



Corporate Presentation

January 2025

FLS

This presentation contains forward-looking statements within the meaning of applicable securities laws and regulations including, but not limited to, statements regarding: the expected design, timing of initiation and receipt of topline results from the ALPHA-ORBIT trial; the goals and objectives of the ALPHA-ORBIT trial and the long-term extension trial, including that they would support registration of Q3M and Q6M administration, and potentially accelerate the availability of Q6M administration; our expectations for the dosing regimens of navenibart and the efficacy data of navenibart in the ALPHA-ORBIT trial; the potential therapeutic benefits of navenibart as a treatment for HAE; the potential attributes and profile of navenibart as a treatment for HAE, including our expectation that it will be the market-leading, first choice and a potentially life-changing treatment for patients with HAE; our overall vision and goals for the navenibart program; expectations about being funded through top-line Phase 3 results and our cash runway; and our corporate strategy and vision, including our mission to bring life-changing therapies to patients and families affected by allergic and immunologic diseases. The use of words such as, but not limited to, "anticipate," "believe," "continue," "could," "estimate," "expect," "goals," "intend," "may," "might," "plan," "potential," "predict," "project," "should," "target," "will," "would," or "vision," and similar words and expressions are intended to identify forward-looking statements. Forward-looking statements are neither historical facts nor assurances of future performance. Instead, they are based on Astria's current beliefs, expectations and assumptions regarding the future of its business, future plans and strategies, future financial performance, results of pre-clinical studies and clinical trials of Astria's product candidates and other future conditions. Actual results may differ materially from those indicated by such forward-looking statements as a result of various important factors, including risks and uncertainties related to: changes in applicable laws or regulations; the possibility that we may be adversely affected by other economic, business, and/or competitive factors; risks inherent in pharmaceutical research and development, such as: adverse results in our drug discovery, preclinical and clinical development activities, the risk that the results of preclinical studies may not be replicated in clinical trials, that the preliminary, initial or interim results from clinical trials may not be indicative of the final results, that the results of early stage clinical trials, such as the results from the ALPHA-STAR Phase 1b/2 clinical trial, may not be replicated in later stage clinical trials, such as the ALPHA-ORBIT trial and the open-label extension trial, the risk that we may not be able to enroll sufficient patients in our clinical trials on a timely basis, and the risk that any of our clinical trials, including ALPHA-ORBIT, may not commence, continue or be completed on our anticipated timelines, or at all; decisions made by, and feedback received from, the FDA and other regulatory authorities on our clinical trial design, including for ALPHA-ORBIT, and on our regulatory and clinical trial submissions, including receipt of FDA minutes from our December 2024 end of Phase 2 meeting, and other feedback from potential clinical trial sites, including investigational review boards at such sites, and other review bodies with respect to navenibart, STAR-0310, and any other future development candidates, decisions that we make about the design of clinical trials in response to regulatory feedback, including the design of the ALPHA-ORBIT trial and the long-term extension trial; our ability to manufacture sufficient quantities of drug substance and drug product for navenibart, STAR-0310, and any other future product candidates on a cost-effective and timely basis, and to develop dosages and formulations for navenibart, STAR-0310, and any other future product candidates that are patient-friendly and competitive; our ability to develop sufficient data to enable the use of planned devices with navenibart, STAR-0310 and any other future product candidates at commercial launch or otherwise as planned; our ability to develop biomarker and other assays, along with the testing protocols therefor; our ability to obtain, maintain and enforce intellectual property rights for navenibart, STAR-0310 and any other future product candidates; our potential dependence on collaboration partners; competition with respect to navenibart, STAR-0310, or any of our other future product candidates; the risk that survey results, modeling data and market research may not be accurate predictors of the commercial landscape for HAE, the ability of navenibart to compete in HAE and the anticipated position and attributes of navenibart in HAE based on clinical trials of STAR-0310 may not commence, continue or be completed on time, or at all; risks that results of preclinical studies of STAR-0310 will not be replicated in clinical trials; our ability to manage our cash usage and the possibility of unexpected cash expenditures; our ability to obtain necessary financing to conduct our planned activities and to manage unplanned cash requirements; the risks and uncertainties related to our ability to recognize the benefits of any additional acquisitions, licenses or similar transactions; and general economic and market conditions; as well as the risks and uncertainties discussed in the "Risk Factors" section of our Annual Report on Form 10-K for the period ended December 31, 2023 and in other filings that we may make with the Securities and Exchange Commission. New risks and uncertainties may emerge from time to time, and it is not possible to predict all risks and uncertainties. Astria may not actually achieve the forecasts or expectations disclosed in our forward-looking statements, and investors and potential investors should not place undue reliance on Astria's forward-looking statements

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Building a Leading Allergy and Immunology Company



Transforming science that works...

...into therapies that patients want

navenibart

HEREDITARY ANGIOEDEMA (HAE)

- Half-life extended monoclonal antibody inhibitor of plasma kallikrein
- Trusted mechanism and modality
- Potential for Q3M and Q6M administration

star - 0310

ATOPIC DERMATITIS (AD) & BEYOND

 Half-life extended monoclonal antibody antagonist of OX40

- Clinically-validated mechanism
- Potential best-in-class efficacy and safety



Astria's Pipeline Has Multiple Potential Near-Term Catalysts

PROGRAM	DISCOVERY	PRECLINICAL	PHASE 1	PHASE 2	PHASE 3	RECENT & EXPECTED MILESTONES
NAVENIBART (STAR-0215) Anti-plasma kallikrein half-life extended mAb		Hereditary Angio	oedema			 ✓ Q4 2024: Final results from Phase1b/2 ALPHA-STAR trial ✓ Q1 2025:
STAR-0310 Anti-OX40 half-life extended mAb		Dermatitis d Indications				 Year-End 2024: IND submission Q1 2025: Phase 1a initiation Q3 2025: Phase 1a results



Developing the Potential Market-Leading HAE Treatment: Navenibart Phase 3 Program



- Single 6-month pivotal Phase 3 trial and long-term extension designed with both
 Q3M and Q6M administration
- Pioneering expected patient-centric dosing flexibility in HAE with potential marketleading first-choice profile
- Expected to initiate this quarter, with top-line results expected in early 2027



Navenibart Designed for Best Patient Experience

Navenibart Vision

SCIENCE THAT WORKS:



Monoclonal antibody inhibitor of plasma kallikrein



High affinity and potency with fast onset



YTE modification for extended half-life



• Citrate-free, high-concentration formulation

THERAPY THAT PATIENTS WANT:

- Trusted mechanism and modality with established safety
- Rapid, effective prevention against HAE attacks
- Infrequent administration expected every 3 and 6 months
- Well-tolerated, pain-free, autoinjector-enabled administration



HAE: Significant Opportunity to Improve Lives

PREVALENCE

1 in 50,000 - 80,000 people worldwide (<8k US, <15k EU) ^{1,2,3,4}

COMMERCIAL OPPORTUNITY

2023 HAE Market⁵ **\$2.8B**



2030 Estimated HAE Market^{5,6} \$5.4B



Market growth driven by:

Patients being diagnosed earlier

3. Lumry, W.R. Front Med. 2018; 5, 22.

- More patients taking preventative treatments
- Geographic expansion for currently available therapies





 Kanepa A, Nartisa I, Rots D, Gailife L, Farkas H, Kurjane N. National survey on clinical and genetic characteristics of patients with hereditary angioedema in Latvia. Allergy Asthma Clin Immunol. 2023;19(1):28.
 Busse, P.J. et al. JACI. 2021; 132-150.

Aygören-Pürsün, E. et.al. Orphanet j Rare Dis. 2018; 13:73.
 EvaluatePharma

HAE Treatment
Preventative

On-Demand

Astria company research and analysis

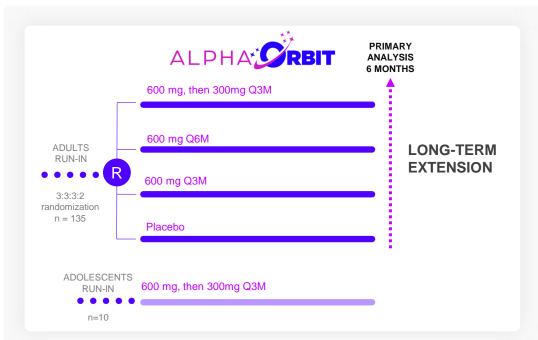
ALPHA PRIT Phase 3 Trial Strategy

- Our goal is to revolutionize the way that patients manage their HAE
- Phase 3 designed to evaluate both Q3M and Q6M regimens with the goal of providing options for patients that, if approved, would ultimately create flexibility in how patients manage their disease
- Planned Phase 3 dose selection determined from cumulative program data
- Phase 3 program was designed with input from the EMA and end of Phase 2 meeting with the FDA held in December 2024



A Single, Global Phase 3 Pivotal Trial Designed to Assess Efficacy and Safety for Both Q3M and Q6M Administration of Navenibart in HAE

6-Month Primary Analysis



Population: Adolescents and adults with HAE Types 1 and 2

Primary Endpoint at 6 months:

 Number of time-normalized investigator-confirmed HAE attacks in the 6-month treatment period

Secondary Endpoints at 6 months¹:

- Proportion of participants attack-free at 6 months
- Number of moderate/severe HAE attacks
- Number of attacks that require on-demand treatment

All dose regimens expected to meet or exceed the efficacy of current market-leading product^{2,3,4}



Selected secondary endpoints shown.

^{2 -} randomization

^{2.} Banerji et al (2018), JAMA 3. TAKHZYRO US Prescribing Information (Feb 2023) 4. Astria QSP analysis

Long-Term Extension Trial to Support Navenibart's Registration and Profile in HAE

- ALPHA-ORBIT participants on drug may be eligible to continue on the same dose regimen through Part 1
- Placebo patients enter 600 mg Q3M arm
- Primary objective: assess longterm safety and tolerability of navenibart





Path to ALPHA-ORBIT Success



NAVENIBART'S PROFILE

- Trusted mechanism and modality
- Strong proof-ofconcept and safety profile to-date
- Q3M and Q6M administration
- Low risk for administration pain



OUR COLLABORATION WITH HAE COMMUNITY

- ALPHA-ORBIT designed with input from patients and physicians from around the world
- Design reflects feedback from FDA and CHMP



OUR HISTORY OF STRONG EXECUTION

- Phase 1b/2 enrolled faster than anticipated
- Expanded enrollment has allowed additional site experience that lays foundation for Phase 3



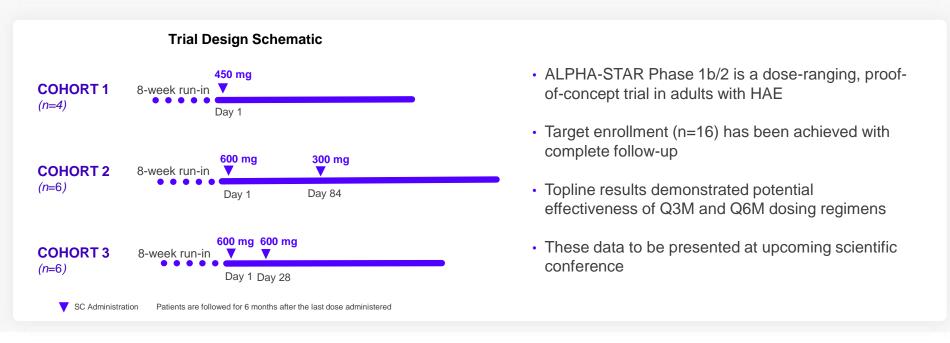
OUR COMMITMENT TO OPERATIONAL EXCELLENCE

- Wide footprint, global trial
- Robust physician outreach to date
- Site recruiting activities are ongoing





ALPHA-STAR Informed Q3M and Q6M Dosing







ALPHA-STAR Phase 1b/2 Results Established Proof-of-Concept and Path for Potential Phase 3 Success

ALPHA-STAR Phase 1b/2 6-Months Results Summary

Navenibart Summary

91-95% Attack Rate Reduction 25-67% Attack-Free Rate

95-96% Reduction in Moderate and Severe Attack Rate 91-94% Reduction in Attacks Requiring Rescue Medication

0%
Injection
Site Pain

2 or 4
Doses Per
Year¹

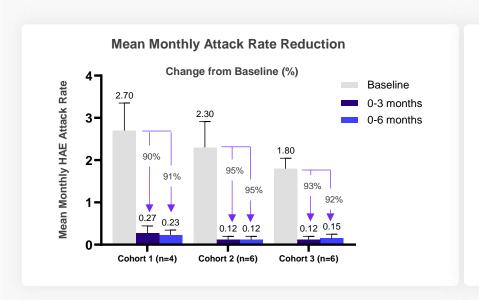
6-Month Phase 3 Results Summaries

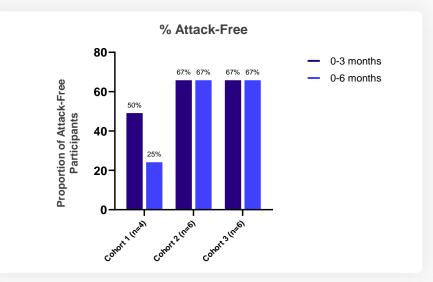
	Attack Rate Reduction	Attack-Free Rate	Reduction in Moderate and Severe Attack Rate	Reduction in Attacks Requiring Rescue Medication	Injection Site Pain	Doses Per Year
Lanadelumab ^{2,3}	87%	44%	83%	87%	52%	26
Berotralstat ^{4,5,6} 150 mg QD	44%	8%	40%	49%	N.A.	365
Garadacimab ⁷ 200 mg Q4W	87%	72%	90%	88%	N.R.	13
Donidalorsen ⁸ 80 mg Q4W	81%	53%	89%	92%	N.R.	12





Navenibart Demonstrated 6 Months of HAE Attack Prevention with 1 or 2 Doses









Navenibart Was Well-Tolerated and Demonstrated a Favorable Safety Profile

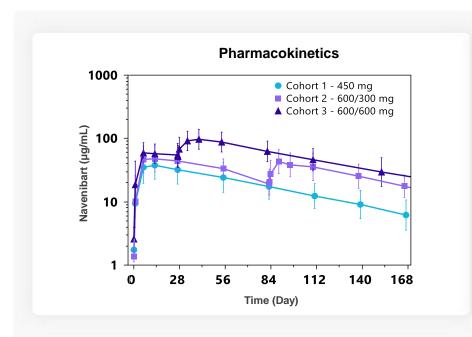
	Cohort 1 (N=4)	Cohort 2 (N=6)	Cohort 3 (N=6)	Total (N=16)*
Participants with at least 1 Treatment- Emergent Adverse Event (TEAE)	4	5	6	15
TEAEs occurring in ≥ 2 participants				
Nasopharyngitis	1	1	2	4
Sinusitis	-	1	1	2
Headache	2	-	-	2
Participants with at least 1 related TEAE ¹	-	1	2	3
Injection site erythema	-	-	1	1
Injection site pruritus	-	-	1	1
Injection site rash	-	-	1	1
Dizziness	-	1	-	1

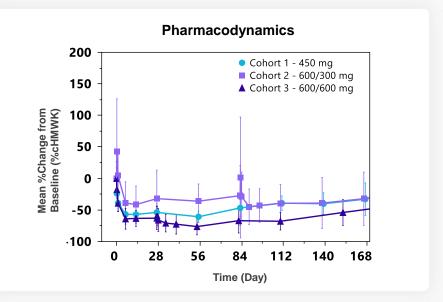
No serious adverse events (SAEs) and no discontinuations due to TEAE





Results Show that Navenibart PK and PD Are Consistent with Rapid and Durable Clinical Benefit

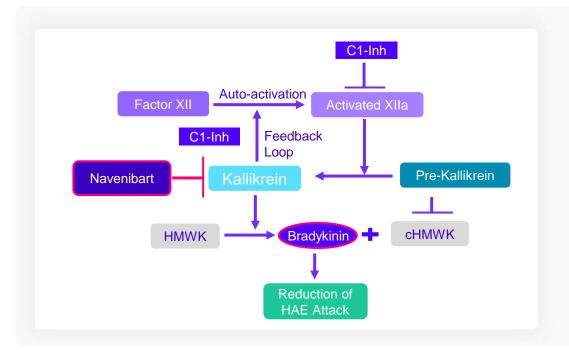




Maximum lanadelumab effect -53.7% 1



Mechanistic QSP Model Informed Phase 3 Dose Selection



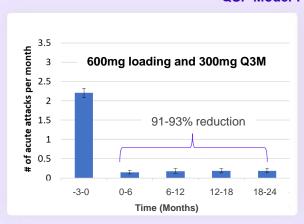
Mechanistic Quantitative Systems Pharmacology (QSP) Model

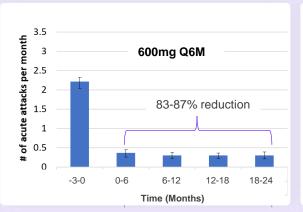
- Validated model in HAF¹
- •Model integrates HAE pathophysiology with accumulated navenibart preclinical and clinical data including:
 - C1-Inh activity
 - Baseline attack frequency
 - PK characteristics
 - PD (cHMWK levels)
- •Simulations of various dose regimens in virtual HAE patients informed dose selection

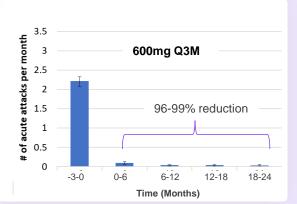


Navenibart Has the Potential to be the Market-Leading HAE Preventative Therapy









Phase 3 Results Summaries: 6-Month Time-Normalized Monthly HAE Attack Rate^{2,3,4,5,6,7}

Lanadelumab 300 mg Q2W (70% of use) ⁸	Lanadelumab 300 mg Q4W (30% of use) ^s	Berotralstat 150 mg QD	Garadacimab 200 mg Q4W	Donidalorsen 80 mg Q4W	Donidalorsen 80 mg Q8W
87%	73%	44%	87%	81%	55%



Navenibart Dosing Flexibility Has the Potential to Transform the Treatment of HAE

Patients and physicians increasingly recognize flexible dosing as most appropriate care.

For example, VABYSMO (faricimab-svoa) revolutionized the wet AMD and DME markets with dosing flexibility (\$3.2B USD in sales as of 9/30/20241)

TAKHZYRO (lanadelumab), the current HAE market-leading product (\$1.0B USD in sales as of 9/30/2024^{2,3,4}) is dosed every 2 weeks with the potential to extend the dosing interval to every 4 weeks

Navenibart Phase 3 program is designed to enable dosing flexibility

Navenibart has potential to deliver efficacy at or better than TAKHZYRO with the ability for patients and clinicians to decide what works best for them with dosing every 3 or 6 months





- Roche. YTD September 2024 sales (2024).
- 2. Takeda Pharmaceutical Co. Takeda Quarterly Financial Report For the Quarter Ended March 31, 2024. (2024).
- 3. Takeda Pharmaceutical Co. Takeda Quarterly Financial Report For the Quarter Ended June 30, 2024. (2024).
- 4. Takeda Pharmaceutical Co. Takeda Quarterly Financial Report For the Quarter Ended September 30, 2024. (2024).

Advancing Navenibart to Become the Potential Market-Leading Treatment for HAE

Growing HAE
Market
Expected to
be \$5.4B by
2030

Compelling
Navenibart
Clinical Profile
that Supports
Potential Q3M
and Q6M
Administration

Pioneering
Potential
PatientCentric
Dosing
Flexibility

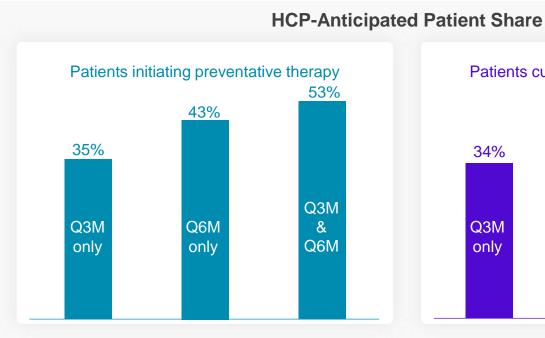
Building
Expected
Patient Share
From Both
Switches and
New Starts

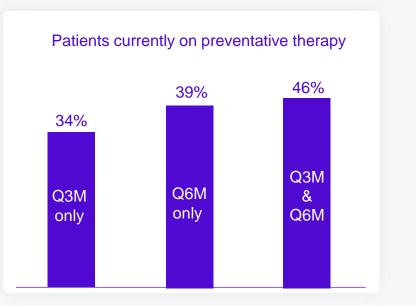
Our goal with navenibart

is to revolutionize the treatment of HAE



Providing Patients Both Q3M and Q6M Options Would Allow Individual Choice and Address the Needs of a Broader Population



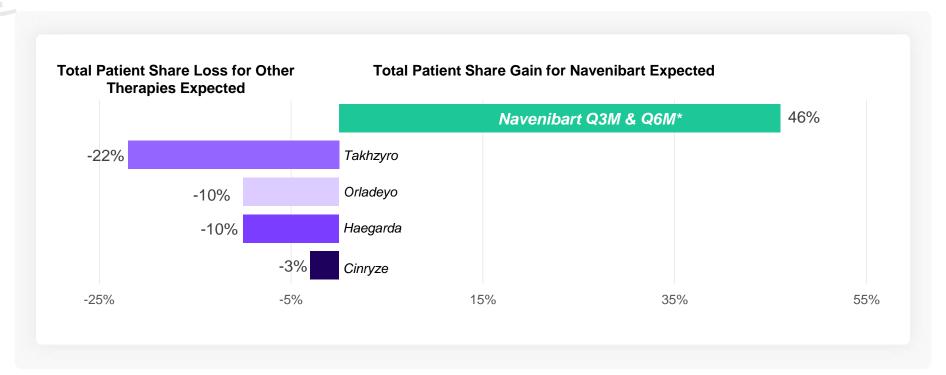




Navenibart profile*

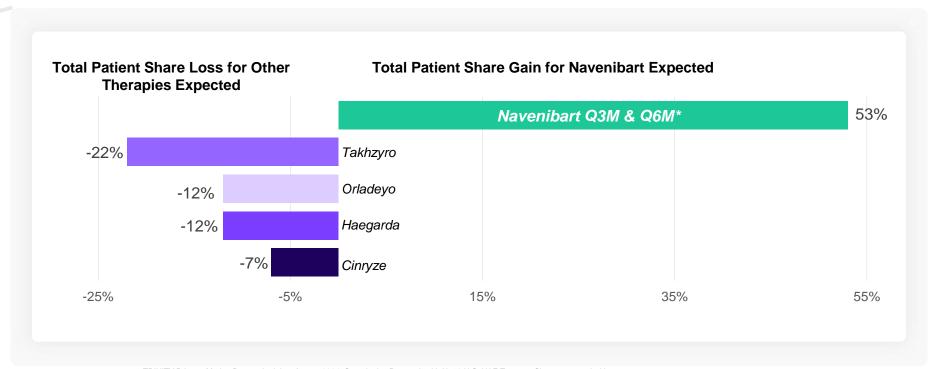


Navenibart Expected to Draw Switches from Other Current Therapies





Navenibart Expected to Draw Patients From Newly Initiating Preventative Therapies





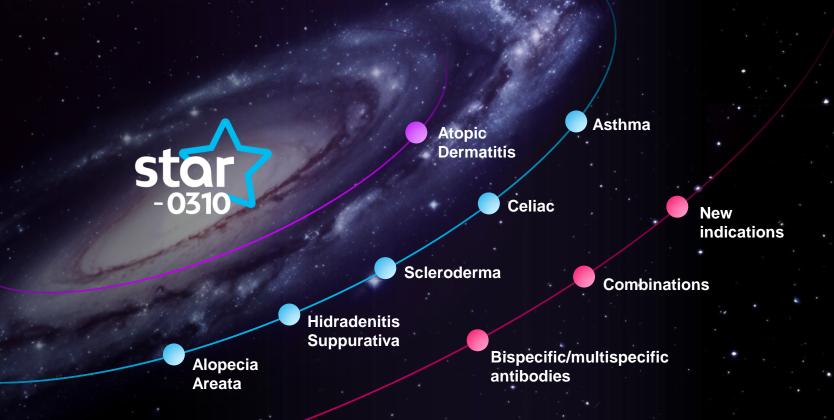




Taking a medication 2 or 4 times a year would mean freedom for me. That is the closest thing to a normal life that I could imagine. I could travel. I could make plans without checking the day of the week."

COLI

OX40 Has Broad Opportunities in Allergy and Immunology





Atopic Dermatitis: Opportunity for Broad Impact on Patients' Lives

PREVALENCE

16 million people in the U.S. have AD¹ About half of those people are reported to be moderate-to-severe¹

COMMERCIAL OPPORTUNITY







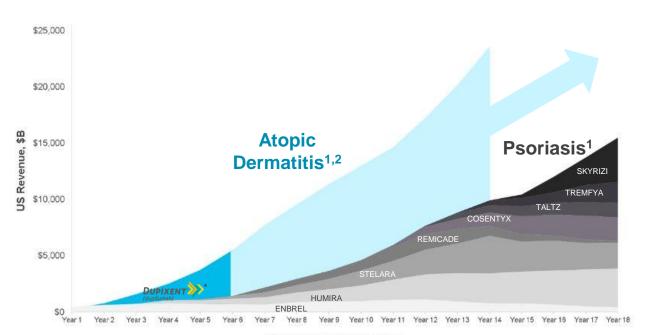


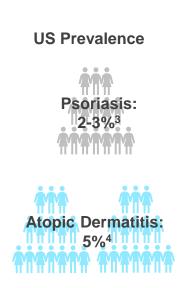
Treatment

- Topicals and immunosuppressants
- Advanced treatment*

^{1.} Barbarot S, et al. Allergy. 2018 Jun;73(6):1284-1293. doi: 10.1111/all.13401

Proven Precedence for Market Growth and Evolution for Targeted Dermatology Therapies





Year After Biologic Launch



^{*} Includes Cibingo and Rinvog.

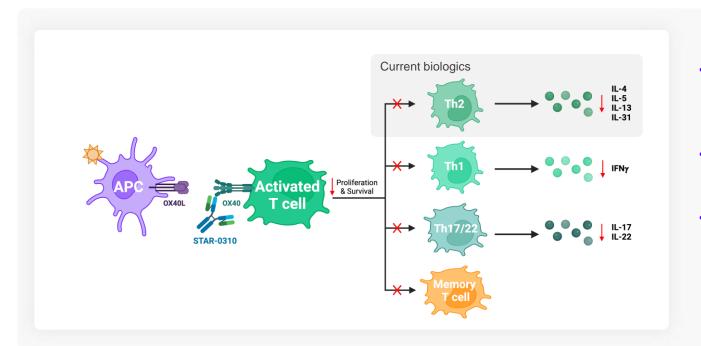
^{1.} Evaluate Pharma Consensus Sales by Indication in the US

^{2.} Decision Resources Group: Atopic Dermatitis Disease Landscape & Forecast, July 2023

^{3.} Damiani, G. et al. Front Med (Lausanne) 2021 Dec 16:8:743180. doi: 10.3389/fmed.2021.743180

^{4.} Barbarot S, et al. Allergy. 2018 Jun;73(6):1284-1293. doi: 10.1111/all.13401

Targeting OX40 Has Potential for Disease Modification



- AD is driven by a diversity of T cells, including Th1, Th2 and Th17/22
- Current biologics target only the Th2 pathway
- Targeting OX40 impacts Th cells broadly and may result in higher rates of clinical response



STAR-0310 Shows Potential for Differentiation from Late-Stage OX40/OX40L Programs



Anti-OX40 Monoclonal Antibodies

Precise Targeting of Activated T Cells



Anti-OX40L Monoclonal Antibody Widely Targeting Inflammatory Cells



STAR-0310

- Fully humanized, IgG1
- Full antagonist
- Low ADCC and T cell preserving
- YTE half-life extended
- STAR-0310 is optimally designed to target the receptor with high affinity, high potency, and long half-life



Rocatinlimab^{2,3,6}

- Fully human, afucosylated, IgG1
- Depletes T cells via enhanced ADCC
- T cell depletion leads to cytokine release (pyrexia and chills) and potential increased risk of infection
- Top-line data from 1st Phase 3 trial shared



Amlitelimab^{1,2,5}

- Fully human, IgG4
- OX40L is widely expressed on APCs
- Binding OX40L may increase risk for upper respiratory infection, nasopharyngitis, respiratory, and vascular AEs
- Positive Phase 2a and 2b results in AD
- Ph 3 in AD ongoing

APCs=antigen presenting cells. These include epithelial, endothelial, smooth muscle, mast and B cells. AEs= adverse events



STAR-0310:

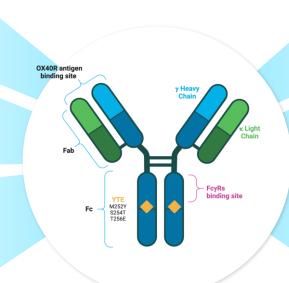
Engineered to Differentiate on Efficacy, Safety, and Treatment Burden

High Affinity, Next Generation Anti-OX40 antibody

Selective Potency for Activated T-Cells

Potential Best-in-Class Safety Profile Designed for low ADCC and to be T cell preserving

excluding potentially applicable patent term extension



Extended Half-Life with YTE technology

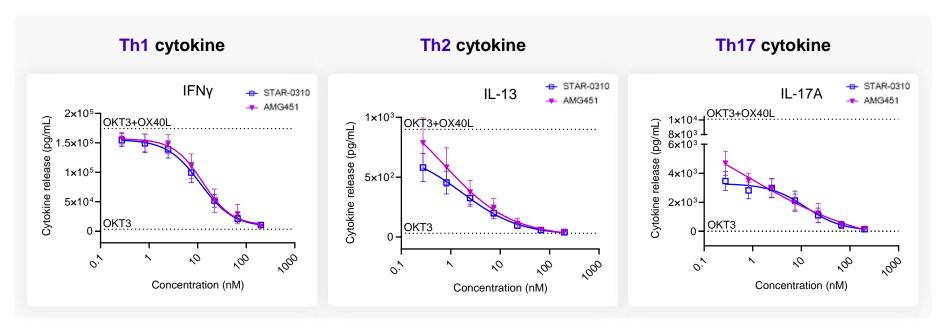
Potential for Low Volume, Infrequent SC Delivery

Patent Pending Technology U.S. provisional patent application filed, potential patent expiry 20443



STAR-0310 Has High Potency for OX40

STAR-0310 and Rocatinlimab Have Similar Potency on Effector T (Th) Cells

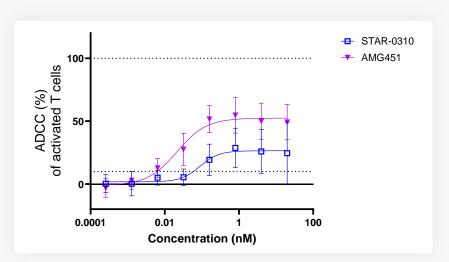




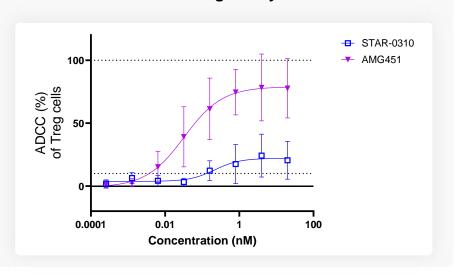
STAR-0310 Is Engineered for Low ADCC

STAR-0310 Has Lower ADCC than Rocatinlimab

ADCC on Activated T Cells



ADCC on Regulatory T Cells

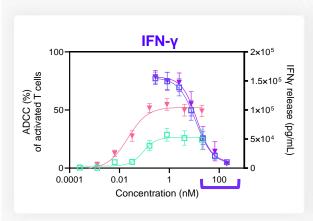


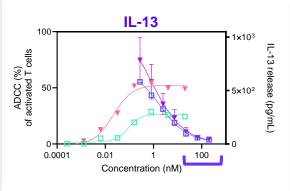


STAR-0310 Has Potential for Best-in-Class Efficacy

STAR-0310 Has a Potentially Wider Therapeutic Window

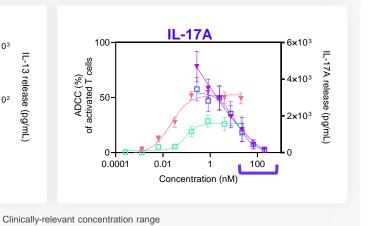
In vitro Activated T Cell ADCC (%) Compared to Potency for Th1, 2, and 17/22 Cytokines





STAR-0310 ADCC

AMG451 ADCC

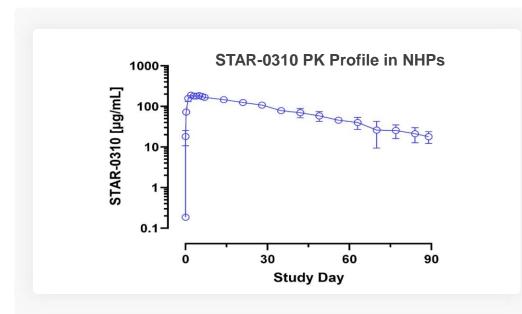




STAR-0310 cytokine

AMG451 cytokine

STAR-0310 Has Potential to be the Least Frequently Administered OX40



Extended half-life with YTE technology

- Estimated mean half-life of 26 days
 - Average 10-14 days in non-half-life extended IgG antibodies
- Expected 2-5 fold increase in half life in humans
- Potential for administration as infrequently as once every 6 months due to long half-life and potential for disease modification



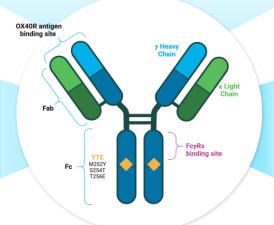
STAR-0310:

Potential First-Choice for Moderate-to-Severe AD

Phase 1a Initiation Anticipated in Q1 2025

Best-in-Class Efficacy

Better Safety and Tolerability



Least Frequently
Administered OX40



Recent and Expected Milestones



HEREDITARY ANGIOEDEMA



Q3 & Q4 2024: Orphan Drug and Orphan Medicinal Product Designations

Q4 2024: Final ALPHA-STAR target enrollment results

Q1 2025: Initiate Phase 3 trial

Mid-2025: Long-term treatment results from ALPHA-SOLAR



ATOPIC DERMATITIS

- Mid 2024: Present preclinical profile
- YE 2024: IND submission
- Q1 2025: Initiate Phase 1a healthy subject trial
- Q3 2025: Phase 1a results
- Q3 2025: Initiate Phase 1b trial



Strong Financial Foundation

Astria (Nasdaq: ATXS)

- Cash, cash equivalents, and short-term investments as of 12/31/2024 of over \$325M
- Cash expected to support current operating plan¹ into mid-2027

Equity Summary

	Common	Preferred Stock as Common Equivalents	Pre- Funded Warrants	Total OS Common Equivalents
Outstanding as of 9/30/24	56,434,219	5,184,591	1,571,093	63,189,903



