

Immunology

Effect-Size Predictions

Using Data-free Virtual Clinical Trials

96% accuracy across 144 Immunology trials

Overall: 96% across all 604 validated trials



BioinvestGPT

Evidence Dossier

April 8, 2026

Platform Credentials at a Glance

96%

Prospective Prediction Accuracy

Across 144 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

144 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**.

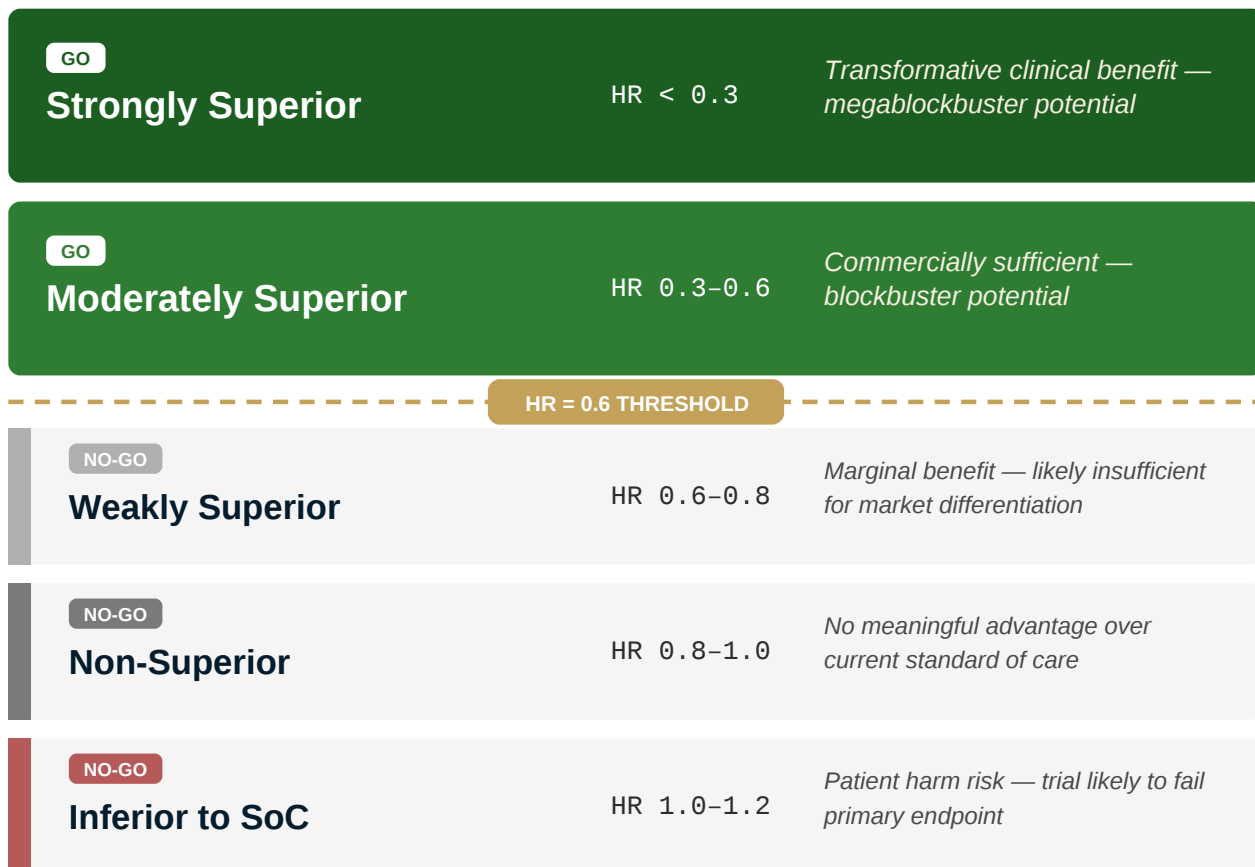


Effect-Size Portfolio Gating Spectrum

Immunology

144 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: 95.8% (144 trials) | Delta: -0.2pp

Predictive Performance Intelligence

Immunology

144 prospectively validated GO/NO-GO predictions

– IMPAIRMENT NO-GO correct rate

Negative Predictive Value (NPV)

98%

86/88 NO-GO predictions validated
 $TN / (TN + FN)$

98% 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

96%

138/144 validated prospective predictions
 $(TP + TN) / (TP + TN + FP + FN)$

96% 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)

93%

52/56 GO predictions validated
 $TP / (TP + FP)$

93% 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.

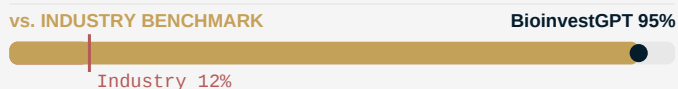
++RELIABILITY GO/NO-GO bias-free rate

F1-Score

95%

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**.



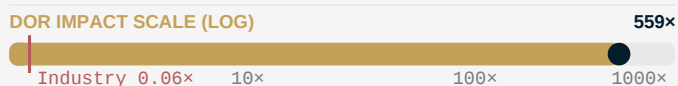
++RELIABILITY GO/NO-GO reliability rate

Diagnostic Odds Ratio (DOR)

559×

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

BioinvestGPT GO/NO-GO predictions is **559 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

Immunology

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.

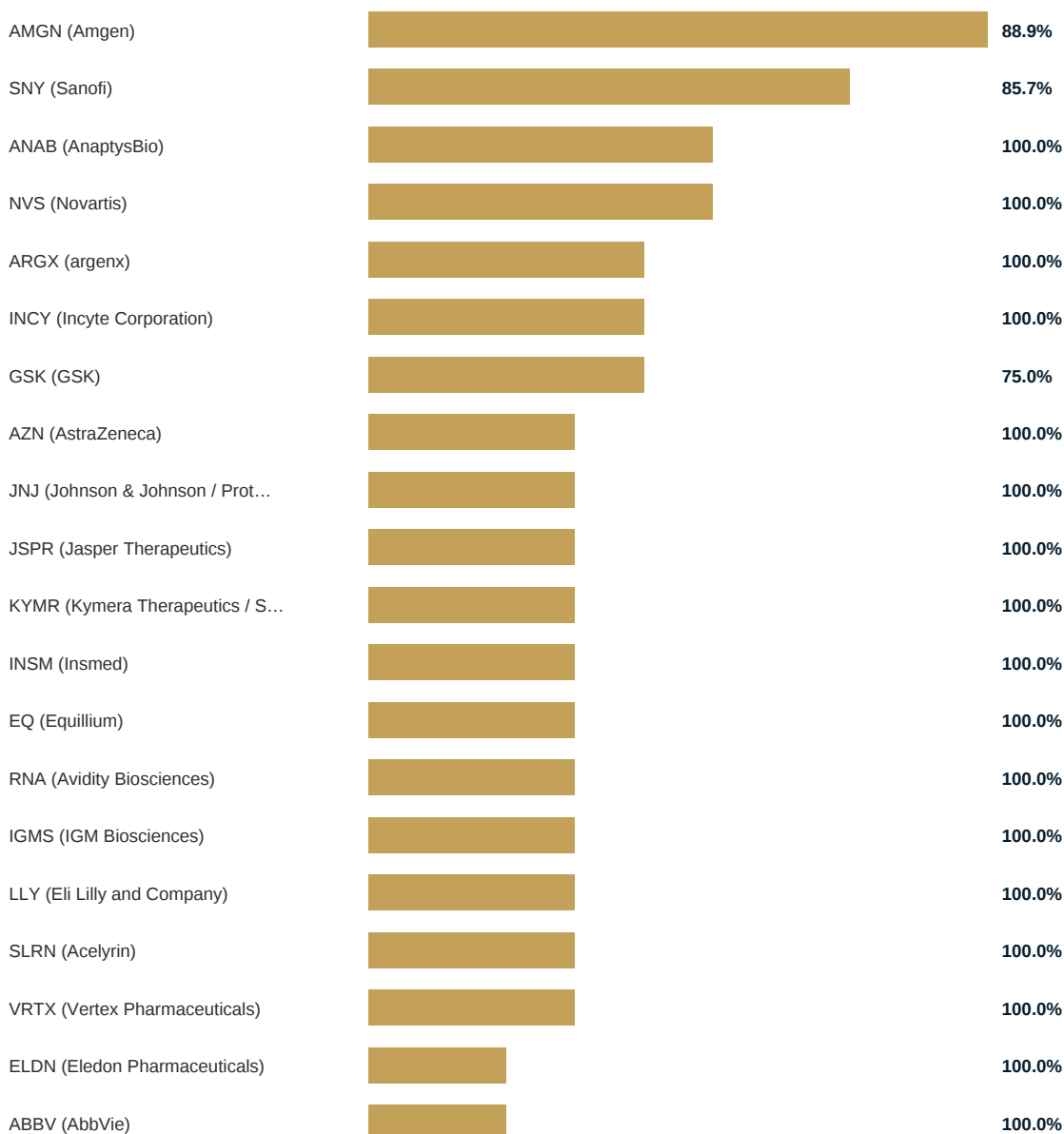
Sponsors Coverage Breakdown

Immunology

Exhibit 2

Validation spans 76 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.



Total unique sponsors: 76 | Average accuracy across top sponsors: 97.5%

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

Immunology

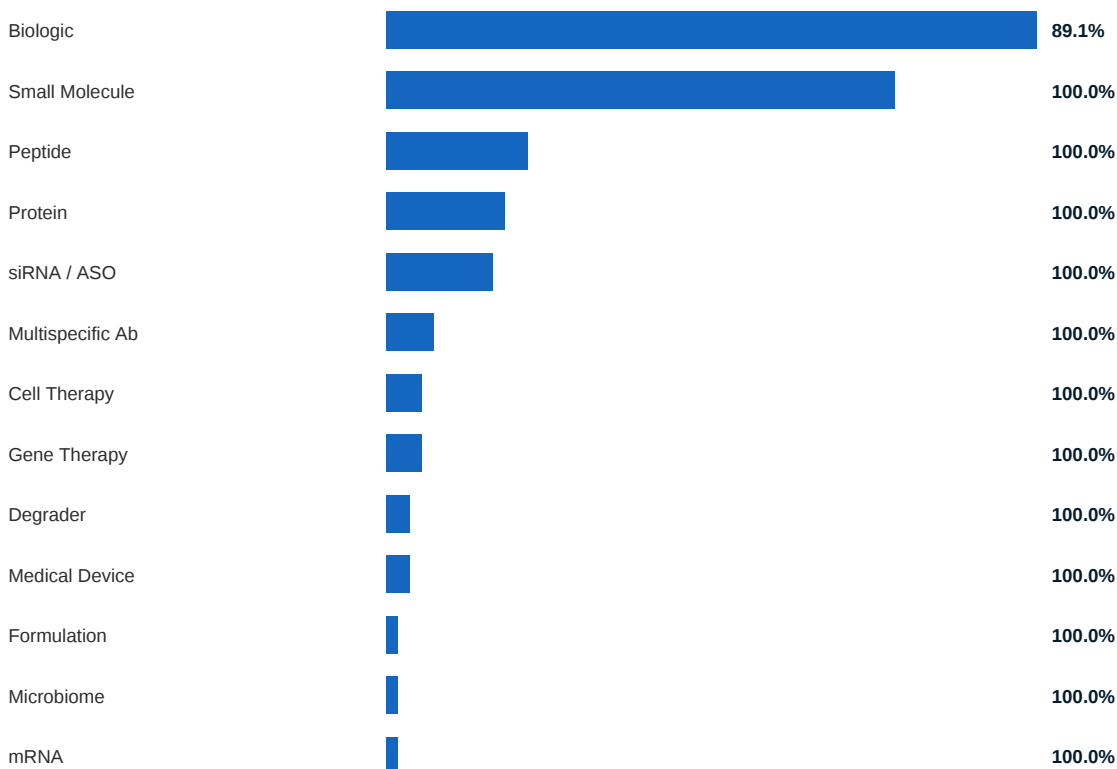
Exhibit 3

Validated across 116 distinct drug assets spanning 13 modalities

DRUG CLASSIFICATION



DRUG MODALITY DISTRIBUTION



Drug Assets Coverage Breakdown

Immunology

Exhibit 4

Validated across 116 distinct drug assets with consistently high prediction accuracy

Efgartigimod	100.0%
icotrokinra (JNJ-2113)	100.0%
Rocatinlimab	100.0%
Imvotamab	100.0%
Izokibep	100.0%
Rosnilimab	100.0%
Upadacitinib	100.0%
SAR444656 (KT-474)	100.0%
Briquilimab	100.0%
SCD-044	100.0%
Itepekimab	100.0%
BREZTRI (PT010)	100.0%
Batoclimab	100.0%
Povorcitinib (INCB054707)	100.0%
LNA043	100.0%
Bempikibart (ADX-914)	100.0%
Depemokimab (GSK3511294)	100.0%
RPT193	100.0%
Imsidolimab (ANB019)	100.0%
VX-121/TEZ/D-IVA ELX/TEZ/IVA ...	100.0%
Tegoprubart	100.0%
Gefurulimab (ALXN1720)	100.0%
Ianalumab (VAY736)	100.0%

Total unique drug assets: 116 | 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.

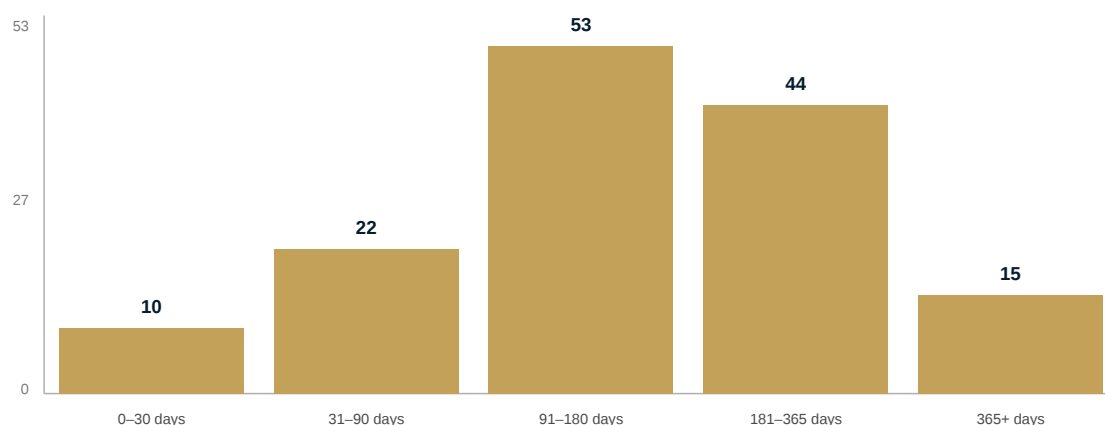
Temporal Integrity: Prospective Proof

Immunology

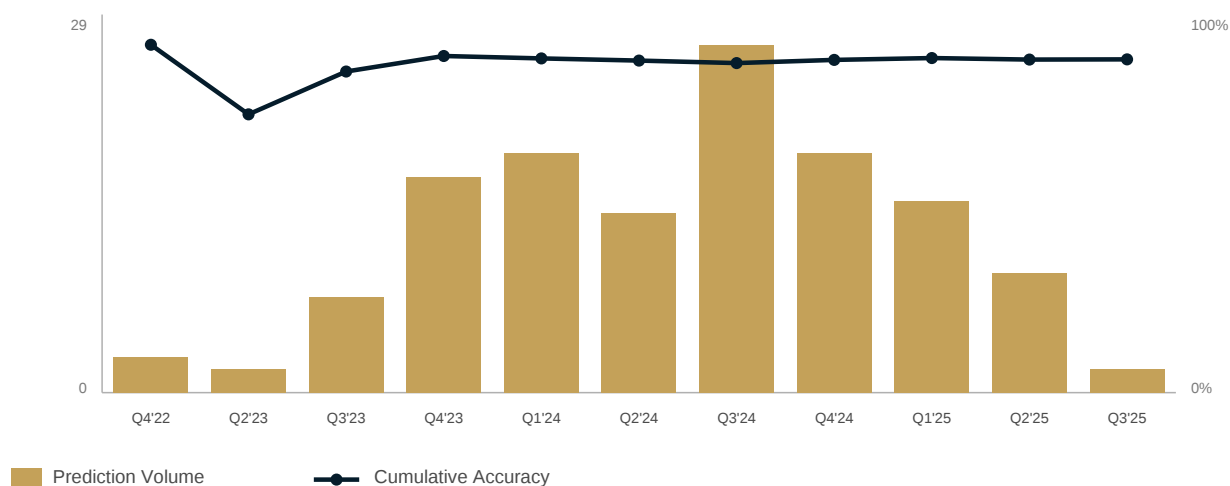
Exhibit 5

100% of predictions issued before clinical readout with median lead time of 185 days

LEAD TIME DISTRIBUTION



QUARTERLY PREDICTION VOLUME & CUMULATIVE ACCURACY



All 144 predictions were certified ex-ante, with an average lead time of 185 days before clinical readout. This temporal integrity is cryptographically verifiable and eliminates any possibility of post-hoc fitting.

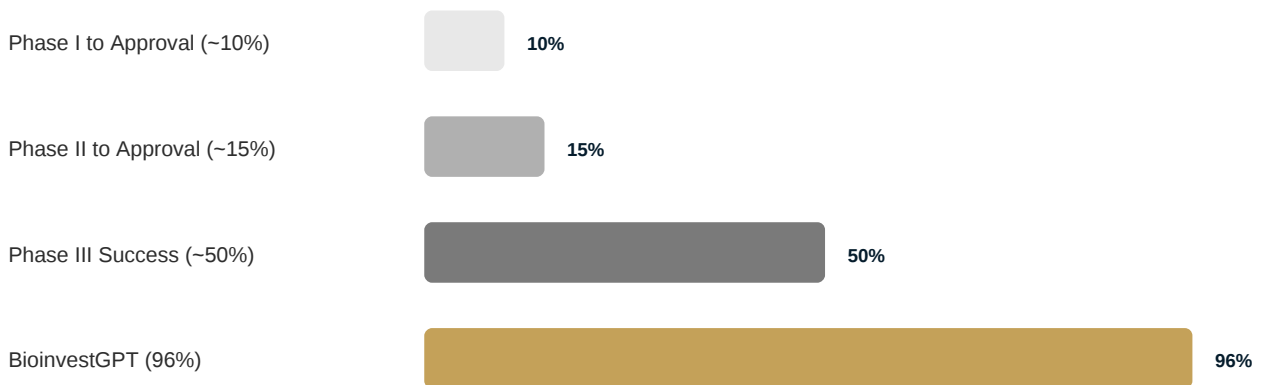
Competitive Benchmark Analysis

Immunology

Exhibit 6

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

CLINICAL DEVELOPMENT SUCCESS RATES



QUANTITATIVE BENCHMARK

Metric	BioinvestGPT	Industry Avg	Context
Accuracy	95.8%	~10-15%	Phase I-to-approval historical rate
Precision (PPV)	92.9%	~11%	Avg drug approval probability
NPV	97.7%	~60%	Combined Phase I-III attrition detection
F1-Score	94.5%	12%	Based on industry 10% nomination rate
DOR	559.0x	0.06x	Based on industry 10% nomination rate
Lead Time	185 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

\$25.8B

86 of 88 NO-GO predictions validated × \$300M avg trial cost

CAPTURED PORTFOLIO VALUE

\$52.0B

52 of 56 GO predictions validated × \$1B avg revenue

Validated Trial Evidence: Filtered Registry (144 of 604 trials)

Filtered view: **Immunology**

#	Clinical Trial	Certified Prediction	Validation	Result
1389	Rosnilimab NCTID: NCT06127043 Phase: Phase 2 Class: First-In-Class Modality: monoclonal antibody (mAb) MoA: anti-PD1 agonist Area: Immune System Diseases Indication: Moderate to Severe Ulcerative Colitis Human Patients: 132 Sponsor: AnaptysBio (ANAB)	Date: 28 Jul 2025 Quarter: Q4'25 Batch 5 Technical: FAILURE (statistically insignificant clinical benefit in modified Mayo score or clinical remission compared with placebo) Commercial: FAILURE (commercially insufficient clinical benefit in modified Mayo score or clinical remission moderately inferior to tolisokibart)	Readout: 10 Nov 2025 Lead Time: 105 days in advance Interpretation: rosnlimab failed to meet the primary efficacy endpoint of modified Mayo Score (mMS) compared with placebo	Correct Prediction Conclusion: statistically insignificant and commercially insufficient Classification: True Negative (TN)
1887	Tegoprubart NCTID: NCT05983770 Phase: Phase 2 Class: First-In-Class Modality: monoclonal antibody (mAb) MoA: anti-CD40L inhibitor Area: Immune System Diseases Indication: Prevention of rejection in kidney transplantation Human Patients: 127 Sponsor: Eledon Pharmaceuticals (ELDN)	Date: 26 Jan 2025 Quarter: Q4'25 Batch 3 Technical: partial SUCCESS (statistically maybe significant yet weak additive clinical benefit in eGFR at most numerically superior to tacrolimus featuring negative dose-response relationship) Commercial: partial SUCCESS (commercially maybe sufficient yet weak additive clinical benefit in eGFR/graft survival/BPAR at most numerically superior to tacrolimus)	Readout: 6 Nov 2025 Lead Time: 284 days in advance Interpretation: tegoprubart + SoC failed to achieve superiority in eGFR compared with tacrolimus + SoC	Correct Prediction Conclusion: statistically insignificant and commercially probably insufficient Classification: True Negative (TN)
1971	Gefurulumab (ALXN1720) NCTID: NCT05556096 Phase: Phase 3 Class: First-In-Class Modality: bispecific nanobody MoA: bispecific nanobody that targets C5 and albumin Area: Immune System Diseases Indication: anti-acetylcholine receptor (AChR) antibody-positive (Ab+) generalized myasthenia gravis (gMG) Human Patients: 260 Sponsor: AstraZeneca (AZN)	Date: 11 Apr 2025 Quarter: Q2'25 Batch 14d Technical: SUCCESS (statistically significant clinical benefit in MG-ADL and QMG compared with placebo) Commercial: partial SUCCESS (commercially maybe sufficient yet moderate clinical benefit in MG-ADL and QMG non-superior-non-inferior to efgartigimod)	Readout: 30 Oct 2025 Lead Time: 202 days in advance Interpretation: gefurulumab achieved -1.6 placebo-adjusted improvement in MG-ADL total score at week 26 (p<0.0001); non-superior-non-inferior to efgartigimod's 1.6-1.7 placebo-adjusted MG-ADL score reduction at week 8-11 (see add'l link below)	Correct Prediction Conclusion: statistically significant and commercially maybe sufficient (non-superior-non-inferior to efgartigimod) Classification: True Negative (TN)
1938	Upadacitinib NCTID: NCT06118411 Phase: Phase 3 Class: Best-In-Class Modality: small molecule MoA: pan-JAK inhibitor with higher efficacy against JAK1 Area: Skin and Connective Tissue Diseases Indication: Vitiligo Human Patients: 614 Sponsor: AbbVie (ABBV)	Date: 24 Feb 2025 Quarter: Q3'25 Batch 1 Technical: SUCCESS (statistically significant clinical benefit in F-VASI75/T-VASI50 for both upadacitinib monotherapy and upadacitinib + NB-UVB combotherapy compared with placebo) Commercial: SUCCESS (commercially sufficient clinical benefit F-VASI75/T-VASI50 for both upadacitinib monotherapy and upadacitinib + NB-UVB combotherapy moderately superior to ruxolitinib)	Readout: 29 Oct 2025 Lead Time: 247 days in advance Interpretation: Upadacitinib 15mg achieved statistically significant 13.5%-15.6% placebo-adjusted T-VASI50 improvement at week 48(p<0.05); statistically significant 16.5%-19.3% placebo-adjusted F-VASI75 improvement at week 48 (p<0.05); and statistically significant 30.5%-35.4% placebo-adjusted F-VASI50 improvement at week 48 (p value undisclosed); no clinical data for ruxolitinib in refractory vitiligo available	Correct Prediction Conclusion: statistically significant and commercially sufficient (no approved SoC for refractory vitiligo) Classification: True Positive (TP)
1642	Ianalumab (VAY736) NCTID: NCT05350072 Phase: Phase 3 Class: First-In-Class Modality: monoclonal antibody (mAb) MoA: anti-BAFFR inhibitor Area: Immune System Diseases Indication: Sjögren Syndrome	Date: 2 Jul 2024 Quarter: - Batch - Technical: FAILURE (statistically insignificant additive clinical benefit in ESSDAI as an adjunctive treatment to background therapies) Commercial: FAILURE (commercially insufficient additive clinical benefit)	Readout: 29 Oct 2025 Lead Time: 484 days in advance Interpretation: Ianalumab achieved -1.3 placebo-adjusted difference in ESSDAI score at week 48 (p=0.05); inferior to iscalimab 300mg that achieved -3.0 placebo-adjusted difference in ESSDAI score at week 24 (p=0.0090; see add'l link below)	Correct Prediction Conclusion: statistically borderline significant and commercially probably insufficient (inferior to iscalimab) Classification: True Negative (TN)

Validated Trial Evidence: Filtered Registry (144 of 604 trials)

Filtered view: **Immunology**

#	Clinical Trial	Certified Prediction	Validation	Result
	Human Patients: 276 Sponsor: Novartis Pharmaceuticals (NVS)	inferior to iscalimab that's further inferior to rituximab in ESSDAI as an adjunctive treatment to background therapies)		
1890	BBP-418 (Ribitol) NCTID: NCT05775848 Phase: Phase 3 Class: First-In-Class Modality: small molecule MoA: prodrug ribitol Area: Musculoskeletal Diseases Indication: Limb-Girdle Muscular Dystrophy Type 2i (LGMD2i) Human Patients: 81 Sponsor: BridgeBio Pharma (BBIO)	Date: 26 Jan 2025 Quarter: Q2'25 Batch 6 Technical: FAILURE (statistically maybe significant yet very weak clinical benefit in NSAD/10MWR compared with placebo) Commercial: FAILURE (commercially insufficient clinical benefit in NSAD/10MWR non-superior to FKRP gene therapy)	Readout: 27 Oct 2025 Lead Time: 274 days in advance Interpretation: BBP418 achieved 0.27m/s placebo-adjusted improvement in 100MTT (p<0.0001); which is below the MCID threshold (>=0.55m/s placebo-adjusted improvement in 100MTT; calculated using the 112.2(127.9) baseline 100MTT of patients in the FORTIFY trial (see add'l link below) and the 1/3 SD MCID definition (doi.org/10.1212/WNL.92.15_supplement.S33.003)	Correct Prediction Conclusion: statistically significant yet weak clinical benefit and commercially probably insufficient Classification: True Negative (TN)
1649	Secukinumab NCTID: NCT05767034 Phase: Phase 3 Class: First-In-Class Modality: monoclonal antibody (mAb) MoA: anti-IL17A inhibitor Area: Immune System Diseases Indication: Polymyalgia Rheumatica (PMR) Human Patients: 381 Sponsor: Novartis Pharmaceuticals (NVS)	Date: 2 Jul 2024 Quarter: Q4'25 Batch 6 Technical: SUCCESS (statistically significant additive clinical benefit in sustained remission in combination with 24wk prednisone taper regimen; though secukinumab's additive efficacy for PMR would be smaller than that for GCA) Commercial: SUCCESS (commercially sufficient additive clinical benefit in sustained remission superior to tocilizumab in combination with 24wk prednisone taper regimen)	Readout: 22 Oct 2025 Lead Time: 477 days in advance Interpretation: Secukinumab + SoC met the primary endpoint and all secondary endpoints at week 52 compared with SoC alone	Correct Prediction Conclusion: statistically significant and commercially sufficient Classification: True Positive (TP)
1992	Sonelokimab NCTID: NCT06411899 Phase: Phase 3 Class: Best-In-Class Modality: nanobody biologic MoA: trivalent nanobody that binds IL17A IL17F and serum albumin Area: Immune System Diseases Indication: Moderate to Severe Hidradenitis Suppurativa Human Patients: 422 Sponsor: MoonLake Immunotherapeutics (MLTX)	Date: 26 Apr 2025 Quarter: Q3'25 Batch 2 Technical: SUCCESS (statistically significant clinical benefit in HiSCR75 compared with placebo) Commercial: SUCCESS (commercially sufficient clinical benefit in HiSCR75 slightly superior to bimekizumab and moderately superior to brivekimig)	Readout: 28 Sep 2025 Lead Time: 155 days in advance Interpretation: sonelokimab has achieved 18.3% placebo-adjusted HiSCR75; slightly superior to 18% placebo-adjusted HiSCR75 achieved by bimekizumab (see add'l link below)	Correct Prediction Conclusion: statistically significant and commercially sufficient (slightly superior to bimekizumab) Classification: True Positive (TP)
1856	Brivekimig (SAR442970) NCTID: NCT05849922 Phase: Phase 2 Class: First-In-Class Modality: bispecific antibody MoA: bispecific antibody that inhibits both TNFalpha and OX40L Area: Immune System Diseases Indication: Hidradenitis Suppurativa Human Patients: 86 Sponsor: Sanofi (SNY)	Date: 7 Dec 2024 Quarter: Q1'25 Batch 13 Technical: SUCCESS (statistically significant clinical benefit in HiSCR50 score against placebo) Commercial: partial SUCCESS (commercially sufficient yet moderate clinical benefit in HiSCR50 score superior to adalimumab/povorcitinib yet non-superior to sonelokimab/bimekizumab/secukinumab)	Readout: 17 Sep 2025 Lead Time: 284 days in advance Interpretation: Brivekimig has achieved 30% placebo-adjusted HiSCR50 and 22% placebo-adjusted HiSCR90; superior to 24% placebo-adjusted HiSCR50 (10.1056/NEJMoa1504370) and 15% placebo-adjusted HiSCR90 achieved by adalimumab (10.1001/jamadermatol.2021.2905); yet non-superior to 24% placebo-adjusted HiSCR50 (10.1016/S0140-6736(24)00101-6) and 32% placebo-adjusted HiSCR90 achieved by bimekizumab (see add'l link below)	Correct Prediction Conclusion: statistically significant and commercially maybe sufficient Classification: True Negative (TN)
1132	Brepocitinib NCTID: NCT05437263 Phase: Phase 3	Date: 14 May 2025 Quarter: Q3'25 Batch 8 Technical: partial SUCCESS	Readout: 17 Sep 2025 Lead Time: 126 days in advance Interpretation: brepocitinib 30mg	Correct Prediction Conclusion: statistically significant and commercially sufficient

Validated Trial Evidence: Filtered Registry (144 of 604 trials)

Filtered view: **Immunology**

#	Clinical Trial	Certified Prediction	Validation	Result
	Class: First-In-Class Modality: small molecule MoA: JAK1/TYK2 inhibitor Area: Skin and Connective Tissue Diseases Indication: Dermatomyositis Human Patients: 241 Sponsor: Roivant Sciences (ROIV)	(statistically significant additive clinical benefit in TIS score compared with placebo for previously untreated patients) partial FAILURE (statistically insignificant clinical benefit in TIS score compared with placebo for previously treated patients) Commercial: partial SUCCESS (commercially sufficient additive clinical benefit in TIS score compared with placebo for previously untreated patients) partial FAILURE (commercially insufficient clinical benefit in TIS score compared with placebo for previously treated patients)	achieved 15.3 placebo-adjusted improvement in TIS at week 52 (p=0.0006)	Classification: True Positive (TP)
1871	icotrokinra (JNJ-2113) NCTID: NCT06220604 Phase: Phase 3 Class: First-In-Class Modality: peptide MoA: oral anti-IL23R antagonist Area: Immune System Diseases Indication: Moderate to Severe Plaque Psoriasis Human Patients: 731 Sponsor: Johnson & Johnson / Protagonist Therapeutics (JNJ / PTGX)	Date: 14 Jan 2025 Quarter: Q2'25 Batch 1 Technical: SUCCESS (statistically significant clinical benefit in IGA0/PASI90 superior to deucravacitinib) Commercial: partial SUCCESS (commercially sufficient yet moderate clinical benefit in IGA0/PASI90 non-superior to bimekizumab)	Readout: 17 Sep 2025 Lead Time: 246 days in advance Interpretation: icotrokinra achieved 56% placebo-adjusted PASI90 at week 16 (p<0.0001); superior to deucravacitinib in the same trial; yet inferior to bimekizumab's 90% placebo-adjusted PASI90 at week 16 (see add'l link below)	Correct Prediction Conclusion: statistically significant and commercially sufficient (oral) Classification: True Positive (TP)
1870	icotrokinra (JNJ-2113) NCTID: NCT06143878 Phase: Phase 3 Class: First-In-Class Modality: peptide MoA: oral anti-IL23R antagonist Area: Immune System Diseases Indication: Moderate to Severe Plaque Psoriasis Human Patients: 774 Sponsor: Johnson & Johnson / Protagonist Therapeutics (JNJ / PTGX)	Date: 14 Jan 2025 Quarter: Q2'25 Batch 1 Technical: SUCCESS (statistically significant clinical benefit in IGA0/PASI90 superior to deucravacitinib) Commercial: partial SUCCESS (commercially sufficient yet moderate clinical benefit in IGA0/PASI90 non-superior to bimekizumab)	Readout: 17 Sep 2025 Lead Time: 246 days in advance Interpretation: icotrokinra achieved 51% placebo-adjusted PASI90 at week 16 (p<0.0001) superior to deucravacitinib in the same trial; yet inferior to bimekizumab's 90% placebo-adjusted PASI90 at week 16 (see add'l link below)	Correct Prediction Conclusion: statistically significant and commercially sufficient (oral) Classification: True Positive (TP)
2000	Intravenous Efzofitimod NCTID: NCT05415137 Phase: Phase 3 Class: First-In-Class Modality: fusion protein biologic MoA: NRP2 agonist Area: Respiratory Tract Diseases Indication: Pulmonary Sarcoidosis Human Patients: 268 Sponsor: aTyr Pharma (ATYR)	Date: 3 May 2025 Quarter: Q3'25 Batch 4 Technical: SUCCESS (statistically significant additive clinical benefit to OCS in FVC/KSQ-Lung compared with placebo) Commercial: partial SUCCESS (commercially maybe sufficient yet moderate additive clinical benefit to OCS in FVC/KSQ-Lung slightly inferior to methotrexate +OCS)	Readout: 15 Sep 2025 Lead Time: 135 days in advance Interpretation: Efzofitimod failed to achieve the primary endpoint of replacing OCS compared with placebo at week 48 (-2.57mg vs -3.52 mg; p=0.3313); moderately inferior to methotrexate whose efficacy in FVC achieved non-inferiority compared with OCS and thus could replace OCS (see add'l link below); Efzofitimod + OCS achieved 4.17 improvement in KSQ-Lung score at week 48 (10.36 vs 6.19; p=0.0479)	Correct Prediction Conclusion: statistically partially significant and commercially maybe sufficient Classification: True Negative (TN)
1101	Inhaled Treprostinil NCTID: NCT05255991 Phase: Phase 3 Class: First-In-Class Modality: small molecule MoA: synthetic analog of prostacyclin Area: Respiratory Tract Diseases Indication: Idiopathic Pulmonary Fibrosis Human Patients: 597	Date: 28 Jul 2025 Quarter: Q4'25 Batch 4 Technical: SUCCESS (statistically significant clinical benefit in FVC and OS compared with placebo) Commercial: SUCCESS (commercially sufficient clinical benefit in FVC and OS moderately superior to nerandomilast)	Readout: 2 Sep 2025 Lead Time: 36 days in advance Interpretation: Tyvaso as an add-on treatment achieved a 95.6mL placebo-adjusted improvement in absolute FVC at week 52 (p<0.0001); moderately superior to nerandomilast that achieved a 68.8mL placebo-adjusted improvement in absolute FVC at week 52 (p<0.0001) (see add'l link below)	Correct Prediction Conclusion: statistically significant (FVC) and commercially sufficient (moderately superior to nerandomilast in FVC) Classification: True Positive (TP)

Validated Trial Evidence: Filtered Registry (144 of 604 trials)

Filtered view: **Immunology**

#	Clinical Trial	Certified Prediction	Validation	Result
	Sponsor: United Therapeutics (UTHR)			
1207	Barzolvolimab (CDX-0159) NCTID: NCT05774184 Phase: Phase 2 Class: First-In-Class Modality: monoclonal antibody (mAb) MoA: anti-ckIT inhibitor Area: Immune System Diseases Indication: Eosinophilic Esophagitis (EoE) Human Patients: 86 Sponsor: Celldex Therapeutics (CLDX)	Date: 15 May 2025 Quarter: Q3'25 Batch 9 Technical: SUCCESS (statistically significant clinical benefit in DSQ compared with placebo) Commercial: SUCCESS (commercially sufficient clinical benefit in DSQ slightly superior to dupilumab)	Readout: 19 Aug 2025 Lead Time: 96 days in advance Interpretation: barzolvolimab failed to achieve the primary efficacy endpoint in DSQ (p=0.33)	Missed Prediction Note: due to suboptimal disease model that has been permanently improved Conclusion: statistically insignificant and commercially insufficient Classification: False Positive (FP)
625	AT-1501 (Tegoprubart) NCTID: NCT05027906 Phase: Phase 1 Phase 2 Class: First-In-Class Modality: monoclonal antibody (mAb) MoA: anti-CD40L inhibitor Area: Immune System Diseases Indication: prevention of rejection in kidney transplantation Human Patients: 48 Sponsor: Eledon Pharmaceuticals (ELDN)	Date: 26 Jan 2025 Quarter: Q2'25 Batch 6 Technical: partial SUCCESS (statistically maybe significant yet weak additive clinical benefit in eGFR compared with placebo featuring negative dose-response relationship) Commercial: partial SUCCESS (commercially maybe sufficient yet weak additive clinical benefit in eGFR/graft survival/BPAR at most numerically superior to tacrolimus)	Readout: 6 Aug 2025 Lead Time: 192 days in advance Interpretation: tegoprubart stabilized eGFR at 63 mL/min/1.73 m2 and achieved -4.11 iBox score at 12 months; both are numerically superior to calcineurin inhibitors (e.g. tacrolimus) that stabilised eGFR at 53 mL/min/1.73 m2 and achieved -2.98 iBox score at 12 months	Correct Prediction Conclusion: statistically maybe significant (iBox) and commercially maybe sufficient (weak efficacy in eGFR) Classification: True Negative (TN)
1944	VYN201 (repibresib) NCTID: NCT06493578 Phase: Phase 2 Class: First-In-Class Modality: small molecule MoA: BET inhibitor Area: Skin and Connective Tissue Diseases Indication: Non-segmental Vitiligo Human Patients: 200 Sponsor: Vyne Therapeutics (VYNE)	Date: 27 Mar 2025 Quarter: Q2'25 Batch 12b Technical: FAILURE (statistically maybe significant yet very weak clinical benefit in F-VASI50/T-VASI50 compared with placebo) Commercial: FAILURE (commercially insufficient clinical benefit in F-VASI50/T-VASI50 inferior to baricitinib/ruxolitinib/upadacitinib)	Readout: 30 Jul 2025 Lead Time: 125 days in advance Interpretation: repibresib failed to achieve the primary endpoint in F-VASI50 at week 24	Correct Prediction Conclusion: statistically insignificant and commercially insufficient Classification: True Negative (TN)
1937	Upadacitinib NCTID: NCT06012240 Phase: Phase 3 Class: Best-In-Class Modality: small molecule MoA: pan-JAK inhibitor with higher efficacy against JAK1 Area: Skin and Connective Tissue Diseases Indication: Alopecia Areata Human Patients: 1500 Sponsor: AbbVie (ABBV)	Date: 24 Feb 2025 Quarter: Q3'25 Batch 1 Technical: SUCCESS (statistically significant clinical benefit in SALT<=20 compared with placebo) Commercial: SUCCESS (commercially sufficient clinical benefit in SALT<=20/SALT<=10 moderately superior to baricitinib)	Readout: 30 Jul 2025 Lead Time: 156 days in advance Interpretation: Upadacitinib achieved 50.9% placebo-adjusted SALT20 response at week 24; moderately superior to rituximab that achieved 29.1% placebo-adjusted SALT20 response at week 24 (see add'l link below) and moderately superior to baricitinib that achieved 28% placebo-adjusted SALT20 response at week 24 (see DOI-10.1056/NEJMoa2110343)	Correct Prediction Conclusion: statistically significant and commercially sufficient Classification: True Positive (TP)
1844	ATI-2138 NCTID: NCT06585202 Phase: Phase 2 Class: First-In-Class Modality: small molecule MoA: oral anti-ITK and anti-JAK3 dual inhibitor Area: Skin and Connective Tissue Diseases	Date: 10 Nov 2024 Quarter: Q1'25 Batch 10 Technical: SUCCESS (statistically significant clinical benefit in EASI75 against placebo) Commercial: SUCCESS (commercially sufficient clinical benefit in EASI75 superior to	Readout: 29 Jul 2025 Lead Time: 261 days in advance Interpretation: ATI2138 achieved 77.1% mean EASI score improvement at week 12 (p<0.001); superior to dupilumab's 67.5% mean EASI score improvement at week 12 (see add'l link below); and superior to upadacitinib's 69.2% mean EASI	Correct Prediction Conclusion: statistically significant and commercially probably sufficient Classification: True Positive (TP)

Validated Trial Evidence: Filtered Registry (144 of 604 trials)

Filtered view: **Immunology**

#	Clinical Trial	Certified Prediction	Validation	Result
	Indication: Moderate to Severe Atopic Dermatitis Human Patients: 14 Sponsor: Aclaris Therapeutics (ACRS)	dupilumab and superior to upadacitinib)	score improvement at week 12-16 (see DOI-10.1016/j.ad.2024.10.067)	
2020	KB304 NCTID: NCT06724900 Phase: Phase 1 Phase 2 Class: First-In-Class Modality: gene therapy MoA: HSV1 gene therapy delivering COL3A1 and ELN transgenes Area: Skin and Connective Tissue Diseases Indication: Moderate to Severe Wrinkles of the Décolleté Human Patients: 376 Sponsor: Krystal Biotech (KRY)	Date: 13.May.25 Quarter: Q3'25 Batch 8 Technical: FAILURE (statistically insignificant clinical benefit in wrinkle reduction compared with placebo) Commercial: FAILURE (commercially insufficient clinical benefit in wrinkle reduction slightly inferior to KB301)	Readout: 24 Jul 2025 Lead Time: — Interpretation: KB304 achieved numerically higher subject-reported ≥ 1 point GAIS improvement at three months (72.7% vs 14.3%; no p-value reported); no data reported for improvements in wrinkle severity such as JDWS	Correct Prediction Conclusion: statistically maybe insignificant (no p-value reported) and commercially TBD Classification: True Negative (TN)
1995	briquilimab NCTID: NCT06592768 Phase: Phase 1 Class: First-In-Class Modality: monoclonal antibody MoA: aglycosylated anti-ckIT inhibitor Area: Respiratory Tract Diseases Indication: Allergic Asthma Human Patients: 17 Sponsor: Jasper Therapeutics (JSPR)	Date: 26 Apr 2025 Quarter: Q3'25 Batch 3 Technical: partial FAILURE (statistically maybe significant yet very weak clinical benefit in allergy-induced LAR/EAR compared with placebo) Commercial: FAILURE (commercially insufficient clinical benefit allergy-induced LAR/EAR non-superior to SoC)	Readout: 7 Jul 2025 Lead Time: 72 days in advance Interpretation: briquilimab's further development has been discontinued	Correct Prediction Conclusion: statistically insignificant and commercially insufficient Classification: True Negative (TN)
1882	APG777 NCTID: NCT06395948 Phase: Phase 2 Class: Best-In-Class Modality: monoclonal antibody MoA: YTE-and-LALA-modified anti-IL13 inhibitor Area: Skin and Connective Tissue Diseases Indication: moderate-to-severe Atopic Dermatitis Human Patients: 431 Sponsor: Apogee Therapeutics (APGE)	Date: 23 Jan 2025 Quarter: Q2'25 Batch 5 Technical: SUCCESS (statistically significant clinical benefit in EASI75 compared with placebo) Commercial: partial SUCCESS (commercially maybe sufficient yet moderate clinical benefit in EASI75 at least numerically superior to lebrikizumab yet still inferior to upadacitinib)	Readout: 7 Jul 2025 Lead Time: 165 days in advance Interpretation: APG777 achieved 42.3% placebo-adjusted EASI75 at week 16 ($p < 0.001$); numerically superior to lebrikizumab's 38% placebo-adjusted EASI75 at week 16 averaged from two phase 3 trials (see 10.1056/NEJMoa2206714); and inferior to upadacitinib's nearly 60% placebo-adjusted EASI75 at week 24 (see add'l link below)	Correct Prediction Conclusion: statistically significant and commercially insufficient Classification: True Negative (TN)
1824	SAR444656 (KT-474) NCTID: NCT06028230 Phase: Phase 2 Class: First-In-Class Modality: small molecule MoA: E3ligase-binding IRAK4 degrader Area: Immune System Diseases Indication: Moderate to Severe Hidradenitis Suppurativa Human Patients: 70 Sponsor: Kymera Therapeutics / Sanofi (KYMR / SNY)	Date: 4 Nov 2024 Quarter: Q1'25 Batch 6 Technical: SUCCESS (statistically significant yet moderate clinical benefit in HiSCR50 against placebo) Commercial: FAILURE (commercially insufficient clinical benefit in HiSCR50 non-superior to adalimumab and inferior to sonelokimab/bimekizumab/secukinumab)	Readout: 25 Jun 2025 Lead Time: 233 days in advance Interpretation: SAR444656's further development is discontinued	Correct Prediction Conclusion: statistically TBD and commercially insufficient Classification: True Negative (TN)
1822	SAR444656 (KT-474) NCTID: NCT06058156 Phase: Phase 2 Class: First-In-Class Modality: small molecule	Date: 4 Nov 2024 Quarter: Q1'25 Batch 6 Technical: SUCCESS (statistically significant clinical benefit in EASI75 against placebo)	Readout: 25 Jun 2025 Lead Time: 233 days in advance Interpretation: SAR444656's further development is discontinued	Correct Prediction Conclusion: statistically TBD and commercially insufficient Classification: True Negative (TN)

Validated Trial Evidence: Filtered Registry (144 of 604 trials)

Filtered view: **Immunology**

#	Clinical Trial	Certified Prediction	Validation	Result
	MoA: E3ligase-binding IRAK4 degrader Area: Skin and Connective Tissue Diseases Indication: Moderate to Severe Atopic Dermatitis Human Patients: 70 Sponsor: Kymera Therapeutics / Sanofi (KYMR / SNY)	Commercial: partial SUCCESS (commercially maybe sufficient clinical benefit in EASI75 superior to adalimumab and non-superior to upadacitinib)		
1820	Rezpegaldesleukin (Rezpeg) NCTID: NCT06136741 Phase: Phase 2 Class: First-In-Class Modality: PEGylated peptide MoA: pegylated recombinant protein IL2 agonist Area: Skin and Connective Tissue Diseases Indication: Moderate to Severe Atopic Dermatitis Human Patients: 396 Sponsor: Nektar Therapeutics (NKTR)	Date: 3 Nov 2024 Quarter: Q1'25 Batch 6 Technical: FAILURE (statistically maybe significant yet very weak clinical benefit in EASI75 against placebo) Commercial: FAILURE (commercially insufficient clinical benefit in EASI75 inferior to dupilumab or upadacitinib)	Readout: 24 Jun 2025 Lead Time: 233 days in advance Interpretation: rezpegaldesleukin achieved 25% placebo-adjusted EASI75 at week 16; inferior to dupilumab nearly 40% placebo-adjusted EASI75 at week 16 (see DOI-10.1056/NEJMoa1610020); and inferior to upadacitinib's nearly 60% placebo-adjusted EASI75 at week 24 (see add'l link below)	Correct Prediction Conclusion: statistically significant and commercially insufficient (inferior to both dupilumab and upadacitinib) Classification: True Negative (TN)
1881	SPY072 NCTID: NCT06622070 Phase: Phase 1 Class: Best-In-Class Modality: monoclonal antibody MoA: anti-TL1A inhibitor Area: Immune System Diseases Indication: rheumatoid arthritis (RA); psoriatic arthritis (PsA); axial spondyloarthritis (axSpA) Human Patients: 56 Sponsor: Spyre Therapeutics (SYRE)	Date: 22 Jan 2025 Quarter: Q2'25 Batch 4 Technical: SUCCESS (statistically significant yet moderate clinical benefit in clinical remission and endoscopic response compared with placebo) Commercial: FAILURE (commercially insufficient clinical benefit in clinical remission and endoscopic response inferior to MK7240/TEV574)	Readout: 17 Jun 2025 Lead Time: 146 days in advance Interpretation: SPY072 achieved a comparable PK to SPY002 without >= Grade 2 TEAEs	Correct Prediction Conclusion: statistically significant and commercially TBD Classification: True Positive (TP)
1880	SPY002 NCTID: NCT06672718 Phase: Phase 1 Class: Best-In-Class Modality: monoclonal antibody MoA: anti-TL1A inhibitor Area: Immune System Diseases Indication: Ulcerative Colitis Human Patients: 56 Sponsor: Spyre Therapeutics (SYRE)	Date: 22 Jan 2025 Quarter: Q2'25 Batch 4 Technical: SUCCESS (statistically significant yet moderate clinical benefit in clinical remission and endoscopic response compared with placebo) Commercial: FAILURE (commercially insufficient clinical benefit in clinical remission and endoscopic response inferior to MK7240/TEV574)	Readout: 17 Jun 2025 Lead Time: 146 days in advance Interpretation: SPY002 achieved a 75-day half-life which is more than 3-fold greater than 1st-gen anti-TL1As; without >= Grade 2 TEAEs	Correct Prediction Conclusion: statistically significant and commercially TBD Classification: True Positive (TP)
1712	Briquilimab NCTID: NCT06353971 Phase: Phase 1 Phase 2 Class: First-In-Class Modality: monoclonal antibody MoA: anti-ckIT mAb inhibitor Area: Immune System Diseases Indication: Chronic Inducible Urticaria Human Patients: 27 Sponsor: Jasper Therapeutics (JSPR)	Date: 31 Jul 2024 Quarter: Q3'24 Batch 21 Technical: SUCCESS (statistically significant clinical benefit in provocation threshold) Commercial: FAILURE (commercially insufficient clinical benefit in provocation threshold inferior to barzolvimab)	Readout: 14 Jun 2025 Lead Time: 318 days in advance Interpretation: briquilimab achieved 92% CR; which is slightly inferior to the 95% CR achieved by barzolvimab (see add'l link below)	Correct Prediction Conclusion: statistically significant and commercially insufficient (slightly inferior to barzolvimab) Classification: True Negative (TN)
968	Efgartigimod NCTID: NCT05523167 Phase: Phase 2 Phase 3 Class: First-In-Class	Date: 11 Jul 2024 Quarter: Q3'24 Batch 16 Technical: FAILURE (statistically insignificant additive clinical benefit)	Readout: 11 Jun 2025 Lead Time: 335 days in advance Interpretation: efgartigimod achieved 14.8 placebo-adjusted improvement	Correct Prediction Conclusion: statistically significant yet weak clinical benefit and commercially insufficient

Validated Trial Evidence: Filtered Registry (144 of 604 trials)

Filtered view: **Immunology**

#	Clinical Trial	Certified Prediction	Validation	Result
	Modality: antibody fragment biologic MoA: anti-FcRn antibody fragment Area: Immune System Diseases Indication: Active Idiopathic Inflammatory Myopathy Human Patients: 265 Sponsor: argenx (ARGX)	Commercial: FAILURE (commercially insufficient additive clinical benefit)	in mean TIS score (50.45 vs 35.65; P=0.0004); which is below the MCID threshold (>=20 point for TIS score)	Classification: True Negative (TN)
1351	Efgartigimod NCTID: NCT05817669 Phase: Phase 2 Class: First-In-Class Modality: antibody fragment biologic MoA: anti-FcRn antibody fragment Area: Immune System Diseases Indication: Primary Sjögren's Syndrome Human Patients: 34 Sponsor: argenx (ARGX)	Date: 30 Nov 2023 Quarter: Q1'24 Batch 4 Technical: partial SUCCESS (statistically maybe significant yet weak clinical benefit) Commercial: FAILURE (commercially insufficient clinical benefit)	Readout: 11 Jun 2025 Lead Time: 559 days in advance Interpretation: efgartigimod failed to achieve statistical significance in ESSDAI compared with placebo (-7.0 vs -4.0)	Correct Prediction Conclusion: statistically insignificant and commercially probably insufficient Classification: True Negative (TN)
436	treprostinil palmitil inhalation powder (TPIP) NCTID: NCT05147805 Phase: Phase 2 Class: First-In-Class Modality: small molecule MoA: synthetic prostacyclin analog Area: Respiratory Tract Diseases Indication: Pulmonary Arterial Hypertension Human Patients: 102 Sponsor: Insmem Incorporated (INSM)	Date: 1 Jan 2024 Quarter: Q1'24 Batch 12 Technical: SUCCESS (statistically significant clinical benefit) Commercial: SUCCESS (commercially sufficient clinical benefit)	Readout: 10 Jun 2025 Lead Time: 526 days in advance Interpretation: TPIP achieved a 35% placebo-adjusted reduction from baseline in pulmonary vascular resistance (PVR) and 35.5 meters placebo-adjusted improvement in 6MWD (p=0.003) at week 16; slightly superior to sotatercept's 33 meters placebo-adjusted improvement in 6MWD at week 16 (see add'l link below)	Correct Prediction Conclusion: statistically significant and commercially probably sufficient Classification: True Positive (TP)
1776	Navepegritide NCTID: NCT06433557 Phase: Phase 2 Class: Best-In-Class Modality: peptide MoA: long-lasting c-type natriuretic peptide Area: Musculoskeletal Diseases Indication: children with achondroplasia (ACH) Human Patients: 22 Sponsor: Ascendis Pharma (ASND)	Date: 29 Aug 2024 Quarter: Q4'24 Batch 15 Technical: SUCCESS (statistically significant additive clinical benefit in AGV against placebo) Commercial: SUCCESS (commercially sufficient additive clinical benefit in AGV at least numerically superior to vosoritide)	Readout: 9 Jun 2025 Lead Time: 284 days in advance Interpretation: navepegritide + lonapegsomatropin achieved 9.14cm/year mean AGV for treatment-naïve patients; superior to vosoritide's 4cm/year mean AGV for treatment-naïve patients (see add'l link below)	Correct Prediction Conclusion: statistically significant and commercially probably sufficient Classification: True Positive (TP)
1688	SCD-044 NCTID: NCT04566666 Phase: Phase 2 Class: First-In-Class Modality: small molecule MoA: highly selective second-gen S1PR1 agonist Area: Immune System Diseases Indication: Moderate to Severe Plaque Psoriasis Human Patients: 263 Sponsor: Sun Pharmaceutical (SUNPHARMA)	Date: 18 Jul 2024 Quarter: Q3'24 Batch 18 Technical: partial SUCCESS (statistically maybe significant yet weak clinical benefit in EASI90 against placebo) Commercial: FAILURE (commercially insufficient clinical benefit in PASI90 inferior to bimekizumab and non-superior to ustekinumab)	Readout: 2 Jun 2025 Lead Time: 319 days in advance Interpretation: SCD044 failed to achieve statistically significant clinical benefit in PASI75 compared with placebo; further development discontinued	Correct Prediction Conclusion: statistically insignificant and commercially insufficient Classification: True Negative (TN)
1687	SCD-044	Date: 18 Jul 2024 Quarter: Q3'24 Batch 18	Readout: 2 Jun 2025 Lead Time: 319 days in advance	Correct Prediction

Validated Trial Evidence: Filtered Registry (144 of 604 trials)

Filtered view: **Immunology**

#	Clinical Trial	Certified Prediction	Validation	Result
	NCTID: NCT04684485 Phase: Phase 2 Class: First-In-Class Modality: small molecule MoA: highly selective second-gen S1PR1 agonist Area: Skin and Connective Tissue Diseases Indication: Moderate to Severe Atopic Dermatitis Human Patients: 250 Sponsor: Sun Pharmaceutical (SUNPHARMA)	Technical: partial SUCCESS (statistically maybe significant yet weak clinical benefit in EASI75 against placebo) Commercial: FAILURE (commercially insufficient clinical benefit in EASI75 inferior to dupilumab and non-superior to baricitinib)	Interpretation: SCD044 failed to achieve statistically significant clinical benefit in EASI75 compared with placebo; further development discontinued	Conclusion: statistically insignificant and commercially insufficient Classification: True Negative (TN)
670	LYR210 NCTID: NCT05295459 Phase: Phase 3 Class: First-In-Class Modality: small molecule MoA: long-acting glucocorticoid receptor agonist Area: Respiratory Tract Diseases Indication: Chronic Rhinosinusitis Human Patients: 182 Sponsor: Lyra Therapeutics (LYRA)	Date: 27 Mar 2025 Quarter: Q2'25 Batch 13a Technical: partial SUCCESS (statistically maybe significant yet weak clinical benefit in 3CS compared with placebo) Commercial: FAILURE (commercially insufficient clinical benefit in 3CS)	Readout: 2 Jun 2025 Lead Time: 67 days in advance Interpretation: LYR210 achieved statistically significant clinical benefit in 3CS (-0.90; p=0.00209) and SNOT22 reduction (-8.7 p=0.0101) at week 24 in patients with/without nasal polyps; inferior to dupilumab's -14 placebo-adjusted SNOT22 reduction at week 24 (see add'l link below)	Correct Prediction Conclusion: statistically significant (yet weak efficacy) and commercially probably insufficient (inferior to dupilumab) Classification: True Negative (TN)
1823	KT621 NCTID: NCT06673667 Phase: Phase 1 Class: First-In-Class Modality: small molecule MoA: E3ligase-binding STAT6 degrader Area: Skin and Connective Tissue Diseases Indication: moderate-to-severe atopic dermatitis Human Patients: 120 Sponsor: Kymera Therapeutics (KYMR)	Date: 27 Mar 2025 Quarter: Q2'25 Batch 12b Technical: partial SUCCESS (statistically significant yet weak clinical benefit in EASI75 against placebo) Commercial: FAILURE (commercially insufficient clinical benefit in EASI75 at most slightly superior to dupilumab and inferior to upadacitinib)	Readout: 2 Jun 2025 Lead Time: 67 days in advance Interpretation: KT621 achieved median TARC reduction up to 37% at day 14; inferior to dupilumab's 55%-65% TARC reduction at day 14 (see add'l link below)	Correct Prediction Conclusion: statistically significant (yet weak efficacy) and commercially probably insufficient (inferior to dupilumab) Classification: True Negative (TN)
1884	Atacicept NCTID: NCT04716231 Phase: Phase 3 Class: First-In-Class Modality: fusion protein biologic MoA: recombinant fusion protein anti-BAFF and anti-APRIL inhibitor Area: Immune System Diseases Indication: IgA Nephropathy Human Patients: 376 Sponsor: Vera Therapeutics (VERA)	Date: 23 Jan 2025 Quarter: Q2'25 Batch 5 Technical: partial SUCCESS (statistically maybe significant yet moderate clinical benefit in UPCR compared with placebo inferior to budesonide/sparsentan/iptacopan) Commercial: FAILURE (commercially insufficient clinical benefit in eGFR inferior to budesonide/sparsentan/iptacopan)	Readout: 2 Jun 2025 Lead Time: 130 days in advance Interpretation: tacicept achieved 42% placebo-adjusted UPCR at week 36 (p<0.0001); slightly inferior to sparsentan's 45% placebo-adjusted UPCR at week 36 (using 5% UPCR reduction in the placebo group (see add'l link below); eGFR data pending)	Correct Prediction Conclusion: statistically significant (yet weak UPCR slightly inferior to sparsentan) and commercially TBD (eGFR data pending) Classification: True Negative (TN)
1981	Itepekimab NCTID: NCT04751487 Phase: Phase 3 Class: First-In-Class Modality: monoclonal antibody MoA: IgG4P anti-IL33 inhibitor Area: Respiratory Tract Diseases Indication: Chronic Obstructive Pulmonary Disease (COPD) Human Patients: 1239 Sponsor: Sanofi (SNY)	Date: 15 May 2024 Quarter: Q3'25 Batch 1 Technical: FAILURE (statistically insignificant additive clinical benefit to SoC in AECOPD/FEV1/TEAE compared with placebo) Commercial: FAILURE (commercially insufficient additive clinical benefit to SoC in AECOPD/FEV1/TEAE inferior to mepolizumab)	Readout: 30 May 2025 Lead Time: 380 days in advance Interpretation: Itepekimab (every four weeks) + SoC achieved a statistically insignificant 12% placebo-adjusted reduction in AECOPD and -7% placebo-adjusted reduction in TEAE at week 52 compared with SoC alone; strongly inferior to mepolizumab's 21% placebo-adjusted reduction in AECOPD and 3% placebo-adjusted reduction in TEAE at week 52 compared with SoC (see add'l	Correct Prediction Conclusion: statistically insignificant and commercially insufficient (strongly inferior to mepolizumab) Classification: True Negative (TN)

Validated Trial Evidence: Filtered Registry (144 of 604 trials)

Filtered view: **Immunology**

#	Clinical Trial	Certified Prediction	Validation	Result
			link below)	
1980	Itepekimab NCTID: NCT04701983 Phase: Phase 3 Class: First-In-Class Modality: monoclonal antibody MoA: IgG4P anti-IL33 inhibitor Area: Respiratory Tract Diseases Indication: Chronic Obstructive Pulmonary Disease (COPD) Human Patients: 1127 Sponsor: Sanofi (SNY)	Date: 18 Apr 2024 Quarter: Q3'25 Batch 1 Technical: FAILURE (statistically insignificant additive clinical benefit to SoC in AECOPD/FEV1/TEAE compared with placebo) Commercial: FAILURE (commercially insufficient additive clinical benefit to SoC in AECOPD/FEV1/TEAE inferior to mepolizumab)	Readout: 30 May 2025 Lead Time: 407 days in advance Interpretation: Itepekimab (every four weeks) + SoC achieved a statistically significant 21% placebo-adjusted reduction in AECOPD and 0% placebo-adjusted reduction in TEAE at week 52 compared with SoC alone; slightly inferior to mepolizumab's 21% placebo-adjusted reduction in AECOPD and 3% placebo-adjusted reduction in TEAE at week 52 compared with SoC alone (see add'l link below)	Correct Prediction Conclusion: statistically significant (yet weak efficacy) and commercially insufficient (slightly inferior to mepolizumab) Classification: True Negative (TN)
1214	Cibotercept (KER-012) NCTID: NCT05975905 Phase: Phase 2 Class: First-In-Class Modality: fusion protein biologic MoA: fusion protein modified ActRIIB/ACVR2B ligand trap Area: Respiratory Tract Diseases Indication: Pulmonary Arterial Hypertension (PAH) Human Patients: 113 Sponsor: Keros Therapeutics (KROS)	Date: 13 Dec 2024 Quarter: Q2'25 Batch 2 Technical: partial FAILURE (statistically maybe significant yet very weak additive clinical benefit in PVR with on-target toxicity) Commercial: partial FAILURE (commercially maybe sufficient yet very weak additive clinical benefit in 6MWD)	Readout: 29 May 2025 Lead Time: 167 days in advance Interpretation: cibotercept's further development has been discontinued probably due to insufficient benefit-risk profile	Correct Prediction Conclusion: statistically insignificant and commercially insufficient Classification: True Negative (TN)
1617	enpatoran (M5049) NCTID: NCT05162586 Phase: Phase 2 Class: First-In-Class Modality: small molecule MoA: TLR7/8 dual inhibitor Area: Immune System Diseases Indication: systemic lupus erythematosus (SLE) and cutaneous lupus erythematosus (CLE) Human Patients: 456 Sponsor: Merck KGaA (MKKGY)	Date: 14 May 2024 Quarter: Q3'24 Batch 10 Technical: SUCCESS (statistically significant additive clinical benefit in CLASI-A for CLE and BICLA for SLE) Commercial: SUCCESS (commercially sufficient additive clinical benefit in CLASI-A for CLE and BICLA for SLE)	Readout: 21 May 2025 Lead Time: 372 days in advance Interpretation: enpatoran has met the primary endpoint for both the CLE cohort (p=0.0002) and predefined subpopulations in the SLE cohort	Correct Prediction Conclusion: statistically significant and commercially sufficient Classification: True Positive (TP)
2021	PM359 NCTID: NCT06559176 Phase: Phase 1 Phase 2 Class: First-In-Class Modality: cell therapy MoA: prime-editor-mediated MCF1-delGT-mutation-corrected CD34+ autologous hematopoietic stem cells Area: Immune System Diseases Indication: Chronic Granulomatous Disease (CGD) Human Patients: 12 Sponsor: Prime Medicine (PRME)	Date: 13 May 2025 Quarter: Q3'25 Batch 8 Technical: SUCCESS (statistically significant clinical benefit in OS/infection frequency reduction/active infection resolution/GvHD/autoimmune process frequency/active autoimmune process resolution compared with placebo) Commercial: partial SUCCESS (commercially maybe sufficient yet moderate clinical benefit in OS/infection frequency reduction/active infection resolution/GvHD/autoimmune process frequency/active autoimmune process resolution non-superior to interferon gamma)	Readout: 19 May 2025 Lead Time: 6 days in advance Interpretation: PM359's further development has been discontinued probably due to insufficient benefit-risk profile	Correct Prediction Conclusion: statistically probably significant and commercially probably insufficient Classification: True Negative (TN)
1797	Soquelitinib NCTID: NCT06345404 Phase: Phase 1 Class: First-In-Class	Date: 10 Nov 2024 Quarter: Q1'25 Batch 10 Technical: SUCCESS (statistically significant clinical benefit in EASI75)	Readout: 8 May 2025 Lead Time: 179 days in advance Interpretation: soquelitinib achieved 63% placebo-adjusted EASI75 at	Correct Prediction Conclusion: statistically significant and commercially sufficient (non-inferior to upadacitinib)

Validated Trial Evidence: Filtered Registry (144 of 604 trials)

Filtered view: **Immunology**

#	Clinical Trial	Certified Prediction	Validation	Result
	Modality: small molecule MoA: anti-ITK inhibitor Area: Skin and Connective Tissue Diseases Indication: atopic dermatitis Human Patients: 64 Sponsor: Corvus Pharmaceuticals (CRVS)	against placebo) Commercial: partial SUCCESS (commercially maybe sufficient clinical benefit in EASI75 superior to adalimumab and non-inferior to upadacitinib)	week 4; superior to dupilumab nearly 40% placebo-adjusted EASI75 at week 16 (see add'l link below); and non-inferior to upadacitinib's nearly 60% placebo-adjusted EASI75 at week 24 (see 10.1016/S0140-6736(21)00588-2)	Classification: True Positive (TP)
1963	BREZTRI (PT010) NCTID: NCT04609904 Phase: Phase 3 Class: Best-In-Class Modality: small molecule MoA: triple-combination inhaler therapy of budesonide; glycopyrronium; and formoterol fumarate Area: Respiratory Tract Diseases Indication: Inadequately Controlled Severe Asthma Human Patients: 2187 Sponsor: AstraZeneca (AZN)	Date: 11 Apr 2025 Quarter: Q2'25 Batch 14d Technical: SUCCESS (statistically significant clinical benefit in FEV1 moderately superior to PT009/Symbicort) Commercial: SUCCESS (commercially sufficient clinical benefit in annualized rate of severe asthma exacerbation moderately superior to PT009/Symbicort; slightly superior to dupilumab; and non-superior-non-inferior to tezepelumab)	Readout: 2 May 2025 Lead Time: 21 days in advance Interpretation: BREZTRI achieved statistically significant improvement in annualized rate of severe asthma exacerbation; superior to the ICS/LABA SoC treatment	Correct Prediction Conclusion: statistically significant and commercially sufficient Classification: True Positive (TP)
1962	BREZTRI (PT010) NCTID: NCT04609878 Phase: Phase 3 Class: Best-In-Class Modality: small molecule MoA: triple-combination inhaler therapy of budesonide; glycopyrronium; and formoterol fumarate Area: Respiratory Tract Diseases Indication: Inadequately Controlled Severe Asthma Human Patients: 2274 Sponsor: AstraZeneca (AZN)	Date: 11 Apr 2025 Quarter: Q2'25 Batch 14d Technical: SUCCESS (statistically significant clinical benefit in FEV1 moderately superior to PT009/Symbicort) Commercial: SUCCESS (commercially sufficient clinical benefit in annualized rate of severe asthma exacerbation moderately superior to PT009/Symbicort; slightly superior to dupilumab; and non-superior-non-inferior to tezepelumab)	Readout: 2 May 2025 Lead Time: 21 days in advance Interpretation: BREZTRI achieved statistically significant improvement in annualized rate of severe asthma exacerbation; superior to the ICS/LABA SoC treatment	Correct Prediction Conclusion: statistically significant and commercially sufficient Classification: True Positive (TP)
1827	XmAb942 NCTID: NCT06619990 Phase: Phase 1 Phase 2 Class: Best-In-Class Modality: monoclonal antibody MoA: anti-TL1A inhibitor Area: Immune System Diseases Indication: Ulcerative Colitis Human Patients: 300 Sponsor: Xencor (XNCR)	Date: 22 Jan 2025 Quarter: Q2'25 Batch 4 Technical: SUCCESS (statistically significant yet moderate clinical benefit in MMS compared with placebo) Commercial: FAILURE (commercially insufficient clinical benefit in MMS inferior to PRA023/TEV574)	Readout: 29 Apr 2025 Lead Time: 97 days in advance Interpretation: XmAb942 achieved a half-life estimate of greater than 71 days and sufficient tolerability	Correct Prediction Conclusion: statistically significant (tolerability) and commercially TBD Classification: True Positive (TP)
1857	Amlitelimab NCTID: NCT06118099 Phase: Phase 2 Class: First-In-Class Modality: monoclonal antibody MoA: anti-OX40L inhibitor Area: Immune System Diseases Indication: Moderate to Severe Hidradenitis Suppurativa Human Patients: 90 Sponsor: Sanofi (SNY)	Date: 7 Dec 2024 Quarter: Q1'25 Batch 13 Technical: SUCCESS (statistically significant clinical benefit in HiSCR50 score against placebo) Commercial: FAILURE (commercially insufficient clinical benefit in HiSCR50 score non-superior to adalimumab/povorcitinib and inferior to SAR442970/sonelokimab/bimekizumab/secukinumab)	Readout: 24 Apr 2025 Lead Time: 138 days in advance Interpretation: amlitelimab's HiSCR50 is inferior to brivekimig (SAR442970)'s HiSCR50; so amlitelimab further development is discontinued	Correct Prediction Conclusion: statistically significant and commercially insufficient Classification: True Negative (TN)
1973	Balinatunfib NCTID: NCT06073119 Phase: Phase 2 Class: Best-In-Class Modality: small molecule MoA: TNFalpha inhibitor	Date: 18 Apr 2025 Quarter: Q3'25 Batch 1 Technical: partial SUCCESS (statistically significant yet moderate clinical benefit in PASI75 compared with placebo)	Readout: 24 Apr 2025 Lead Time: 6 days in advance Interpretation: balinatunfib failed to achieve the primary endpoint of PASI75 at week 12	Correct Prediction Conclusion: statistically insignificant and commercially insufficient Classification: True Negative (TN)

Validated Trial Evidence: Filtered Registry (144 of 604 trials)

Filtered view: **Immunology**

#	Clinical Trial	Certified Prediction	Validation	Result
	Area: Immune System Diseases Indication: moderate to severe plaque psoriasis Human Patients: 221 Sponsor: Sanofi (SNY)	Commercial: FAILURE (commercially insufficient clinical benefit in PASI75/PASI90 moderately inferior to bimekizumab/ixekizumab and slightly inferior to icotrokinra)		
1757	Amltelimab NCTID: NCT05421598 Phase: Phase 2 Class: First-In-Class Modality: monoclonal antibody MoA: anti-OX40L inhibitor Area: Respiratory Tract Diseases Indication: Moderate-to-severe Asthma Human Patients: 446 Sponsor: Sanofi (SNY)	Date: 19 Aug 2024 Quarter: Q4'24 Batch 12 Technical: SUCCESS (statistically significant additive clinical benefit in annualized rate of severe exacerbation) Commercial: SUCCESS (commercially sufficient additive clinical benefit in FEV1/ACQ5)	Readout: 14 Apr 2025 Lead Time: 238 days in advance Interpretation: amltelimab failed to meet the primary endpoint of annualized exacerbation rate at week 48	Missed Prediction Note: due to suboptimal disease modelling of asthma not uncontrollable by background therapies that have ... Conclusion: statistically insignificant and commercially insufficient Classification: False Positive (FP)
847	Itolizumab NCTID: NCT05263999 Phase: Phase 3 Class: First-In-Class Modality: monoclonal antibody MoA: anti-CD6 inhibitor Area: Immune System Diseases Indication: Acute Graft Versus Host Disease (aGVHD) Human Patients: 158 Sponsor: Equillum (EQ)	Date: 18 Feb 2024 Quarter: Q2'24 Batch 7 Technical: SUCCESS (statistically significant yet moderate additive clinical benefit) Commercial: partial SUCCESS (commercially maybe sufficient additive clinical benefit)	Readout: 27 Mar 2025 Lead Time: 403 days in advance Interpretation: itolizumab + corticosteroids met several key secondary endpoints (CR) at day 99 yet failed to meet primary endpoint (CR) at day 29 compared with corticosteroids monotherapy	Correct Prediction Conclusion: statistically partially significant and commercially maybe sufficient Classification: True Negative (TN)
1814	MRT-6160 NCTID: NCT06597799 Phase: Phase 1 Class: First-In-Class Modality: molecular glue degrader MoA: anti-VAV1 molecular glue degrader Area: Immune System Diseases Indication: autoimmune diseases Human Patients: 76 Sponsor: Monte Rosa Therapeutics (GLUE)	Date: 3 Nov 2024 Quarter: Q1'25 Batch 4 Technical: SUCCESS (statistically significant clinical benefit against placebo for certain treatment-naïve and treatment-refractory autoimmune diseases) Commercial: SUCCESS (commercially sufficient clinical benefit for certain treatment-naïve and treatment-refractory autoimmune diseases superior to the corresponding SoCs)	Readout: 20 Mar 2025 Lead Time: 137 days in advance Interpretation: MRT6160 achieved >90% VAV1 degradation	Correct Prediction Conclusion: statistically significant (safety) and commercially TBD Classification: True Positive (TP)
1166	Batoclimab NCTID: NCT05581199 Phase: Phase 2 Class: Best-In-Class Modality: monoclonal antibody MoA: anti-FcRn mAb inhibitor Area: Immune System Diseases Indication: Active Chronic Inflammatory Demyelinating Polyneuropathy (CIDP) Human Patients: 277 Sponsor: Immunovant Sciences (IMVT)	Date: 19 Oct 2024 Quarter: Q1'25 Batch 2 Technical: SUCCESS (statistically significant clinical benefit) Commercial: partial SUCCESS (commercially maybe sufficient clinical benefit non-superior to efgartigimod)	Readout: 19 Mar 2025 Lead Time: 151 days in advance Interpretation: batoclimab achieved 81% responder rate at week 12 for patients whose IgG was >70%; whereas efgartigimod achieved 67% responder rate at week 12 for all patients regardless of IgG reduction levels; no plan to seek regulatory approval for marketing batoclimab	Correct Prediction Conclusion: statistically significant and commercially maybe sufficient Classification: True Negative (TN)
1162	Batoclimab NCTID: NCT05403541 Phase: Phase 3 Class: Best-In-Class Modality: monoclonal antibody MoA: anti-FcRn mAb inhibitor Area: Immune System Diseases Indication: generalized myasthenia gravis (gMG) Human Patients: 240	Date: 19 Oct 2024 Quarter: Q1'25 Batch 2 Technical: SUCCESS (statistically significant clinical benefit) Commercial: partial SUCCESS (commercially maybe sufficient clinical benefit non-superior to efgartigimod)	Readout: 19 Mar 2025 Lead Time: 151 days in advance Interpretation: batoclimab achieved 2 placebo-adjusted MG-ADL score reduction at week 12 ($p < 0.001$); numerically superior to efgartigimod's 1.6-1.7 placebo-adjusted MG-ADL score reduction at week 8-11 (see add'l link below) no plan to seek regulatory approval for marketing	Correct Prediction Conclusion: statistically significant and commercially maybe sufficient Classification: True Negative (TN)

Validated Trial Evidence: Filtered Registry (144 of 604 trials)

Filtered view: **Immunology**

#	Clinical Trial	Certified Prediction	Validation	Result
	Sponsor: Immunovant Sciences (IMVT)		batoclimab	
1811	Povorcitinib (INC054707) NCTID: NCT05620836 Phase: Phase 3 Class: Best-In-Class Modality: small molecule MoA: JAK1 inhibitor Area: Immune System Diseases Indication: Moderate to Severe Hidradenitis Suppurativa Human Patients: 619 Sponsor: Incyte Corporation (INCY)	Date: 26 Oct 2024 Quarter: Q1'25 Batch 3 Technical: SUCCESS (statistically significant yet moderate clinical benefit in HiSCR50 score against placebo) Commercial: FAILURE (commercially insufficient clinical benefit in HiSCR50 score non-superior to adalimumab and inferior to sonelokimab/bimekizumab/secukinumab)	Readout: 17 Mar 2025 Lead Time: 142 days in advance Interpretation: povorcitinib has achieved a 13.7% placebo-adjusted HiSCR50; non-superior to 15.6%-31.3% placebo-adjusted HiSCR50 achieved by adalimumab (DOI-10.1056/NEJMoa1504370) and inferior to 22% placebo-adjusted HiSCR50 achieved by bimekizumab (see add'l link below)	Correct Prediction Conclusion: statistically significant yet commercially insufficient Classification: True Negative (TN)
1810	Povorcitinib (INC054707) NCTID: NCT05620823 Phase: Phase 3 Class: Best-In-Class Modality: small molecule MoA: JAK1 inhibitor Area: Immune System Diseases Indication: Moderate to Severe Hidradenitis Suppurativa Human Patients: 608 Sponsor: Incyte Corporation (INCY)	Date: 26 Oct 2024 Quarter: Q1'25 Batch 3 Technical: SUCCESS (statistically significant yet moderate clinical benefit in HiSCR50 score against placebo) Commercial: FAILURE (commercially insufficient clinical benefit in HiSCR50 score non-superior to adalimumab and inferior to sonelokimab/bimekizumab/secukinumab)	Readout: 17 Mar 2025 Lead Time: 142 days in advance Interpretation: povorcitinib has achieved a 10.9% placebo-adjusted HiSCR50; non-superior to 15.6%-31.3% placebo-adjusted HiSCR50 achieved by adalimumab (DOI-10.1056/NEJMoa1504370) and inferior to 22% placebo-adjusted HiSCR50 achieved by bimekizumab (see add'l link below)	Correct Prediction Conclusion: statistically significant yet commercially insufficient Classification: True Negative (TN)
1000	AOC1044 (del-zota) NCTID: NCT05670730 Phase: Phase 1 Phase 2 Class: Best-In-Class Modality: antibody-conjugated antisense oligonucleotide ASO MoA: antibody-oligonucleotide conjugate that binds the transferrin receptor 1 (TfR1) to deliver a PMO into muscle cells; inducing exon 44 skip restoring functional dystrophin synthesis Area: Musculoskeletal Diseases Indication: Duchenne Muscular Dystrophy (DMD) Human Patients: 70 Sponsor: Avidity Biosciences (RNA)	Date: 7 Jul 2024 Quarter: Q3'24 Batch 13 Technical: SUCCESS (statistically significant clinical benefit in dystrophin protein level) Commercial: FAILURE (commercially insufficient clinical benefit in the registrational endpoint 6MWD non-superior and non-inferior to DYNE251 or SRP5051)	Readout: 17 Mar 2025 Lead Time: 253 days in advance Interpretation: del-zota achieved a statistically significant increase of 25% dystrophin production and 40% in exon 44 skipping; 6MWD data immature	Correct Prediction Conclusion: statistically significant (dystrophin) and commercially TBD (6MWD) Classification: True Positive (TP)
794	ARO-C3 NCTID: NCT05083364 Phase: Phase 1 Phase 2 Class: First-In-Class Modality: small interfering RNA (siRNA) antisense oligonucleotide MoA: siRNA-GalNAc conjugate that suppresses APOC3 mRNA Area: Immune System Diseases Indication: IgA nephropathy Human Patients: 62 Sponsor: Arrowhead Pharmaceuticals (ARWR)	Date: 14 Feb 2024 Quarter: Q4'24 Batch 6 Technical: SUCCESS (statistically significant clinical benefit) Commercial: SUCCESS (commercially sufficient clinical benefit)	Readout: 10 Mar 2025 Lead Time: 390 days in advance Interpretation: ARO-C3 achieved 87% C3 reduction; 89% UPCR reduction at week 24 without SAEs	Correct Prediction Conclusion: statistically probably significant and commercially TBD (pending eGFR data) Classification: True Positive (TP)
1869	icotrokinra (JNJ-2113) NCTID: NCT06049017 Phase: Phase 2 Class: First-In-Class	Date: 14 Jan 2025 Quarter: Q2'25 Batch 1 Technical: FAILURE (statistically insignificant clinical benefit in clinical	Readout: 10 Mar 2025 Lead Time: 55 days in advance Interpretation: icotrokinra achieved 20.1% placebo-adjusted clinical	Correct Prediction Conclusion: statistically significant and commercially insufficient (inferior to PRA023)

Validated Trial Evidence: Filtered Registry (144 of 604 trials)

Filtered view: **Immunology**

#	Clinical Trial	Certified Prediction	Validation	Result
	Modality: peptide MoA: anti-IL23R antagonist Area: Immune System Diseases Indication: Moderately to Severely Active Ulcerative Colitis Human Patients: 252 Sponsor: Johnson & Johnson / Protagonist Therapeutics (JNJ / PTGX)	response/remission compared with placebo) Commercial: FAILURE (commercially insufficient clinical benefit in clinical response/remission)	remission rate at week 12 ($p < 0.001$); inferior to PRA023 (tulisokibart) that achieved 25% placebo-adjusted clinical remission rate at week 12 for UC patients (see add'l link below)	Classification: True Negative (TN)
1860	Rocatinlimab NCTID: NCT05724199 Phase: Phase 3 Class: First-In-Class Modality: monoclonal antibody MoA: anti-OX40 inhibitor Area: Skin and Connective Tissue Diseases Indication: Moderate-to-sever Atopic Dermatitis Human Patients: 746 Sponsor: Amgen (AMGN)	Date: 7 Dec 2024 Quarter: Q1'25 Batch 13 Technical: SUCCESS (statistically significant additive clinical benefit in vIGA-AD/EASI75 against placebo with positive dose-response relationship) Commercial: partial SUCCESS (commercially sufficient yet moderate additive clinical benefit in vIGA-AD/ EASI75 (higher dose); superior to dupilumab +TCS/TCI yet inferior to upadacitinib +TCS/TCI)	Readout: 8 Mar 2025 Lead Time: 91 days in advance Interpretation: rocatinlimab (low dose) achieved 30.4% placebo-adjusted EASI75 at week 24; inferior to dupilumab nearly 40% placebo-adjusted EASI75 at week 16 (see 10.1056/NEJMoa1610020); and inferior to upadacitinib's nearly 60% placebo-adjusted EASI75 at week 24 (see add'l link below)	Correct Prediction Conclusion: statistically significant and commercially maybe sufficient (inferior to upadacitinib) Classification: True Negative (TN)
1859	Rocatinlimab NCTID: NCT05398445 Phase: Phase 3 Class: First-In-Class Modality: monoclonal antibody MoA: anti-OX40 inhibitor Area: Skin and Connective Tissue Diseases Indication: Moderate-to-sever Atopic Dermatitis Human Patients: 769 Sponsor: Amgen (AMGN)	Date: 7 Dec 2024 Quarter: Q1'25 Batch 13 Technical: SUCCESS (statistically significant clinical benefit in vIGA-AD/EASI75 against placebo with positive dose-response relationship) Commercial: partial SUCCESS (commercially sufficient yet moderate clinical benefit in vIGA-AD/ EASI75 (higher dose); superior to dupilumab yet inferior to upadacitinib)	Readout: 8 Mar 2025 Lead Time: 91 days in advance Interpretation: rocatinlimab achieved 29.5% placebo-adjusted EASI75 at week 24; inferior to upadacitinib's nearly 60% placebo-adjusted EASI75 at week 24 (see add'l link below)	Correct Prediction Conclusion: statistically significant and commercially maybe insufficient (inferior to upadacitinib) Classification: True Negative (TN)
1558	PGN-EDODM1 NCTID: NCT06204809 Phase: Phase 1 Class: First-In-Class Modality: peptide-conjugated antisense oligonucleotide ASO MoA: anti-DMPK-CUG-repeats-specific oligonucleotide Area: Musculoskeletal Diseases Indication: Myotonic Dystrophy Type 1 Human Patients: 32 Sponsor: PepGen (PEPG)	Date: 24 Apr 2024 Quarter: Q3'24 Batch 2 Technical: SUCCESS (statistically significant clinical benefit in spliceopathy) Commercial: partial SUCCESS (commercially maybe sufficient yet weak clinical benefit with superior-to-AOC1001 efficacy in terms of vHOT and muscle strength despite non-superior-to-AOC1001 toxicity)	Readout: 24 Feb 2025 Lead Time: 306 days in advance Interpretation: PGN-EDODM1 achieved 29.1% mean splicing correction without improved functional outcomes at day 28 (trends only)	Correct Prediction Conclusion: statistically significant (splicing correction) and commercially maybe sufficient yet weak (functional outcome) Classification: True Negative (TN)
1388	Rosnilimab NCTID: NCT06041269 Phase: Phase 2 Class: First-In-Class Modality: monoclonal antibody MoA: PD1 mAb agonist Area: Immune System Diseases Indication: Rheumatoid Arthritis Human Patients: 420 Sponsor: AnaptysBio (ANAB)	Date: 14 Nov 2024 Quarter: Q1'25 Batch 3 Technical: FAILURE (statistically insignificant clinical benefit) Commercial: FAILURE (commercially insufficient clinical benefit)	Readout: 12 Feb 2025 Lead Time: 90 days in advance Interpretation: rosnilimab failed to achieve statistical significance in placebo-adjusted ACR50/ACR70 at week 12; inferior to upadacitinib that achieved 28% placebo-adjusted ACR50 and 21% placebo-adjusted ACR70 at week 12 (see add'l link below)	Correct Prediction Conclusion: statistically insignificant (ACR50 at week 12 as the prespecified efficacy endpoint) and commercially insufficient Classification: True Negative (TN)
1631	iscalimab (CFZ533) NCTID: NCT0390552 Phase: Phase 2 Class: First-In-Class Modality: monoclonal antibody	Date: 1 Jul 2024 Quarter: Q3'24 Batch 14 Technical: FAILURE (statistically insignificant clinical benefit in ESSDAI or ESSPRI)	Readout: 31 Jan 2025 Lead Time: 214 days in advance Interpretation: iscalimab in cohort 1 failed to achieve statistical significance in dose-response	Correct Prediction Conclusion: statistically partially insignificant (cohort 1) and commercially insufficient (cohort 2)

Validated Trial Evidence: Filtered Registry (144 of 604 trials)

Filtered view: **Immunology**

#	Clinical Trial	Certified Prediction	Validation	Result
	MoA: anti-CD40 inhibitor Area: Immune System Diseases Indication: Sjogren's Syndrome Human Patients: 273 Sponsor: Novartis (NVS)	Commercial: FAILURE (commercially insufficient clinical benefit in ESSDAI or ESSPRI inferior to efgartigimod that's further inferior to rituximab)	relationship for ESSDAI in 3/4 models; iscalimab 600mg in cohort 2 failed to achieve statistical significance in ESSPRI improvement compared with placebo (p=0.12). Hence; iscalimab hasn't met the efficacy threshold and further development discontinued	Classification: True Negative (TN)
1632	LNA043 NCTID: NCT04864392 Phase: Phase 2 Class: First-In-Class Modality: small molecule MoA: ANGPTL3 agonist Area: Immune System Diseases Indication: Knee Osteoarthritis Human Patients: 583 Sponsor: Novartis (NVS)	Date: 1 Jul 2024 Quarter: Q3'24 Batch 14 Technical: partial SUCCESS (statistically maybe significant yet very weak clinical benefit in medial knee cartilage thickness at week 104) Commercial: FAILURE (commercially insufficient clinical benefit inferior to semaglutide in WOMAC pain or 6MWD at week 104)	Readout: 31 Jan 2025 Lead Time: 214 days in advance Interpretation: LNA043 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)
1633	LNA043 NCTID: NCT04814368 Phase: Phase 2 Class: First-In-Class Modality: small molecule MoA: ANGPTL3 agonist Area: Immune System Diseases Indication: Knee Osteoarthritis Human Patients: 23 Sponsor: Novartis (NVS)	Date: 1 Jul 2024 Quarter: Q3'24 Batch 14 Technical: partial SUCCESS (statistically maybe significant yet very weak additive clinical benefit in cartilage volume or KOOS) Commercial: FAILURE (commercially insufficient additive clinical benefit)	Readout: 31 Jan 2025 Lead Time: 214 days in advance Interpretation: LNA043 + canakinumab 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)
1813	AK006 NCTID: NCT06072157 Phase: Phase 1 Class: First-In-Class Modality: monoclonal antibody MoA: anti-SIGLEC6 inhibitor Area: Immune System Diseases Indication: Chronic Spontaneous Urticaria Human Patients: 136 Sponsor: Allakos (ALLK)	Date: 3 Nov 2024 Quarter: Q1'25 Batch 4 Technical: FAILURE (statistically insignificant clinical benefit in UAS7/ISS7 against placebo) Commercial: FAILURE (commercially insufficient clinical benefit in UAS7/ISS7 inferior to barzolvolimab)	Readout: 27 Jan 2025 Lead Time: 85 days in advance Interpretation: AK006 failed to demonstrate therapeutic efficacy and further developments discontinued	Correct Prediction Conclusion: statistically insignificant and commercially insufficient Classification: True Negative (TN)
1808	Imvotamab NCTID: NCT06524687 Phase: Phase 1 Class: First-In-Class Modality: bispecific antibody MoA: anti-CD3 anti-CD20 T-cell engager Area: Musculoskeletal Diseases Indication: Idiopathic Inflammatory Myopathies Human Patients: 2 Sponsor: IGM Biosciences (IGMS)	Date: 26 Oct 2024 Quarter: - Batch - Technical: FAILURE (statistically maybe significant yet very weak clinical benefit in MMT8 against placebo) Commercial: FAILURE (commercially insufficient clinical benefit in MMT8)	Readout: 9 Jan 2025 Lead Time: 75 days in advance Interpretation: Imvotamab failed to demonstrate sufficient efficacy and further development discontinued accordingly	Correct Prediction Conclusion: statistically insignificant and commercially insufficient Classification: True Negative (TN)
1807	Imvotamab NCTID: NCT06041568 Phase: Phase 1 Class: First-In-Class Modality: bispecific antibody MoA: anti-CD3 anti-CD20 T-cell engager Area: Immune System Diseases Indication: Severe Systemic Lupus Erythematosus Human Patients: 17	Date: 26 Oct 2024 Quarter: - Batch - Technical: FAILURE (statistically maybe significant yet very weak clinical benefit in BICLA/SRI4 against placebo) Commercial: FAILURE (commercially insufficient clinical benefit in BICLA/SRI4)	Readout: 9 Jan 2025 Lead Time: 75 days in advance Interpretation: Imvotamab failed to demonstrate sufficient efficacy and further development discontinued accordingly	Correct Prediction Conclusion: statistically insignificant and commercially insufficient Classification: True Negative (TN)

Validated Trial Evidence: Filtered Registry (144 of 604 trials)

Filtered view: **Immunology**

#	Clinical Trial	Certified Prediction	Validation	Result
	Sponsor: IGM Biosciences (IGMS)			
1806	Imvotamab NCTID: NCT06087406 Phase: Phase 1 Class: First-In-Class Modality: bispecific antibody MoA: anti-CD3 anti-CD20 T-cell engager Area: Immune System Diseases Indication: Moderate to Severe Rheumatoid Arthritis Human Patients: 33 Sponsor: IGM Biosciences (IGMS)	Date: 26 Oct 2024 Quarter: Q1'25 Batch 2 Technical: FAILURE (statistically maybe significant yet very weak clinical benefit in DAS28-CRP or ACR20 against placebo) Commercial: FAILURE (commercially insufficient clinical benefit in DAS28-CRP or ACR20)	Readout: 9 Jan 2025 Lead Time: 75 days in advance Interpretation: Imvotamab failed to demonstrate sufficient efficacy and further development discontinued accordingly	Correct Prediction Conclusion: statistically insignificant and commercially insufficient Classification: True Negative (TN)
1711	Briquilimab NCTID: NCT06162728 Phase: Phase 1 Phase 2 Class: First-In-Class Modality: monoclonal antibody MoA: anti-ckIT mAb inhibitor Area: Immune System Diseases Indication: Chronic Spontaneous Urticaria Human Patients: 80 Sponsor: Jasper Therapeutics (JSPR)	Date: 31 Jul 2024 Quarter: Q3'24 Batch 21 Technical: SUCCESS (statistically significant clinical benefit in UAS7) Commercial: FAILURE (commercially insufficient clinical benefit in UAS7 inferior to barzolvolimab)	Readout: 8 Jan 2025 Lead Time: 161 days in advance Interpretation: briquilimab highest dose 180mg Q8W achieved 21% placebo-adjusted CR at week 12 vs. 31% placebo-adjusted CR at week 12 achieved by barzolvolimab highest dose in NCT05368285 vs 27% placebo-adjusted CR at week 12 achieved by omalizumab in ASTERIA I study (DOI-0.1038/jid.2014.306)	Correct Prediction Conclusion: statistically significant and commercially insufficient (inferior to both omalizumab and barzolvolimab) Classification: True Negative (TN)
1449	daxdilimab NCTID: NCT05368103 Phase: Phase 2 Class: First-In-Class Modality: monoclonal antibody MoA: anti-ILT7 inhibitor Area: Skin and Connective Tissue Diseases Indication: Alopecia Areata Human Patients: 30 Sponsor: Amgen (AMGN)	Date: 5 Feb 2024 Quarter: Q1'24 Batch 17 Technical: FAILURE (statistically insignificant clinical benefit) Commercial: FAILURE (commercially insufficient clinical benefit)	Readout: 7 Jan 2025 Lead Time: 337 days in advance Interpretation: daxdilimab achieved 13.3% SALT20 response at week 24; which would be inferior to ritlectinib that achieved 29.1% placebo-adjusted SALT20 response at week 24 (see the add'l link below); Further development has been discontinued	Correct Prediction Conclusion: statistically probably insignificant (no placebo arm) and commercially insufficient Classification: True Negative (TN)
1701	duvakitug (TEV'574/SAR447189) NCTID: NCT05499130 Phase: Phase 2 Class: Best-In-Class Modality: monoclonal antibody MoA: anti-TL1A mAb inhibitor Area: Immune System Diseases Indication: Severe Ulcerative Colitis and Crohn's Disease Human Patients: 290 Sponsor: Teva Pharmaceuticals / Sanofi (TEVA / SNY)	Date: 27 Jul 2024 Quarter: Q4'24 Batch 11 Technical: SUCCESS (statistically significant clinical benefit in clinical remission and endoscopic response against placebo) Commercial: SUCCESS (commercially sufficient clinical benefit in clinical remission and endoscopic response non-superior and non-inferior to PRA023)	Readout: 17 Dec 2024 Lead Time: 143 days in advance Interpretation: duvakitug (high-dose) achieved 27.4% placebo-adjusted clinical remission rate at week 14 (p=0.003) for UC patients; numerically superior to PRA023 that achieved 25% placebo-adjusted clinical remission rate at week 12 for UC patients; duvakitug (high-dose) achieved 34.8% placebo-adjusted clinical remission rate at week 14 (p<0.001) for CD patients; numerically superior to PRA023 that achieved 33.1% placebo-adjusted clinical remission rate at week 12 for CD patients (see add'l link below)	Correct Prediction Conclusion: statistically significant and commercially sufficient Classification: True Positive (TP)
1719	LYT100 NCTID: NCT05321420 Phase: Phase 2 Class: Best-In-Class Modality: deuterated formulation MoA: a deuterated form of pifrenidone Area: Respiratory Tract Diseases Indication: Idiopathic Pulmonary	Date: 6 Aug 2024 Quarter: Q4'24 Batch 3 Technical: partial SUCCESS (statistically maybe significant yet weak clinical benefit in FVC against placebo) Commercial: FAILURE (commercially insufficient clinical benefit in FVC)	Readout: 16 Dec 2024 Lead Time: 132 days in advance Interpretation: LYT100 550mg TID (equivalent to the approved pifrenidone 801 mg TID) achieved a 1.62% placebo-adjusted improvement in FVCpp; at least numerically inferior to the SoC (pifrenidone 801mg TID) that achieved a 1.97%	Correct Prediction Conclusion: statistically significant yet weak (in FVCpp) and commercially insufficient (inferior to pifrenidone); Classification: True Negative (TN)

Validated Trial Evidence: Filtered Registry (144 of 604 trials)

Filtered view: **Immunology**

#	Clinical Trial	Certified Prediction	Validation	Result
	Fibrosis Human Patients: 240 Sponsor: PureTech (PRTC)	inferior to pirfenidone)	placebo-adjusted improvement in FVCpp	
1251	Sevasemten (EDG-5506) NCTID: NCT05291091 Phase: Phase 2 Class: First-In-Class Modality: small molecule MoA: oral selective fast skeletal muscle myosin inhibitor Area: Musculoskeletal Diseases Indication: Becker Muscular Dystrophy Human Patients: 170 Sponsor: Edgewise Therapeutics (EWTX)	Date: 6 Aug 2024 Quarter: Q4'24 Batch 2 Technical: SUCCESS (statistically significant clinical benefit in TNNI2) Commercial: FAILURE (commercially insufficient clinical benefit in either NSAA or 6MWD)	Readout: 16 Dec 2024 Lead Time: 132 days in advance Interpretation: sevasemten achieved 77% reduction in plasma TNNI2 ($p < 0.001$); sevasemten failed to achieve statistically significant improvement in NSAA ($p = 0.16$).	Correct Prediction Conclusion: statistically significant (TNNI2) and commercially insufficient (NSAA) Classification: True Negative (TN)
1387	ANB032 NCTID: NCT05935085 Phase: Phase 2 Class: First-In-Class Modality: monoclonal antibody MoA: anti-BTLA mAb agonist Area: Skin and Connective Tissue Diseases Indication: Atopic Dermatitis Human Patients: 160 Sponsor: AnaptysBio (ANAB)	Date: 30 Aug 2024 Quarter: Q4'24 Batch 15 Technical: partial SUCCESS (statistically significant yet weak clinical benefit in EASI75) Commercial: FAILURE (commercially insufficient clinical benefit in EASI75 non-superior to dupilumab inferior to upadacitinib/NM26)	Readout: 11 Dec 2024 Lead Time: 103 days in advance Interpretation: ANB032 failed to achieve achieved statistical significance in placebo-adjusted EASI75 at week 14	Correct Prediction Conclusion: statistically insignificant and commercially insufficient Classification: True Negative (TN)
1716	Bempikibart (ADX-914) NCTID: NCT06018428 Phase: Phase 2 Class: First-In-Class Modality: monoclonal antibody MoA: anti-IL7Ralpha mAb inhibitor Area: Skin and Connective Tissue Diseases Indication: Severe Alopecia Acreata Human Patients: 40 Sponsor: Q32 Bio (QTTB)	Date: 14 Aug 2024 Quarter: Q4'24 Batch 1 Technical: FAILURE (statistically insignificant clinical benefit in SALT score against placebo) Commercial: FAILURE (commercially insufficient clinical benefit in SALT score inferior to baricitinib)	Readout: 10 Dec 2024 Lead Time: 118 days in advance Interpretation: bempikibart probably failed to achieve statistical significance in the primary efficacy endpoint SALT score at week 24 (16% vs 2% placebo with a $p = 0.045$ after excluding three placebo patients)	Correct Prediction Conclusion: statistically probably significant and commercially probably insufficient Classification: True Negative (TN)
1715	Bempikibart (ADX-914) NCTID: NCT05509023 Phase: Phase 2 Class: First-In-Class Modality: monoclonal antibody MoA: anti-IL7Ralpha mAb inhibitor Area: Skin and Connective Tissue Diseases Indication: Atopic Dermatitis Human Patients: 102 Sponsor: Q32 Bio (QTTB)	Date: 14 Aug 2024 Quarter: Q4'24 Batch 1 Technical: FAILURE (statistically insignificant clinical benefit in EASI75 against placebo) Commercial: FAILURE (commercially insufficient clinical benefit in EASI75 inferior to dupilumab)	Readout: 10 Dec 2024 Lead Time: 118 days in advance Interpretation: bempikibart failed to achieve statistical significance in the primary efficacy endpoint EASI at week 14	Correct Prediction Conclusion: statistically insignificant and commercially insufficient Classification: True Negative (TN)
1763	Namilumab NCTID: NCT05314517 Phase: Phase 2 Class: First-In-Class Modality: monoclonal antibody MoA: anti-GM-CSF mAb inhibitor Area: Respiratory Tract Diseases Indication: Chronic Pulmonary Sarcoidosis Human Patients: 107	Date: 21 Aug 2024 Quarter: Q4'24 Batch 13 Technical: partial SUCCESS (statistically maybe significant yet weak clinical benefit in sarcoidosis worsening against placebo) Commercial: FAILURE (commercially insufficient clinical benefit in sarcoidosis worsening inferior to oral corticosteroid)	Readout: 3 Dec 2024 Lead Time: 104 days in advance Interpretation: namilumab failed to achieve the primary efficacy endpoint	Correct Prediction Conclusion: statistically insignificant and commercially insufficient Classification: True Negative (TN)

Validated Trial Evidence: Filtered Registry (144 of 604 trials)

Filtered view: **Immunology**

#	Clinical Trial	Certified Prediction	Validation	Result
	Sponsor: Roivant Sciences (ROIV)			
1752	linerixibat NCTID: NCT04950127 Phase: Phase 3 Class: Best-In-Class Modality: small molecule MoA: ASBT/IBAT inhibitor Area: Immune System Diseases Indication: Cholestatic Pruritus (CP) Human Patients: 238 Sponsor: GSK (GSK)	Date: 13 Aug 2024 Quarter: Q4'24 Batch 7 Technical: partial SUCCESS (statistically maybe significant yet moderate clinical benefit in cholestatic pruritus against placebo) Commercial: partial SUCCESS (commercially maybe sufficient clinical benefit in cholestatic pruritus non-superior non-inferior to odevixibat/volixibat)	Readout: 19 Nov 2024 Lead Time: 98 days in advance Interpretation: linerixibat achieved the primary endpoint of itch score reduction at week 24 (no specific data or p-value disclosed)	Correct Prediction Conclusion: statistically significant and commercially maybe sufficient Classification: True Positive (TP)
1562	Dapirolizumab Pegol NCTID: NCT04294667 Phase: Phase 3 Class: First-In-Class Modality: fab biologic MoA: anti-CD40L PEGylated fab Area: Immune System Diseases Indication: Systemic Lupus Erythematosus (SLE) Human Patients: 321 Sponsor: UCB SA (UCB)	Date: 26 Apr 2024 Quarter: Q3'24 Batch 3 Technical: partial SUCCESS (statistically maybe significant yet weak additive clinical benefit) Commercial: FAILURE (commercially insufficient additive clinical benefit)	Readout: 19 Nov 2024 Lead Time: 207 days in advance Interpretation: dapirolizumab achieved 14.9% placebo-adjusted BICLA at week 48 as an add-on the SoC (p=0.011) yet the key secondary endpoint BICLA at week 24 not met (usually BICLA at week 24 is the primary efficacy endpoint).	Correct Prediction Conclusion: statistically insignificant (in BICLA at week 24) and commercially insufficient Classification: True Negative (TN)
1584	INCB000262 (EP262) NCTID: NCT06077773 Phase: Phase 2 Class: First-In-Class Modality: small molecule MoA: MRGPRX2 antagonist Area: Immune System Diseases Indication: chronic spontaneous urticaria (CSU) Human Patients: 154 Sponsor: Incyte Corporation (INCY)	Date: 28 Apr 2024 Quarter: Q3'24 Batch 16 Technical: FAILURE (statistically insignificant clinical benefit) Commercial: FAILURE (commercially insufficient clinical benefit with inferior-to-barzolvolimab efficacy)	Readout: 18 Nov 2024 Lead Time: 204 days in advance Interpretation: enrolment paused due to preclinical toxicity findings of INCB000262	Correct Prediction Conclusion: statistically probably insignificant and commercially insufficient Classification: True Negative (TN)
1575	INCB000547 (EP547) NCTID: NCT05525520 Phase: Phase 2 Class: First-In-Class Modality: small molecule MoA: MRGPRX4 antagonist Area: Immune System Diseases Indication: Cholestatic Pruritus (CP) Human Patients: 62 Sponsor: Incyte Corporation (INCY)	Date: 28 Apr 2024 Quarter: Q3'24 Batch 4 Technical: partial SUCCESS (statistically maybe significant yet very weak clinical benefit in cholestatic pruritus reduction with a negative dose-response relationship) Commercial: FAILURE (commercially insufficient clinical benefit with inferior-to-SoC efficacy in cholestatic pruritus reduction)	Readout: 18 Nov 2024 Lead Time: 204 days in advance Interpretation: INCB000547's further development will be discontinued due to weak clinical benefit (no detailed data disclosure)	Correct Prediction Conclusion: statistically probably insignificant and commercially insufficient Classification: True Negative (TN)
1604	LTI-03 NCTID: NCT05954988 Phase: Phase 1 Class: First-In-Class Modality: peptide MoA: CAV1-like peptide Area: Respiratory Tract Diseases Indication: Idiopathic Pulmonary Fibrosis (IPF) Human Patients: 24 Sponsor: Aileron Therapeutics (ALRN)	Date: 12 May 2024 Quarter: Q3'24 Batch 7 Technical: SUCCESS (statistically significant clinical benefit) Commercial: SUCCESS (commercially sufficient clinical benefit with superior-to-bexotegrest efficacy in FVC)	Readout: 13 Nov 2024 Lead Time: 185 days in advance Interpretation: LTI03 is safe and achieved statistical significant in four of eight IPF biomarkers for cohort 1 and cohort 2	Correct Prediction Conclusion: statistically significant (safety) and commercially TBD Classification: True Positive (TP)
1444	tezepelumab	Date: 5 Feb 2024	Readout: 8 Nov 2024	Correct Prediction

Validated Trial Evidence: Filtered Registry (144 of 604 trials)

Filtered view: **Immunology**

#	Clinical Trial	Certified Prediction	Validation	Result
	NCTID: NCT04851964 Phase: Phase 3 Class: First-In-Class Modality: monoclonal antibody MoA: anti-TSLP inhibitor Area: Respiratory Tract Diseases Indication: pancreas Neoplasm Stomach Neoplasm Gastrointestinal Neoplasms Digestive System Neoplasm Neoplasms by Site Neoplasms Human Patients: 416 Sponsor: Amgen / AstraZeneca (AMGN/AZN)	Quarter: Q3'24 Batch 11 Technical: SUCCESS (statistically significant yet moderate additive clinical benefit) Commercial: SUCCESS (commercially sufficient yet moderate additive clinical benefit)	Lead Time: 277 days in advance Interpretation: tezepelumab achieved the efficacy primary endpoint of total endoscopic nasal polyp score at week 52 and mean nasal obstruction score by week 52	Conclusion: statistically significant and commercially sufficient Classification: True Positive (TP)
1217	SRP-5051 NCTID: NCT04004065 Phase: Phase 2 Class: First-In-Class Modality: small molecule MoA: Menin-MLL1 inhibitor Area: Musculoskeletal Diseases Indication: Duchenne Muscular Dystrophy (DMD) Human Patients: 62 Sponsor: Sarepta Therapeutics (SRPT)	Date: 11 Aug 2023 Quarter: 2H'23 Batch 12 Technical: partial SUCCESS (statistically significant clinical benefit in dystrophin level) Commercial: FAILURE (commercially insufficient clinical benefit in 6MWD)	Readout: 6 Nov 2024 Lead Time: 453 days in advance Interpretation: SRP5051 resulted in a mean absolute dystrophin expression of 5.17% at week 28; yet its further development has been discontinued due to unremarkable benefit-risk data	Correct Prediction Conclusion: statistically partially significant (dystrophin expression) and commercially insufficient (weak efficacy) Classification: True Negative (TN)
1353	Efgartigimod NCTID: NCT05810961 Phase: Phase 2 Class: First-In-Class Modality: antibody fragment biologic MoA: FcRn receptor inhibitor Area: Immune System Diseases Indication: Membranous Nephropathy Human Patients: 8 Sponsor: argenx (ARGX)	Date: 30 Nov 2023 Quarter: - Batch - Technical: partial SUCCESS (statistically significant yet moderate clinical benefit in UPCR) partial FAILURE (statistically insignificant clinical benefit in eGFR) Commercial: FAILURE (commercially insufficient clinical benefit)	Readout: 31 Oct 2024 Lead Time: 336 days in advance Interpretation: efgartigimod failed to achieve sufficient clinical benefit and further development discontinued	Correct Prediction Conclusion: statistically insignificant and commercially insufficient Classification: True Negative (TN)
1448	Fipaxalparant (HZN825) NCTID: NCT05032066 Phase: Phase 2 Class: First-In-Class Modality: small molecule MoA: LPAR1 antagonist Area: Respiratory Tract Diseases Indication: Idiopathic Pulmonary Fibrosis (IPF) Human Patients: 153 Sponsor: Amgen (AMGN)	Date: 5 Feb 2024 Quarter: Q3'24 Batch 11 Technical: partial SUCCESS (statistically maybe significant yet very weak clinical benefit) Commercial: FAILURE (commercially insufficient clinical benefit inferior to bexotegast)	Readout: 30 Oct 2024 Lead Time: 268 days in advance Interpretation: fipaxalparant failed to achieve any primary/secondary endpoints and further development discontinued	Correct Prediction Conclusion: statistically insignificant and commercially insufficient Classification: True Negative (TN)
711	Peresolimab NCTID: NCT05516758 Phase: Phase 2 Class: First-In-Class Modality: monoclonal antibody MoA: PD1 agonist Area: Immune System Diseases Indication: Rheumatoid Arthritis Human Patients: 491 Sponsor: Eli Lilly and Company (LLY)	Date: 26 Nov 2022 Quarter: - Batch - Technical: FAILURE (statistically insignificant clinical benefit) Commercial: FAILURE (commercially insufficient clinical benefit)	Readout: 30 Oct 2024 Lead Time: 704 days in advance Interpretation: peresolimab terminated without data disclosure despite positive phase2a data in 2023 (DOI: 10.1056/NEJMoa2209856)	Correct Prediction Conclusion: statistically insignificant and commercially insufficient Classification: True Negative (TN)
1748	Depemokimab (GSK3511294) NCTID: NCT05281523	Date: 13 Aug 2024 Quarter: Q4'24 Batch 7	Readout: 14 Oct 2024 Lead Time: 62 days in advance	Correct Prediction Conclusion: statistically significant

Validated Trial Evidence: Filtered Registry (144 of 604 trials)

Filtered view: **Immunology**

#	Clinical Trial	Certified Prediction	Validation	Result
	Phase: Phase 3 Class: Best-In-Class Modality: monoclonal antibody MoA: ultra-long-acting anti-IL5 mAb inhibitor Area: Respiratory Tract Diseases Indication: Chronic Rhinosinusitis With Nasal Polyps (CRSwNP) Human Patients: 264 Sponsor: GSK (GSK)	Technical: SUCCESS (statistically significant additive clinical benefit in NPS/SNOT22 against placebo) Commercial: SUCCESS (commercially sufficient additive clinical benefit in NPS/SNOT22 non-superior-non-inferior to tezepelumab)	Interpretation: Depemokimab achieved the efficacy primary endpoint of total endoscopic nasal polyp score at week 52 and mean nasal obstruction score by week 52	and commercially sufficient Classification: True Positive (TP)
1747	Depemokimab (GSK3511294) NCTID: NCT05274750 Phase: Phase 3 Class: Best-In-Class Modality: monoclonal antibody MoA: ultra-long-acting anti-IL5 mAb inhibitor Area: Respiratory Tract Diseases Indication: Chronic Rhinosinusitis With Nasal Polyps (CRSwNP) Human Patients: 276 Sponsor: GSK (GSK)	Date: 13 Aug 2024 Quarter: Q4'24 Batch 7 Technical: SUCCESS (statistically significant additive clinical benefit in NPS/SNOT22 against placebo) Commercial: SUCCESS (commercially sufficient additive clinical benefit in NPS/SNOT22 non-superior-non-inferior to tezepelumab)	Readout: 14 Oct 2024 Lead Time: 62 days in advance Interpretation: Depemokimab achieved the efficacy primary endpoint of total endoscopic nasal polyp score at week 52 and mean nasal obstruction score by week 52.	Correct Prediction Conclusion: statistically significant and commercially sufficient Classification: True Positive (TP)
1627	Obinutuzumab NCTID: NCT04221477 Phase: Phase 3 Class: First-In-Class Modality: monoclonal antibody MoA: type II anti-CD20 mAb inhibitor Area: Immune System Diseases Indication: Lupus Nephritis Human Patients: 252 Sponsor: Roche Group (RHHBY)	Date: 15 May 2024 Quarter: Q3'24 Batch 6 Technical: SUCCESS (statistically significant additive clinical benefit in CRR) Commercial: SUCCESS (commercially sufficient additive clinical benefit in eGFR)	Readout: 26 Sep 2024 Lead Time: 134 days in advance Interpretation: obinutuzumab achieved superiority over SoC alone in complete renal response at week 76 and in two other two secondary endpoints; yet eGFR secondary endpoint not met.	Overall Missed Prediction Note: due to suboptimal modelling of MoA with respect to the eGFR endpoint that has been materially impro... Conclusion: statistically significant and commercially maybe sufficient (FDA approved new medicine that hasn't demonstrated eGFR improvement in registrational trials) Classification: False Positive (FP)
1595	WVE-N531 NCTID: NCT04906460 Phase: Phase 1 Phase 2 Class: Best-In-Class Modality: siRNA MoA: stereopure exon 53 skipping antisense oligonucleotides Area: Musculoskeletal Diseases Indication: Duchenne Muscular Dystrophy (DMD) Human Patients: 11 Sponsor: Wave Life Sciences (WVE)	Date: 12 May 2024 Quarter: Q3'24 Batch 6 Technical: partial SUCCESS (statistically significant clinical benefit in dystrophin protein level) partial FAILURE (statistically insignificant clinical benefit in NSAA/10MRW/SV95C) Commercial: FAILURE (commercially insufficient clinical benefit in 6MWD non-superior and non-inferior to DYNE251 or SRP5051)	Readout: 24 Sep 2024 Lead Time: 135 days in advance Interpretation: a mean absolute dystrophin expression of 5.5%; which is relatively higher than competitor drugs.	Correct Prediction Note: Correct Technical prediction (commercial data TBD) Conclusion: statistically partially significant (dystrophin expression) and partially TBD (functional endpoints) and commercially TBD Classification: True Positive (TP)
1446	Inebilizumab NCTID: NCT04524273 Phase: Phase 3 Class: First-In-Class Modality: monoclonal antibody MoA: anti-CD19 mAb inhibitor Area: Immune System Diseases Indication: generalized myasthenia gravis (gMG) Human Patients: 238 Sponsor: Amgen (AMGN)	Date: 5 Feb 2024 Quarter: Q3'24 Batch 11 Technical: SUCCESS (statistically significant clinical benefit) Commercial: SUCCESS (commercially sufficient clinical benefit)	Readout: 24 Sep 2024 Lead Time: 232 days in advance Interpretation: inebilizumab achieved 1.9 placebo-adjusted MG-ADL score reduction at week 26 (p < 0.0001); numerically superior to efgartigimod's 1.6-1.7 placebo-adjusted MG-ADL score reduction at week 8-11 (doi-10.1212/WNL.0000000000007600); commercially sufficient for unsaturated market.	Correct Prediction Conclusion: statistically significant and commercially sufficient Classification: True Positive (TP)
1445	Rocatinlimab NCTID: NCT05651711	Date: 10 Aug 2024 Quarter: Q4'24 Batch 6	Readout: 24 Sep 2024 Lead Time: 45 days in advance	Overall Correct Prediction Conclusion: statistically significant

Validated Trial Evidence: Filtered Registry (144 of 604 trials)

Filtered view: **Immunology**

#	Clinical Trial	Certified Prediction	Validation	Result
	Phase: Phase 3 Class: First-In-Class Modality: monoclonal antibody MoA: anti-OX40 mAb inhibitor Area: Skin and Connective Tissue Diseases Indication: Atopic Dermatitis Human Patients: 726 Sponsor: Amgen (AMGN)	Technical: SUCCESS (statistically significant clinical benefit in EASI75 against placebo) Commercial: SUCCESS (commercially sufficient clinical benefit in EASI75; superior to dupilumab/lebrikizumab; non-superior-and-non-inferior to amltelimab; yet inferior to upadacitinib)	Interpretation: rocatinlimab achieved 19.1% placebo-adjusted EASI75 at week 24; inferior to dupilumab nearly 40% placebo-adjusted EASI75 at week 16 (see 10.1056/NEJMoa1610020); and inferior to upadacitinib's nearly 60% placebo-adjusted EASI75 at week 24 (see 10.1016/S0140-6736(21)00588-2).	and commercially maybe sufficient Classification: True Positive (TP)
660	TransCon CNP NCTID: NCT05598320 Phase: Phase 2 Phase 3 Class: First-In-Class Modality: peptide prodrug MoA: long-lasting c-type natriuretic peptide Area: Musculoskeletal Diseases Indication: Achondroplasia Human Patients: 84 Sponsor: Ascendis Pharma (ASND)	Date: 29 Aug 2024 Quarter: Q4'24 Batch 14 Technical: SUCCESS (statistically significant clinical benefit in AGV against placebo) Commercial: partial SUCCESS (commercially maybe sufficient yet moderate clinical benefit in AGV inferior to vosoritide due to suboptimal dosage)	Readout: 16 Sep 2024 Lead Time: 18 days in advance Interpretation: once-weekly TransCon CNP achieved an AGV with LS mean treatment difference 1.49 cm/year; which is lower than 1.57cm/year achieved by the once-daily SoC vosoritide.	Correct Prediction Conclusion: statistically significant and commercially maybe sufficient (weaker efficacy yet better adherence with once-weekly administration) Classification: True Positive (TP)
1594	SER-155 NCTID: NCT04995653 Phase: Phase 1 Class: First-In-Class Modality: microbiome therapeutic MoA: oral 16-strain cultivated microbiome therapeutic Area: Immune System Diseases Indication: Graft vs. Host Disease (GvHD) Human Patients: 60 Sponsor: Seres Therapeutics (MCRB)	Date: 12 May 2024 Quarter: Q3'24 Batch 6 Technical: SUCCESS (statistically maybe significant yet weak clinical benefit) Commercial: FAILURE (commercially insufficient clinical benefit with inferior-to-steroid-or-ruxolitinib efficacy)	Readout: 12 Sep 2024 Lead Time: 123 days in advance Interpretation: SER155 achieved a lower-than-placebo incidence of bacterial bloodstream infections (BSIs) (10% vs 42.9% p=0.0423) yet insignificant incidence of febrile neutropenia (p=0.4674).	Correct Prediction Conclusion: statistically borderline significant and commercially insufficient (weak efficacy) Classification: True Negative (TN)
1629	Losmapimod NCTID: NCT05397470 Phase: Phase 3 Class: First-In-Class Modality: small molecule MoA: p38$\pm$/γ-MAPK small molecule inhibitor Area: Musculoskeletal Diseases Indication: Facioscapulohumeral Muscular Dystrophy (FSHD) Human Patients: 260 Sponsor: Fulcrum Therapeutics (FULC)	Date: 25 Jul 2024 Quarter: Q4'24 Batch 9 Technical: FAILURE (statistically insignificant clinical benefit in RWS) Commercial: FAILURE (commercially insufficient clinical benefit RWS for patients that are not stratified by p38MAPK expression levels)	Readout: 12 Sep 2024 Lead Time: 49 days in advance Interpretation: losmapimod failed to meet RWS primary endpoint.	Correct Prediction Conclusion: statistically insignificant and commercially insufficient Classification: True Negative (TN)
1740	dupilumab NCTID: NCT04180488 Phase: Phase 3 Class: Best-In-Class Modality: monoclonal antibody MoA: anti-IL4 and anti-IL13 mAb inhibitor Area: Immune System Diseases Indication: chronic spontaneous urticaria (CSU) Human Patients: 397 Sponsor: Sanofi (SNY)	Date: 10 Aug 2024 Quarter: Q4'24 Batch 5 Technical: SUCCESS (statistically significant yet moderate clinical benefit in ISS7/UAS7 against placebo in biologic-naïve refractory CSU patients) Commercial: FAILURE (commercially insufficient clinical benefit in ISS7/UAS7 inferior to both omalizumab and barzolvolimab in biologic-naïve refractory CSU patients)	Readout: 10 Sep 2024 Lead Time: 31 days in advance Interpretation: dupilumab achieved 12% placebo-adjusted CR at week 24 (p=0.02) vs. 31% placebo-adjusted CR at week 12 achieved by barzolvolimab in NCT05368285 vs 27% placebo-adjusted CR at week 12 achieved by omalizumab in ASTERIA I study.	Correct Prediction Conclusion: statistically significant and commercially insufficient (inferior to both omalizumab and barzolvolimab) Classification: True Negative (TN)
1749	mepolizumab	Date: 13 Aug 2024 Quarter: Q4'24 Batch 7	Readout: 6 Sep 2024 Lead Time: 24 days in advance	Missed Prediction

Validated Trial Evidence: Filtered Registry (144 of 604 trials)

Filtered view: **Immunology**

#	Clinical Trial	Certified Prediction	Validation	Result
	NCTID: NCT04133909 Phase: Phase 3 Class: First-In-Class Modality: monoclonal antibody MoA: anti-IL5 mAb inhibitor Area: Respiratory Tract Diseases Indication: Chronic Obstructive Pulmonary Disease (COPD) Human Patients: 806 Sponsor: GSK (GSK)	Technical: FAILURE (statistically insignificant additive clinical benefit in exacerbation ratio) Commercial: FAILURE (commercially insufficient additive clinical benefit in exacerbation ratio)	Interpretation: primary endpoint of annualized exacerbation reduction was met with statistically significant and clinically meaningful efficacy.	Note: due to suboptimal modelling of eosinophil count in the clinical setting of COPD. Conclusion: statistically significant and commercially sufficient Classification: False Negative (FN)
1253	DYNE-251 NCTID: NCT05524883 Phase: Phase 1 Phase 2 Class: First-In-Class Modality: siRNA MoA: dystrophin exon 51 skipping Fab Area: Musculoskeletal Diseases Indication: Duchenne Muscular Dystrophy (DMD) Human Patients: 88 Sponsor: Dyne Therapeutics (DYN)	Date: 21 Nov 2023 Quarter: Q1'24 Batch 7 Technical: partial SUCCESS (statistically significant clinical benefit in dystrophin protein level); partial FAILURE (statistically insignificant clinical benefit in NSAA/10MRW/FVC) Commercial: FAILURE (commercially insufficient clinical benefit in 6MWD)	Readout: 3 Sep 2024 Lead Time: 287 days in advance Interpretation: a mean absolute dystrophin expression of 3.71% of normal; yet weak functional efficacy(change from baseline in SV95C only meet EMA-defined minimal clinically important difference (MCID); whereas other functional efficacy endpoints NSAA/10MWR probably didn't reach MCID).	Overall Correct Prediction Conclusion: statistically partially significant (dystrophin expression) and partially insignificant (functional endpoints) and commercially probably insufficient (weak efficacy) Classification: True Negative (TN)
1188	Izokibep NCTID: NCT05905783 Phase: Phase 3 Class: Best-In-Class Modality: small protein scaffold-based biologic MoA: IL-17A Inhibitor Area: Immune System Diseases Indication: Hidradenitis Suppurativa Human Patients: 258 Sponsor: Acelyrin (SLRN)	Date: 22 Jul 2023 Quarter: - Batch - Technical: SUCCESS (statistically significant) Commercial: SUCCESS (commercially sufficient clinical benefit superior to adalimumab and non-inferior to sonelokimab)	Readout: 12 Aug 2024 Lead Time: 387 days in advance Interpretation: izokibep achieved 14% placebo-adjusted HiSCR100; superior to single-digit placebo-adjusted HiSCR100 achieved by adalimumab; and above the inferior threshold compared with 20%-30% placebo-adjusted HiSCR100 achieved by sonelokimab.	Overall Correct Prediction Conclusion: statistically significant and commercially fairly sufficient (superior to adalimumab and non-inferior to sonelokimab) Classification: True Positive (TP)
1183	Izokibep NCTID: NCT05355805 Phase: Phase 2 Class: First-In-Class Modality: small protein scaffold-based biologic MoA: IL-17A Inhibitor Area: Immune System Diseases Indication: Hidradenitis Suppurativa Human Patients: 176 Sponsor: Acelyrin (SLRN)	Date: 22 Jul 2023 Quarter: - Batch - Technical: SUCCESS (statistically significant) Commercial: SUCCESS (commercially sufficient clinical benefit superior to adalimumab and non-inferior to sonelokimab)	Readout: 12 Aug 2024 Lead Time: 387 days in advance Interpretation: izokibep achieved 14% placebo-adjusted HiSCR100; superior to single-digit placebo-adjusted HiSCR100 achieved by adalimumab; and above the inferior threshold compared with 20%-30% placebo-adjusted HiSCR100 achieved by sonelokimab.	Overall Correct Prediction Conclusion: statistically significant and commercially fairly sufficient (superior to adalimumab and non-inferior to sonelokimab) Classification: True Positive (TP)
1695	Epetraborole NCTID: NCT05327803 Phase: Phase 2 Phase 3 Class: First-In-Class Modality: small molecule MoA: a novel bacterial leucyl-tRNA synthetase inhibitor Area: Respiratory Tract Diseases Indication: MAC Lung Disease Human Patients: 314 Sponsor: AN2 Therapeutics (ANTX)	Date: 24 Jul 2024 Quarter: Q3'24 Batch 19 Technical: FAILURE (statistically insignificant additive clinical benefit in clinical response as an adjunctive therapy to SoC) Commercial: FAILURE (commercially insufficient additive clinical benefit in reinfection/relapse as an adjunctive therapy to SoC)	Readout: 8 Aug 2024 Lead Time: 15 days in advance Interpretation: 13.9% placebo-adjusted difference (p=0.19) in PRO-based clinical response rate and trial discontinued for low efficacy.	Correct Prediction Conclusion: statistically insignificant and commercially insufficient Classification: True Negative (TN)
1557	PGN-EDO51 NCTID: NCT06079736 Phase: Phase 2 Class: First-In-Class	Date: 23 Apr 2024 Quarter: Q3'24 Batch 2 Technical: SUCCESS (statistically significant clinical benefit in	Readout: 30 Jul 2024 Lead Time: 98 days in advance Interpretation: 5mg low-dose exon skipping level and dystrophin level	Correct Prediction Note: Correct Technical prediction (commercial data TBD)

Validated Trial Evidence: Filtered Registry (144 of 604 trials)

Filtered view: **Immunology**

#	Clinical Trial	Certified Prediction	Validation	Result
	Modality: peptide-conjugated antisense oligonucleotide ASO MoA: EDO cell-penetrating peptide conjugated with dystrophin exon 51 skipping oligonucleotide Area: Musculoskeletal Diseases Indication: Duchenne Muscular Dystrophy (DMD) Human Patients: 10 Sponsor: PepGen (PEPG)	dystrophin protein level) Commercial: FAILURE (commercially insufficient clinical benefit in the registrational endpoint 6MWD non-superior-to and non-inferior-to SRP-5051)	comparable to SRP5051 20mg (NCT04004065).	Conclusion: statistically significant and commercially TBD (pending functional efficacy data) Classification: True Positive (TP)
861	Barzolvolimab Matching Placebo NCTID: NCT05405660 Phase: Phase 2 Class: First-In-Class Modality: monoclonal antibody MoA: KIT receptor tyrosine kinase inhibitor Area: Skin and Connective Tissue Diseases Indication: Chronic Inducible Urticaria Human Patients: 196 Sponsor: Celldex Therapeutics (CLDX)	Date: 19 Aug 2023 Quarter: 2H'23 Batch 16 Technical: SUCCESS (statistically significant clinical benefit) Commercial: SUCCESS (commercially sufficient clinical benefit)	Readout: 29 Jul 2024 Lead Time: 345 days in advance Interpretation: CDX0159 achieved 40.6% placebo-adjusted CR.	Correct Prediction Conclusion: statistically significant and commercially sufficient Classification: True Positive (TP)
1257	VTX958 NCTID: NCT05688852 Phase: Phase 2 Class: First-In-Class Modality: small molecule MoA: oral selective allosteric TYK2 inhibitor Area: Immune System Diseases Indication: Crohn Disease Human Patients: 132 Sponsor: Ventyx Biosciences (VTYX)	Date: 23 Apr 2024 Quarter: Q3'24 Batch 3 Technical: FAILURE (statistically insignificant clinical benefit) Commercial: FAILURE (commercially insufficient clinical benefit)	Readout: 29 Jul 2024 Lead Time: 97 days in advance Interpretation: primary endpoint in CDAI score not met.	Correct Prediction Conclusion: statistically insignificant and commercially insufficient Classification: True Negative (TN)
1580	Descartes-08 NCTID: NCT04146051 Phase: Phase 2b Class: First-In-Class Modality: CAR-T therapy MoA: autologous anti-BCMA CAR-T therapy Area: Immune System Diseases Indication: Generalized Myasthenia Gravis Human Patients: 30 Sponsor: Cartesian Therapeutics (RNAC)	Date: 26 Apr 2024 Quarter: Q3'24 Batch 3 Technical: SUCCESS (statistically significant clinical benefit) Commercial: SUCCESS (commercially sufficient clinical benefit with superior-to-efgartigimod efficacy)	Readout: 2 Jul 2024 Lead Time: 67 days in advance Interpretation: 46% placebo-adjusted >=5 MGC response at week 12 (vs efgartigimod 30% placebo-adjusted >=3 MGC response at week 26 ADAPT trial).	Correct Prediction Conclusion: statistically significant and commercially sufficient superior to efgartigimod Classification: True Positive (TP)
1398	Molgramostim NCTID: NCT04544293 Phase: Phase 3 Class: First-In-Class Modality: recombinant protein biologic MoA: recombinant GM-CSF Area: Respiratory Tract Diseases Indication: Autoimmune Pulmonary Alveolar Proteinosis Human Patients: 160 Sponsor: Savara (SVRA)	Date: 1 Jan 2024 Quarter: Q2'24 Batch 5 Technical: FAILURE (statistically insignificant clinical benefit) Commercial: FAILURE (commercially insufficient clinical benefit)	Readout: 26 Jun 2024 Lead Time: 177 days in advance Interpretation: lung function primary endpoint placebo-adjusted DLCO met at both 24 and 48 weeks (6 to 6.9 with p <0.001); yet 5/6 clinical benefit secondary endpoints (SRGQ total/activity scores and exercise capacity) not met at 24 weeks and 48 weeks with abnormal duration-response relationship.	Overall Correct Prediction Conclusion: statistically significant yet commercially insufficient clinical benefit Classification: True Negative (TN)
1440	AV-101	Date: 27 Jan 2024 Quarter: Q2'24 Batch 5	Readout: 17 Jun 2024 Lead Time: 142 days in advance	Correct Prediction

Validated Trial Evidence: Filtered Registry (144 of 604 trials)

Filtered view: **Immunology**

#	Clinical Trial	Certified Prediction	Validation	Result
	NCTID: NCT05036135 Phase: Phase 2 Phase 3 Class: First-In-Class Modality: dry powder inhaled formulation MoA: inhaled imatinib as a tyrosine kinase inhibitor Area: Respiratory Tract Diseases Indication: Pulmonary Arterial Hypertension Human Patients: 462 Sponsor: Aerovate Therapeutics (AVTE)	Technical: partial SUCCESS (statistically maybe significant yet weak clinical benefit in PVR); partial FAILURE (statistically insignificant clinical benefit in 6MWD) Commercial: FAILURE (commercially insufficient clinical benefit)	Interpretation: no dose met the primary efficacy endpoint PVR and no dose achieved minimally clinical meaningful improvement in 6MWD (30 meters).	Conclusion: statistically insignificant and commercially insufficient Classification: True Negative (TN)
1359	CABA-201 NCTID: NCT06121297 Phase: Phase 1 Phase 2 Class: First-In-Class Modality: cell therapy MoA: anti-CD19 CAR T Area: Immune System Diseases Indication: Systemic Lupus Erythematosus (SLE) Human Patients: 12 Sponsor: Cabaletta Bio (CABA)	Date: 30 Nov 2023 Quarter: Q1'24 Batch 12 Technical: SUCCESS (statistically significant clinical benefit) Commercial: partial SUCCESS (commercially sufficient clinical benefit despite moderate toxicity)	Readout: 14 Jun 2024 Lead Time: 197 days in advance Interpretation: CABA201 reduced SLEDAI-2K score from 26 at baseline to 10 at week 4 of follow-up; an LN patient experienced dose-limiting Grade 4 ICANS.	Overall Correct Prediction Conclusion: statistically significant and commercially sufficient (despite moderate toxicity) Classification: True Positive (TP)
1001	AOC 1020 NCTID: NCT05747924 Phase: Phase 1 Phase 2 Class: First-In-Class Modality: small interfering RNA (siRNA) antisense oligonucleotide MoA: anti-DUX4 siRNA oligonucleotide Area: Musculoskeletal Diseases Indication: Facioscapulohumeral Muscular Dystrophy (FSHD) Human Patients: 72 Sponsor: Avidity Biosciences (RNA)	Date: 30 Nov 2023 Quarter: Q1'24 Batch 5 Technical: partial SUCCESS (statistically maybe significant yet weak clinical benefit) Commercial: FAILURE (commercially insufficient clinical benefit)	Readout: 12 Jun 2024 Lead Time: 195 days in advance Interpretation: 50% mean reduction in DUX4-targeted genes; yet with statistically insignificant trends of functional improvement.	Correct Prediction Conclusion: statistically significant and commercially insufficient (weak functional efficacy) Classification: True Negative (TN)
1414	PF-06939926 NCTID: NCT04281485 Phase: Phase 3 Class: Best-In-Class Modality: gene therapy MoA: rAAV9 vector carrying a minidystrophin gene Area: Musculoskeletal Diseases Indication: Duchenne Muscular Dystrophy (DMD) Human Patients: 122 Sponsor: Pfizer (PFE)	Date: 15 Jan 2024 Quarter: Q1'24 Batch 15 Technical: FAILURE (statistically insignificant clinical benefit) Commercial: FAILURE (commercially insufficient clinical benefit with inferior-to-SRP9001 efficacy)	Readout: 12 Jun 2024 Lead Time: 149 days in advance Interpretation: statistically insignificant for all primary/secondary endpoints.	Correct Prediction Conclusion: statistically insignificant and commercially insufficient (SRP9001 at least meet some secondary endpoints) Classification: True Negative (TN)
1260	Povetacipte (ALPN-303) NCTID: NCT05732402 Phase: Phase 1 Phase 2 Class: First-In-Class Modality: Fc fusion protein MoA: dual APRIL/BAFF antagonist Area: Immune System Diseases Indication: immunoglobulin A (IgA) nephropathy; membranous nephropathy; lupus-related kidney disease (lupus nephritis); anti-neutrophil cytoplasmic antibody (ANCA) associated vasculitis Human Patients: 56	Date: 2 Oct 2023 Quarter: 2H'23 Batch 19 Technical: SUCCESS (statistically significant clinical benefit for proteinuria) Commercial: FAILURE (commercially insufficient clinical benefit due to low clinical efficacy on eGFR)	Readout: 12 Jun 2024 Lead Time: 254 days in advance Interpretation: -47% UPCR and -0.2mL eGFR at 24 weeks (vs -18% UPCR and +1.0mL eGFR at 24 weeks by Tarpeyo).	Correct Prediction Conclusion: statistically significant in UPCR and commercially insufficient for eGFR Classification: True Negative (TN)

Validated Trial Evidence: Filtered Registry (144 of 604 trials)

Filtered view: **Immunology**

#	Clinical Trial	Certified Prediction	Validation	Result
	Sponsor: ALPN Alpine Immune Sciences / Vertex Pharmaceuticals (ALPN (VRTX))			
1005	4D-710 NCTID: NCT05248230 Phase: Phase 1 Phase 2 Class: First-In-Class Modality: gene therapy MoA: aerosol delivered human-mAb-resistant AAV transgene payload expressing CFTR Area: Respiratory Tract Diseases Indication: Cystic Fibrosis Human Patients: 24 Sponsor: 4D Molecular Therapeutics (FDMT)	Date: 11 May 2024 Quarter: Q3'24 Batch 5 Technical: FAILURE (statistically insignificant clinical benefit) Commercial: FAILURE (commercially insufficient clinical benefit)	Readout: 6 Jun 2024 Lead Time: 26 days in advance Interpretation: achieved 5-6% ppFEV1 from baseline by month 12; which is inferior to vertex's SoC's 14% improvement in 4 weeks.	Correct Prediction Conclusion: statistically probably insignificant and commercially insufficient Classification: True Negative (TN)
1447	Inebilizumab NCTID: NCT04540497 Phase: Phase 3 Class: First-In-Class Modality: monoclonal antibody MoA: anti-CD19 mAb inhibitor Area: Immune System Diseases Indication: IgG4 Related Disease Human Patients: 135 Sponsor: Amgen (AMGN)	Date: 5 Feb 2024 Quarter: Q3'24 Batch 11 Technical: FAILURE (statistically insignificant clinical benefit) Commercial: FAILURE (commercially insufficient clinical benefit)	Readout: 5 Jun 2024 Lead Time: 121 days in advance Interpretation: -87% risk reduction in IgG4-RD flare compared with placebo.	Missed Prediction Note: due to suboptimal IgG4-RD disease model that has been permanently corrected. Conclusion: statistically significant and commercially sufficient Classification: False Negative (FN)
846	EQ101 NCTID: NCT05589610 Phase: Phase 2 Class: First-In-Class Modality: small molecule MoA: tri-specific IL2/IL9/IL15 inhibitor Area: Skin and Connective Tissue Diseases Indication: Moderate to Severe Alopecia Areata Human Patients: 36 Sponsor: Equillium (EQ)	Date: 18 Feb 2024 Quarter: Q2'24 Batch 7 Technical: SUCCESS (statistically significant clinical benefit) Commercial: SUCCESS (commercially sufficient clinical benefit)	Readout: 4 Jun 2024 Lead Time: 107 days in advance Interpretation: 20-29% <20 SALT score at week 24 achieved by EQ101 (vs 23% <20 SALT score at week 24 achieved by rituximab 50mg King et al. 2023 Lancet in NCT03732807).	Correct Prediction Conclusion: statistically significant and commercially sufficient (only one approved treatment so far) Classification: True Positive (TP)
344	ANX005 NCTID: NCT04701164 Phase: Phase 3 Class: First-In-Class Modality: monoclonal antibody MoA: C1q mAb inhibitor Area: Immune System Disease Indication: Guillain-Barre Syndrome Human Patients: 216 Sponsor: Annexon (ANNX)	Date: 22 Dec 2023 Quarter: Q1'24 Batch 12 Technical: FAILURE (statistically insignificant clinical benefit) Commercial: FAILURE (commercially insufficient clinical benefit)	Readout: 4 Jun 2024 Lead Time: 165 days in advance Interpretation: primary endpoint (GBS-DS) with lower dosage 30mg/kg yet not met with higher dosage 75mg/kg; none of the secondary endpoints met.	Correct Prediction Conclusion: statistically mostly insignificant (negative dose-response relationship) and commercially insufficient Classification: True Negative (TN)
1461	ARCT-032 NCTID: NCT05712538 Phase: Phase 1 Class: First-In-Class Modality: mRNA medicine MoA: LNP-delivered CTRF mRNA medicine Area: Respiratory Tract Diseases Indication: Cystic Fibrosis Human Patients: 38 Sponsor: Arcturus Therapeutics	Date: 14 Feb 2024 Quarter: Q2'24 Batch 3 Technical: SUCCESS (statistically significant clinical benefit) Commercial: SUCCESS (commercially sufficient clinical benefit)	Readout: 28 May 2024 Lead Time: 104 days in advance Interpretation: 4% FEV1 improvement at day 8 (no SoC for mutation-agnostic CF).	Correct Prediction Conclusion: statistically significant and commercially sufficient Classification: True Positive (TP)

Validated Trial Evidence: Filtered Registry (144 of 604 trials)

Filtered view: **Immunology**

#	Clinical Trial	Certified Prediction	Validation	Result
	(ARCT)			
432	Brensocatib NCTID: NCT04594369 Phase: Phase 3 Class: First-In-Class Modality: small molecule MoA: oral reversible DDP-1 inhibitor Area: Respiratory Tract Diseases Indication: Non-Cystic Fibrosis Bronchiectasis Human Patients: 1767 Sponsor: Insmid (INSM)	Date: 1 Jan 2024 Quarter: Q2'24 Batch 5 Technical: partial SUCCESS (statistically maybe significant yet weak clinical benefit with reduced efficacy from increased dosage) Commercial: FAILURE (commercially insufficient clinical benefit)	Readout: 28 May 2024 Lead Time: 148 days in advance Interpretation: 19.4%-21.1% reduction in APE (vs 30%-50% reduction achieved by azithromycin in similar clinical settings); clearly weak efficacy (vs azithromycin) and clearly negative dose-response relationship (in both primary and other secondary endpoints).	Correct Prediction Conclusion: statistically significant and commercially insufficient Classification: True Negative (TN)
435	Treprostinil Palmitil NCTID: NCT05176951 Phase: Phase 2 Class: First-In-Class Modality: small molecule MoA: synthetic prostacyclin analog Area: Respiratory Tract Diseases Indication: Pulmonary Hypertension Human Patients: 39 Sponsor: Insmid (INSM)	Date: 1 Jan 2024 Quarter: Q1'24 Batch 12 Technical: SUCCESS (statistically significant clinical benefit) Commercial: SUCCESS (commercially sufficient clinical benefit)	Readout: 28 May 2024 Lead Time: 148 days in advance Interpretation: significant better tolerability than placebo and 30 meter placebo-adjusted 6MWD improvement (exploratory endpoint with large CI).	Correct Prediction Conclusion: statistically significant and commercially sufficient for phase 2a Classification: True Positive (TP)
1443	Tezepelumab NCTID: NCT04039113 Phase: Phase 2 Class: First-In-Class Modality: monoclonal antibody (mAb) MoA: anti-TSLP alarmin mAb inhibitor Area: Respiratory Tract Diseases Indication: Chronic Obstructive Pulmonary Disease (COPD) Human Patients: 337 Sponsor: Amgen (AMGN)	Date: 5 Feb 2024 Quarter: Q1'24 Batch 17 Technical: FAILURE (statistically insignificant clinical benefit) Commercial: FAILURE (commercially insufficient clinical benefit)	Readout: 19 May 2024 Lead Time: 104 days in advance Interpretation: 17% reduced annualized rate of COPD exacerbation compared with placebo (p=0.1042).	Correct Prediction Conclusion: statistically insignificant and commercially insufficient Classification: True Negative (TN)
1212	RPT193 NCTID: NCT05399368 Phase: Phase 2 Class: First-In-Class Modality: small molecule MoA: oral CCR4 inhibitor Area: Skin and Connective Tissue Diseases Indication: Atopic Dermatitis Human Patients: 229 Sponsor: RAPT Therapeutics (RAPT)	Date: 10 Aug 2023 Quarter: - Batch - Technical: FAILURE (statistically insignificant clinical benefit) Commercial: FAILURE (commercially insufficient clinical benefit)	Readout: 9 May 2024 Lead Time: 273 days in advance Interpretation: terminated due to clinical holds.	Correct Prediction Conclusion: statistically insignificant and commercially insufficient Classification: True Negative (TN)
1213	RPT193 NCTID: NCT05935332 Phase: Phase 2 Class: First-In-Class Modality: small molecule MoA: oral CCR4 inhibitor Area: Respiratory Tract Diseases Indication: Moderate to Severe T2-high Asthma Human Patients: 38 Sponsor: RAPT Therapeutics (RAPT)	Date: 10 Aug 2023 Quarter: - Batch - Technical: FAILURE (statistically insignificant clinical benefit) Commercial: FAILURE (commercially insufficient clinical benefit)	Readout: 9 May 2024 Lead Time: 273 days in advance Interpretation: terminated due to clinical holds.	Correct Prediction Conclusion: statistically insignificant and commercially insufficient Classification: True Negative (TN)

Validated Trial Evidence: Filtered Registry (144 of 604 trials)

Filtered view: **Immunology**

#	Clinical Trial	Certified Prediction	Validation	Result
822	Imsidolimab (ANB019) NCTID: NCT05352893 Phase: Phase 3 Class: First-In-Class Modality: monoclonal antibody (mAb) MoA: anti-IL36R mAb inhibitor Area: Immune System Diseases Indication: Generalized Pustular Psoriasis Human Patients: 45 Sponsor: AnaptysBio (ANAB)	Date: 27 Dec 2022 Quarter: - Batch - Technical: SUCCESS Commercial: SUCCESS	Readout: 9 May 2024 Lead Time: 499 days in advance Interpretation: 40% placebo-adjusted GPPPGA score 0/1 (p=0.0131) in GEMINI1.	Correct Prediction Conclusion: statistically significant and commercially sufficient Classification: True Positive (TP)
1386	Imsidolimab (ANB019) NCTID: EUCT02021-001448-90 Phase: Phase 3 Class: First-In-Class Modality: monoclonal antibody (mAb) MoA: anti-IL36R mAb inhibitor Area: Immune System Diseases Indication: Generalized Pustular Psoriasis Human Patients: 16 Sponsor: AnaptysBio (ANAB)	Date: 17 Dec 2023 Quarter: - Batch - Technical: SUCCESS (statistically significant clinical benefit) Commercial: SUCCESS (commercially sufficient clinical benefit)	Readout: 9 May 2024 Lead Time: 144 days in advance Interpretation: 75% placebo-adjusted GPPPGA score 0/1 maintenance and 63% placebo-adjust flare-free maintenance in GEMINI2.	Correct Prediction Conclusion: statistically significant and commercially sufficient Classification: True Positive (TP)
669	LYR-210 Sham procedure control Background Therapy NCTID: NCT05219968 Phase: Phase 3 Class: First-In-Class Modality: medical device MoA: long-acting glucocorticoid receptor agonist Area: Respiratory Tract Diseases Indication: Chronic Rhinosinusitis Human Patients: 196 Sponsor: Lyra Therapeutics (LYRA)	Date: 15 Dec 2023 Quarter: Q1'24 Batch 11 Technical: partial SUCCESS (statistically significant yet weak clinical benefit) Commercial: FAILURE (commercially insufficient clinical benefit)	Readout: 6 May 2024 Lead Time: 143 days in advance Interpretation: 3CS primary endpoint not met yet with positive trend (not significant).	Overall Correct Prediction Conclusion: statistically insignificant and commercially insufficient Classification: True Negative (TN)
1272	Semaglutid NCTID: NCT05064735 Phase: Phase 3 Class: First-In-Class Modality: peptide MoA: GLP1R agonist Area: Immune System Diseases Indication: Knee Osteoarthritis Human Patients: 407 Sponsor: Novo Nordisk (NVO)	Date: 9 Oct 2023 Quarter: 2H'23 Batch 22 Technical: SUCCESS (statistically significant clinical benefit) Commercial: SUCCESS (commercially sufficient clinical benefit)	Readout: 23 Apr 2024 Lead Time: 197 days in advance Interpretation: semaglutide achieved a placebo-adjusted -14.2 WOMAC pain reduction (P<0.001)	Correct Prediction Conclusion: statistically significant and commercially sufficient Classification: True Positive (TP)
716	Tirzepatide NCTID: NCT05412004 Phase: Phase 3 Class: First-In-Class Modality: synthetic peptide MoA: GLP1R/GIPR-biased dual agonist Area: Respiratory Tract Diseases Indication: Obstructive Sleep Apnea Human Patients: 469 Sponsor: Eli Lilly and Company (LLY)	Date: 9 Oct 2023 Quarter: 2H'23 Batch 22 Technical: SUCCESS (statistically significant clinical benefit more for GPI2 cohort (tirzepatide + CPAP) than for GPI1 cohort (tirzepatide alone)) Commercial: partial SUCCESS (commercially sufficient clinical benefit for tirzepatide + CPAP more than for tirzepatide alone)	Readout: 17 Apr 2024 Lead Time: 191 days in advance Interpretation: (-30 AHI -63% AHI%) GPI2 Tirzepatide + CPAP > (-27 AHI -55% AHI%) GPI1 Tirzepatide > (33-48% AHI%) GPI2 CPAP [Ravesloot and Vries 2011 Sleep] > (-5 AHI -5% AHI%) GPI1 placebo.	Correct Prediction Note: with a minor miss in GPI2 CPAP Conclusion: statistically significant and commercially sufficient Classification: True Positive (TP)
1502	BHV-1300	Date: 6 Mar 2024 Quarter: Q2'24 Batch 11	Readout: 17 Apr 2024 Lead Time: 42 days in advance	Correct Prediction

Validated Trial Evidence: Filtered Registry (144 of 604 trials)

Filtered view: **Immunology**

#	Clinical Trial	Certified Prediction	Validation	Result
	NCTID: N/A (adapt the NCT06041269 trial design) Phase: Phase 1 Class: First-In-Class Modality: bispecific molecular degrader MoA: bispecific molecule IgG degrader Area: Immune System Diseases Indication: Rheumatoid Arthritis Human Patients: 420 Sponsor: Biohaven (BHVN)	Technical: partial SUCCESS (statistically maybe significant yet weak clinical benefit) Commercial: FAILURE (commercially insufficient clinical benefit with inferior-to-SoC efficacy and non-superior-to-efgartigimod toxicity)	Interpretation: unremarkable IGG data (-37%) inferior to the SoC efgartigimod IGG data (-75%).	Conclusion: statistically weak and commercially insufficient compared with efgartigimod Classification: True Negative (TN)
1345	KPL-404 NCTID: NCT05198310 Phase: Phase 2 Class: First-In-Class Modality: monoclonal antibody (mAb) MoA: anti-CD40 mAb inhibitor Area: Immune System Diseases Indication: Rheumatoid Arthritis Human Patients: 145 Sponsor: Kiniksa Pharmaceuticals (KNSA)	Date: 26 Nov 2023 Quarter: Q1'24 Batch 7 Technical: FAILURE (statistically insignificant clinical benefit) Commercial: FAILURE (commercially insufficient clinical benefit)	Readout: 2 Apr 2024 Lead Time: 128 days in advance Interpretation: DAS28-CRP primary endpoint not met for cohort 3 and cohort 4.	Correct Prediction Conclusion: statistically insignificant and commercially insufficient Classification: True Negative (TN)
845	EQ001 (Itolizumab) NCTID: NCT04128579 Phase: Phase 1 Class: First-In-Class Modality: monoclonal antibody (mAb) MoA: anti-CD6 mAb inhibitor Area: Immune System Diseases Indication: Systemic Lupus Erythematosus With or Without Active Proliferative Nephritis Human Patients: 55 Sponsor: Equillium (EQ)	Date: 18 Feb 2024 Quarter: Q2'24 Batch 7 Technical: SUCCESS (statistically significant yet moderate clinical benefit) Commercial: partial SUCCESS (commercially maybe sufficient clinical benefit)	Readout: 1 Apr 2024 Lead Time: 43 days in advance Interpretation: 80% ORR in UPCR.	Correct Prediction Conclusion: statistically significant and commercially sufficient Classification: True Positive (TP)
466	Apraglutide NCTID: NCT05415410 Phase: Phase 2 Class: Best-In-Class Modality: peptide drug MoA: GLP2R agonist Area: Immune System Diseases Indication: Graft Versus Host Disease (GVHD). Human Patients: 31 Sponsor: Ironwood Pharmaceuticals (IRWD)	Date: 5 Jan 2024 Quarter: Q1'24 Batch 17 Technical: SUCCESS (statistically significant clinical benefit) Commercial: SUCCESS (commercially sufficient clinical benefit)	Readout: 28 Mar 2024 Lead Time: 83 days in advance Interpretation: phase 2a safety primary endpoint met and showed sustained response.	Correct Prediction Conclusion: statistically significant and commercially TBD Classification: True Positive (TP)
1058	Paltusotine NCTID: NCT05192382 Phase: Phase 3 Class: First-In-Class Modality: small molecule MoA: SST2R agonist Area: Musculoskeletal Diseases Indication: Acromegaly Human Patients: 111 Sponsor: Crinetics Pharmaceuticals (CRNX)	Date: 14 Aug 2023 Quarter: Q1'24 Batch 2 Technical: SUCCESS (statistically significant clinical benefit) Commercial: SUCCESS (commercially sufficient clinical benefit superior to octreotide)	Readout: 19 Mar 2024 Lead Time: 218 days in advance Interpretation: 56% patients achieved IGF1 level < 1.0% and -2.67 ASD score; superior to the SoC octreotide LAR achieved 23.3% patients achieved IGF1 level < 1.0% and -2.67 ASD score.	Correct Prediction Conclusion: statistical significant and commercially sufficient Classification: True Positive (TP)
717	Lebrikizumab (LY3650150) NCTID: NCT05372419 Phase: Phase 3	Date: 26 Nov 2022 Quarter: - Batch - Technical: SUCCESS	Readout: 11 Mar 2024 Lead Time: 471 days in advance Interpretation: 68% EASI75 and 46%	Correct Prediction Conclusion: statistically significant and commercially sufficient

Validated Trial Evidence: Filtered Registry (144 of 604 trials)

Filtered view: **Immunology**

#	Clinical Trial	Certified Prediction	Validation	Result
	Class: Best-In-Class Modality: monoclonal antibody (mAb) MoA: IL-13 mAb inhibitor Area: Skin and Connective Tissue Diseases Indication: Atopic Dermatitis and Skin of Color Human Patients: 80 Sponsor: Eli Lilly and Company (LLY)	Commercial: SUCCESS	EASI90 55% itch reduction and 39% clear of skin; which is superior to 49% EASI75 achieved by dupilumab.	Classification: True Positive (TP)
1185	Izokibep NCTID: NCT05623345 Phase: Phase 2 Phase 3 Class: Best-In-Class Modality: small protein scaffold-based biologic MoA: IL-17A Inhibitor Area: Musculoskeletal Diseases Indication: Psoriatic Arthritis Human Patients: 351 Sponsor: Acelyrin (SLRN)	Date: 20 Nov 2023 Quarter: Q1'24 Batch 2 Technical: SUCCESS (statistically significant clinical benefit) Commercial: partial SUCCESS (commercially insufficient clinical benefit with non-superior-to-bimekizumab efficacy and inferior-to-bimekizumab toxicity)	Readout: 11 Mar 2024 Lead Time: 112 days in advance Interpretation: 28% placebo-controlled ACR50 response at wk 16 with 2.5% discontinuation rate; which is inferior to 36% placebo-controlled ACR50 response at wk 16 and 0.4% discontinuation rate; achieved by bimekizumab (DOI-10.1016/S0140-6736(22)02303-0).	Correct Prediction Conclusion: statistically significant and commercially insufficient Classification: True Negative (TN)
999	AOC 1001 NCTID: NCT05027269 Phase: Phase 1 Phase 2 Class: First-In-Class Modality: small interfering RNA (siRNA) antisense oligonucleotide MoA: anti-DMPK siRNA Area: Musculoskeletal Diseases Indication: Myotonic Dystrophy Type 1 (DM1) Human Patients: 38 Sponsor: Avidity Biosciences (RNA)	Date: 22 Apr 2023 Quarter: Q2'23 Batch 16 Technical: FAILURE (statistically insignificant clinical benefit) Commercial: FAILURE (commercially insufficient clinical benefit)	Readout: 4 Mar 2024 Lead Time: 317 days in advance Interpretation: no change in toxicity or efficacy in OLE	Correct Prediction Conclusion: statistical insignificant and commercially insufficient Classification: True Negative (TN)
1336	ARS-1 NCTID: NCT05496465 Phase: Phase 2 Class: Best-In-Class Modality: medical device MoA: epinephrine spray Area: Skin and Connective Tissue Diseases Indication: Urticaria Human Patients: 24 Sponsor: ARS Pharmaceuticals (SPRY)	Date: 20 Nov 2023 Quarter: 2H'23 Batch 30 Technical: partial SUCCESS (statistically maybe significant yet weak clinical benefit) Commercial: FAILURE (commercially insufficient clinical benefit)	Readout: 26 Feb 2024 Lead Time: 98 days in advance Interpretation: primary endpoint met with $p < 0.05$ that's not comparable with CDX0159 that achieved 40.6% placebo-adjusted CR.	Correct Prediction Conclusion: statistically significant yet weak and commercially insufficient Classification: True Negative (TN)
1276	VX-121/TEZ/D-IVA ELX/TEZ/IVA IVA NCTID: NCT05033080 Phase: Phase 3 Class: Best-In-Class Modality: small molecule MoA: CFTR modulator Area: Respiratory Tract Diseases Indication: Cystic Fibrosis Human Patients: 435 Sponsor: Vertex Pharmaceuticals (VRTX)	Date: 3 Dec 2023 Quarter: Q1'24 Batch 22 Technical: SUCCESS (statistically significant clinical benefit non-inferior and non-superior to Trikafta) Commercial: SUCCESS (commercially sufficient clinical benefit with once-daily dosing regimen)	Readout: 5 Feb 2024 Lead Time: 64 days in advance Interpretation: all primary and key secondary endpoints of non-inferiority are met	Correct Prediction Conclusion: statistically significant and commercially sufficient (once-daily) Classification: True Positive (TP)
1277	VX-121/TEZ/D-IVA ELX/TEZ/IVA IVA NCTID: NCT05076149	Date: 3 Dec 2023 Quarter: Q1'24 Batch 9 Technical: SUCCESS (statistically	Readout: 5 Feb 2024 Lead Time: 64 days in advance Interpretation: all primary and key	Correct Prediction Conclusion: statistically significant and commercially sufficient

Validated Trial Evidence: Filtered Registry (144 of 604 trials)

Filtered view: **Immunology**

#	Clinical Trial	Certified Prediction	Validation	Result
	Phase: Phase 3 Class: Best-In-Class Modality: small molecule MoA: CFTR modulator Area: Respiratory Tract Diseases Indication: Cystic Fibrosis Human Patients: 597 Sponsor: Vertex Pharmaceuticals (VRTX)	significant clinical benefit non-inferior and non-superior to Trikafta) Commercial: SUCCESS (commercially sufficient clinical benefit with once-daily dosing regimen)	secondary endpoints of non-inferiority are met	(once-daily) Classification: True Positive (TP)
1278	VX-121/TEZ/D-IVA NCTID: NCT05422222 Phase: Phase 3 Class: Best-In-Class Modality: small molecule MoA: CFTR modulator Area: Respiratory Tract Diseases Indication: Cystic Fibrosis Human Patients: 210 Sponsor: Vertex Pharmaceuticals (VRTX)	Date: 12 Oct 2023 Quarter: Q1'24 Batch 9 Technical: SUCCESS (statistically significant clinical benefit non-inferior and non-superior to Trikafta) Commercial: SUCCESS (commercially sufficient clinical benefit with once-daily dosing regimen)	Readout: 5 Feb 2024 Lead Time: 116 days in advance Interpretation: all primary and key secondary endpoints of non-inferiority are met.	Correct Prediction Conclusion: statistically significant and commercially sufficient (once-daily) Classification: True Positive (TP)
1089	Liretelimab (AK002) NCTID: NCT05155085 Phase: Phase 2 Class: First-In-Class Modality: monoclonal antibody (mAb) MoA: SIGLEC8 mAb inhibitor Area: Skin and Connective Tissue Diseases Indication: Atopic Dermatitis Human Patients: 131 Sponsor: Allakos (ALLK)	Date: 6 Jun 2023 Quarter: 2H'23 Batch 3 Technical: SUCCESS (statistically significant clinical benefit) Commercial: SUCCESS (commercially sufficient clinical benefit for refractory patients superior to omalizumab)	Readout: 16 Jan 2024 Lead Time: 224 days in advance Interpretation: primary endpoint not met.	Missed Prediction Note: due to suboptimal drug MoA modelling that has been permanently corrected. Conclusion: statistically insignificant commercially insufficient Classification: False Positive (FP)
770	ATI-1777 NCTID: NCT05432596 Phase: Phase 2 Class: Best-In-Class Modality: small molecule MoA: JAK1/JAK3 inhibitor Area: Skin and Connective Tissue Diseases Indication: Atopic Dermatitis Human Patients: 250 Sponsor: Aclaris Therapeutics (ACRS)	Date: 7 Jan 2024 Quarter: Q1'24 Batch 14 Technical: SUCCESS (statistically significant clinical benefit) Commercial: FAILURE (commercially insufficient clinical benefit due to crowded market)	Readout: 10 Jan 2024 Lead Time: 3 days in advance Interpretation: ATI1777 achieved 70% EASI with 11% delta vs dupilumab that achieved 72-80% EASI with 40% delta.	Correct Prediction Conclusion: statistically significant and commercially insufficient Classification: True Negative (TN)
1254	DYNE-101 NCTID: NCT05481879 Phase: Phase 1 Phase 2 Class: First-In-Class Modality: small interfering RNA (siRNA) antisense oligonucleotide MoA: anti-DMPK siRNA Area: Musculoskeletal Diseases Indication: Myotonic Dystrophy Type 1 Human Patients: 72 Sponsor: Dyne Therapeutics (DYN)	Date: 21 Nov 2023 Quarter: Q1'24 Batch 7 Technical: SUCCESS (statistically significant clinical benefit in toxicity) Commercial: FAILURE (commercially insufficient clinical benefit in 10MWR)	Readout: 3 Jan 2024 Lead Time: 43 days in advance Interpretation: 40% DMPK knowddown and 3.8 second benefit in myotonia at 6 months; no report of key 10MWR functional endpoints.	Correct Prediction Note: correct technical prediction (commercial data TBD) Conclusion: statistically significant and commercially TBD Classification: True Positive (TP)
963	Efgartigimod NCTID: NCT04598451 Phase: Phase 3 Class: First-In-Class Modality: antibody fragment	Date: 4 Jul 2023 Quarter: 2H'23 Batch 9 Technical: FAILURE (statistically insignificant additive clinical benefit)	Readout: 20 Dec 2023 Lead Time: 169 days in advance Interpretation: primary or secondary endpoints not met.	Correct Prediction Conclusion: statistically insignificant and commercially insufficient

Validated Trial Evidence: Filtered Registry (144 of 604 trials)

Filtered view: Immunology

#	Clinical Trial	Certified Prediction	Validation	Result
	biologic MoA: anti-FcRn antibody fragment Area: Skin and Connective Tissue Diseases Indication: Pemphigus Human Patients: 222 Sponsor: argenx (ARGX)	Commercial: FAILURE (commercially insufficient additive clinical benefit)		Classification: True Negative (TN)

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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