCCESS (statistically significant clinical benefit) Commercial: FAILURE (commercially insufficient clinical benefit inferior to both donanemab and lecanemab)	Readout: 8 Jan 2024 Lead Time: 94 days in advance Interpretation: encouraging amyloid beta reduction without numbers (widely accepted strong sign of weak efficacy).	Correct Prediction Conclusion: commercial insufficient inferior to both donanemab and lecanemab Classification: True Negative (TN)
961	ARGX-117 NCTID: NCT05225675 Phase: Phase 2 Class: First-In-Class Modality: monoclonal antibody (mAb) MoA: C2 mAb inhibitor Area: Nervous System Diseases Indication: Multifocal Motor Neuropathy Human Patients: 54 Sponsor: argenx (ARGX)	Date: 30 Nov 2023 Quarter: Q1'24 Batch 4 Technical: SUCCESS (statistically significant clinical benefit) Commercial: SUCCESS (commercially sufficient clinical benefit)	Readout: 8 Jan 2024 Lead Time: 39 days in advance Interpretation: 91% placebo-adjusted reduction in the need for IVIg rescue.	Correct Prediction Conclusion: statistically significant and commercially sufficient (no approved SoC for reducing IVIg rescue) Classification: True Positive (TP)
1259	LP352 NCTID: NCT05364021 Phase: Phase 1 Phase 2 Class: First-In-Class Modality: small molecule MoA: 5HT2C superagonist Area: Nervous System Diseases Indication: Developmental and	Date: 2 Oct 2023 Quarter: 2H'23 Batch 19 Technical: FAILURE (statistically insignificant clinical benefit) Commercial: FAILURE (commercially insufficient clinical benefit)	Readout: 2 Jan 2024 Lead Time: 92 days in advance Interpretation: 32.5% motor seizure frequency reduction compared with placebo.	Missed Prediction Note: due to suboptimal MoA modelling that has been permanently corrected. Conclusion: statistically significant and commercially sufficient

Validated Trial Evidence: Filtered Registry (122 of 604 trials)

Filtered view: **Neurology**

#	Clinical Trial	Certified Prediction	Validation	Result
	Epileptic Encephalopathies Human Patients: 52 Sponsor: Longboard Pharmaceuticals (LBPH)			Classification: False Negative (FN)

Appendix: Statistical Methodology & Glossary

KPI FORMULAS

Accuracy

$$(TP + TN) / (TP + TN + FP + FN)$$

Precision (PPV)

$$TP / (TP + FP)$$

NPV

$$TN / (TN + FN)$$

F1-Score

$$2 \times TP / (2 \times TP + FP + FN)$$

DOR

$$(TP \times TN) / (FP \times FN)$$

Sensitivity

$$TP / (TP + FN)$$

Specificity

$$TN / (TN + FP)$$

GLOSSARY

Ex-Ante / Prospective

Prediction issued before outcome is known; timestamped proof

TP

True Positive — predicted blockbuster drug-indication pair with moderately or strongly superior to SoC clinical benefit with HR < 0.6, confirmed by clinical readout

TN

True Negative — predicted non-blockbuster drug-indication pair with weakly superior or inferior to SoC clinical benefit with HR > 0.6, confirmed by clinical readout

FP

False Positive — predicted blockbuster drug-indication pair with moderately or strongly superior to SoC clinical benefit with HR < 0.6, contradicted by clinical readout

FN

False Negative — predicted non-blockbuster drug-indication pair with weakly superior or inferior to SoC clinical benefit with HR > 0.6, contradicted by clinical readout

FIC

First-In-Class — novel mechanism of action and indication pair, no approved precedent

BIC

Best-In-Class — improved agent within an established class

DOR

Diagnostic Odds Ratio — measures discriminative power

MoA

Mechanism of Action — how a drug exerts its therapeutic effect

SoC

Standard of Care — current best available treatment

NCTID

ClinicalTrials.gov trial identifier (e.g., NCT12345678)

DATA PROVENANCE

- All predictions in this dossier are sourced from the BioinvestGPT validated prediction database.
- Each prediction is independently verifiable via its unique index number on data.bioinvestgpt.com.
- Clinical readout outcomes are sourced from official company press releases, ClinicalTrials.gov results, and peer-reviewed literature.
- This dossier was generated on April 8, 2026.

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