



Etokimab (Anti-IL-33) Program

Phase 2a Eosinophilic Asthma Clinical Trial

Interim Data Update

September 24th 2018

Safe Harbor Statement



This presentation and the accompanying oral presentation contain “forward-looking” statements within the meaning of the “safe harbor” provisions of the Private Securities Litigation Reform Act of 1995, including, but not limited to: the timing of the release of data from our clinical trials, including etokimab’s Phase 2b clinical trial in moderate-to-severe adult atopic dermatitis patients, etokimab’s Phase 2 clinical trial in adult chronic rhinosinusitis with nasal polyps patients and ANB019’s Phase 2 trials in GPP and PPP patients; the design of and our ability to launch a Phase 2 clinical trial of etokimab in adult chronic rhinosinusitis with nasal polyps patients, a Phase 2b clinical trial of etokimab in severe eosinophilic asthma patients and a Phase 2 clinical trial of ANB019 in PPP patients; the timing of detailed data presentation of etokimab’s Phase 2a clinical trial in severe adult eosinophilic asthma patients; the timing of an IND filing for an anti-inflammatory checkpoint modulator; and the success of our partnership with TESARO and Celgene. Statements including words such as “plan,” “continue,” “expect,” or “ongoing” and statements in the future tense are forward-looking statements. These forward-looking statements involve risks and uncertainties, as well as assumptions, which, if they do not fully materialize or prove incorrect, could cause our results to differ materially from those expressed or implied by such forward-looking statements. Forward-looking statements are subject to risks and uncertainties that may cause the company’s actual activities or results to differ significantly from those expressed in any forward-looking statement, including risks and uncertainties related to the company’s ability to advance its product candidates, obtain regulatory approval of and ultimately commercialize its product candidates, the timing and results of preclinical and clinical trials, the company’s ability to fund development activities and achieve development goals, the company’s ability to protect intellectual property and other risks and uncertainties described under the heading “Risk Factors” in documents the company files from time to time with the Securities and Exchange Commission (SEC). These forward-looking statements speak only as of the date of this presentation, and the company undertakes no obligation to revise or update any forward-looking statements to reflect events or circumstances after the date hereof.

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AnaptysBio: Clinical-Stage Antibody Development Company

Focused on Novel Antibody Medicines for Severe Inflammatory Diseases



Wholly-Owned Anti-Inflammatory Pipeline

Etokimab (ANB020, Anti-IL-33)

Atopic Dermatitis, Eosinophilic Asthma & Chronic Rhinosinusitis with Nasal Polyps

ANB019 (Anti-IL-36R)

Generalized Pustular Psoriasis & Palmoplantar Pustulosis

Checkpoint Modulator

Inflammatory Diseases

Rapid Antibody Generation Platform Technology

Antibody
Discovery

Preclinical &
Translational

IND or
Equivalent Filing

~2.5 years

Antibody Medicines For Severe Diseases

Validating Product Partnerships
Generated ~\$75MM*

- ✓ TESARO
- ✓ Celgene

4 Additional Efficacy Readouts Anticipated By End 2019

- Etokimab Eosinophilic Asthma Phase 2a: Top-line data today
- ANB019 Generalized Pustular Psoriasis Phase 2: Top-line data in early 2019
- Etokimab Atopic Dermatitis Phase 2b: Top-line data in H2 2019
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- ANB019 Palmoplantar Pustulosis Phase 2: Top-line data in H2 2019

* As of June 30th 2018

Wholly-Owned and Partnered Product Pipeline




6 AnaptysBio-Generated Antibodies Advanced to Clinic Since Q1 2016



AnaptysBio

TESARO

Celgene

Program	Therapeutic Indication	Development Stage & Anticipated Milestones					Commercial Rights
		Discovery	Predinical	Phase 1	Phase 2	Phase 3	
Etokimab (ANB020): Anti-IL-33	Moderate-to-Severe Atopic Dermatitis				Phase 2a Data Presented at AAD and EAACI 2018	ATLAS: Phase 2b Top-Line Data H2 2019	
	Eosinophilic Asthma				Phase 2a Top-Line Data Sep 2018	Phase 2b To Be Initiated in 2019	
	Chronic Rhinosinusitis With Nasal Polyps				ECLIPSE: Phase 2 To Be Initiated Top-Line Data H2 2019		
ANB019: Anti-IL-36R	Generalized Pustular Psoriasis				GALLOP: Phase 2 Top-Line Data Early 2019		
	Palmoplantar Pustulosis				POPLAR: Phase 2 Top-Line Data H2 2019		
Anti-Inflammatory Checkpoint Modulator	Inflammation		IND Filing H2 2019				
TSR-042: Anti-PD-1	Immuno-Oncology				Registration Trial Ongoing		
TSR-022: Anti-TIM-3	Immuno-Oncology				TSR-042 Combination Trial Ongoing		
TSR-033: Anti-LAG-3	Immuno-Oncology				TSR-042 Combination Trial Ongoing		
TSR-075: Anti-PD-1/ LAG-3 Bispecific	Immuno-Oncology		IND-Enabling Studies Ongoing				
CC-90006: Anti-PD-1 Agonist	Psoriasis				Ongoing		
Undisclosed	Inflammation		Ongoing				

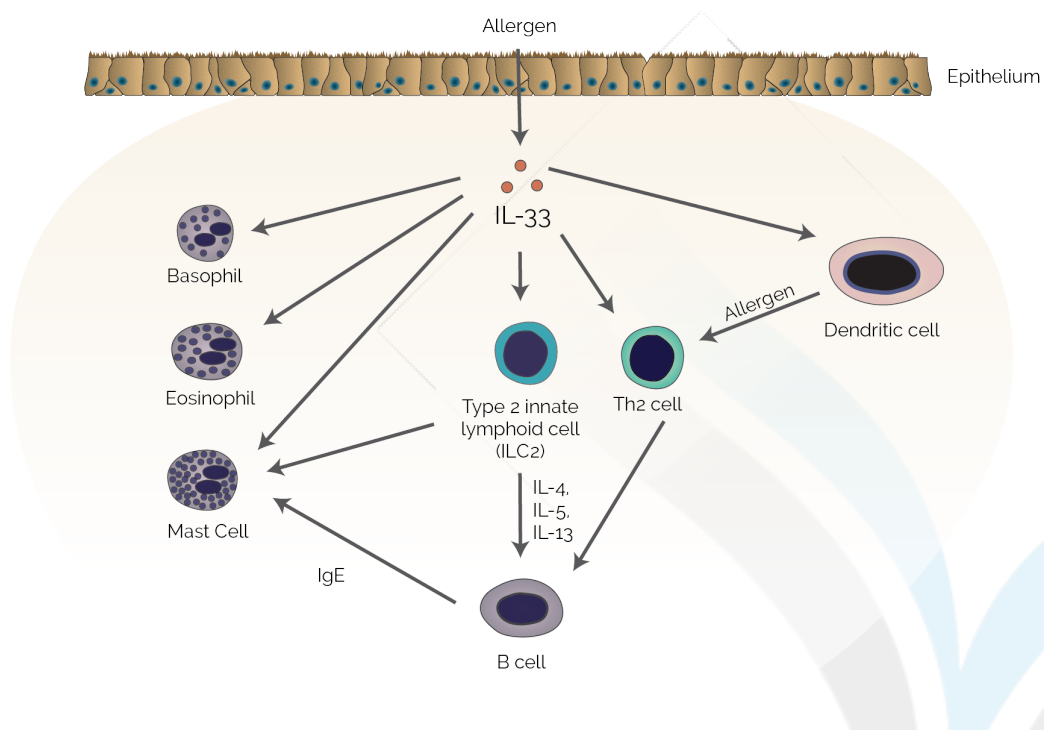
All programs generated internally using AnaptysBio's proprietary antibody generation platform technology

Etokimab: First-in-Class Anti-IL-33 Antibody

Broadly Applicable to Atopic Diseases



- IL-33 is an upstream driver of atopic disease
 - Human genetics validate key role of IL-33 in atopic dermatitis and asthma
 - Pro-inflammatory cytokine released upon allergen contact with epithelium
 - Activates downstream release of IL-4, IL-5 and IL-13
 - Modulates IgE-mediated mast cell and basophil degranulation
- Etokimab is a potentially first-in-class anti-IL-33 cytokine antibody
 - Phase I healthy volunteer trial completed without dose-limiting toxicities
 - AnaptysBio pursuing development in moderate-to-severe atopic dermatitis, eosinophilic asthma and chronic rhinosinusitis with nasal polyps



IL-33 acts as a gatekeeper of allergic response with demonstrated activity in the initiation (activation of ILC2 cells)¹, propagation (activation of allergen-specific T and B cells)² and amplification (degranulation of mast cells and basophils)³.

1. Cayrol et al. *Curr Opin Immunol* (2014) 31:31
2. Peine et al. *Trends Immunol* (2016) 37(5):321
3. Saluja et al. *Clin Transl Allergy* (2015) 5:33

Eosinophilic Asthma

Focus on Severe Patients Inadequately Controlled With ICS/LABA



- Eosinophilic asthma is a debilitating, chronic atopic disease
 - Decreased lung function associated with poor quality-of-life and exacerbations
 - Often concomitant with other atopic diseases, such as chronic rhinosinusitis with nasal polyps and atopic dermatitis
- Significant unmet medical need
 - ~1.1 million US adults diagnosed with severe asthma and inadequately controlled with inhaled corticosteroids and long-acting-beta-agonists (ICS/LABA)
 - Approximately 50% estimated to be eosinophilic asthmatics



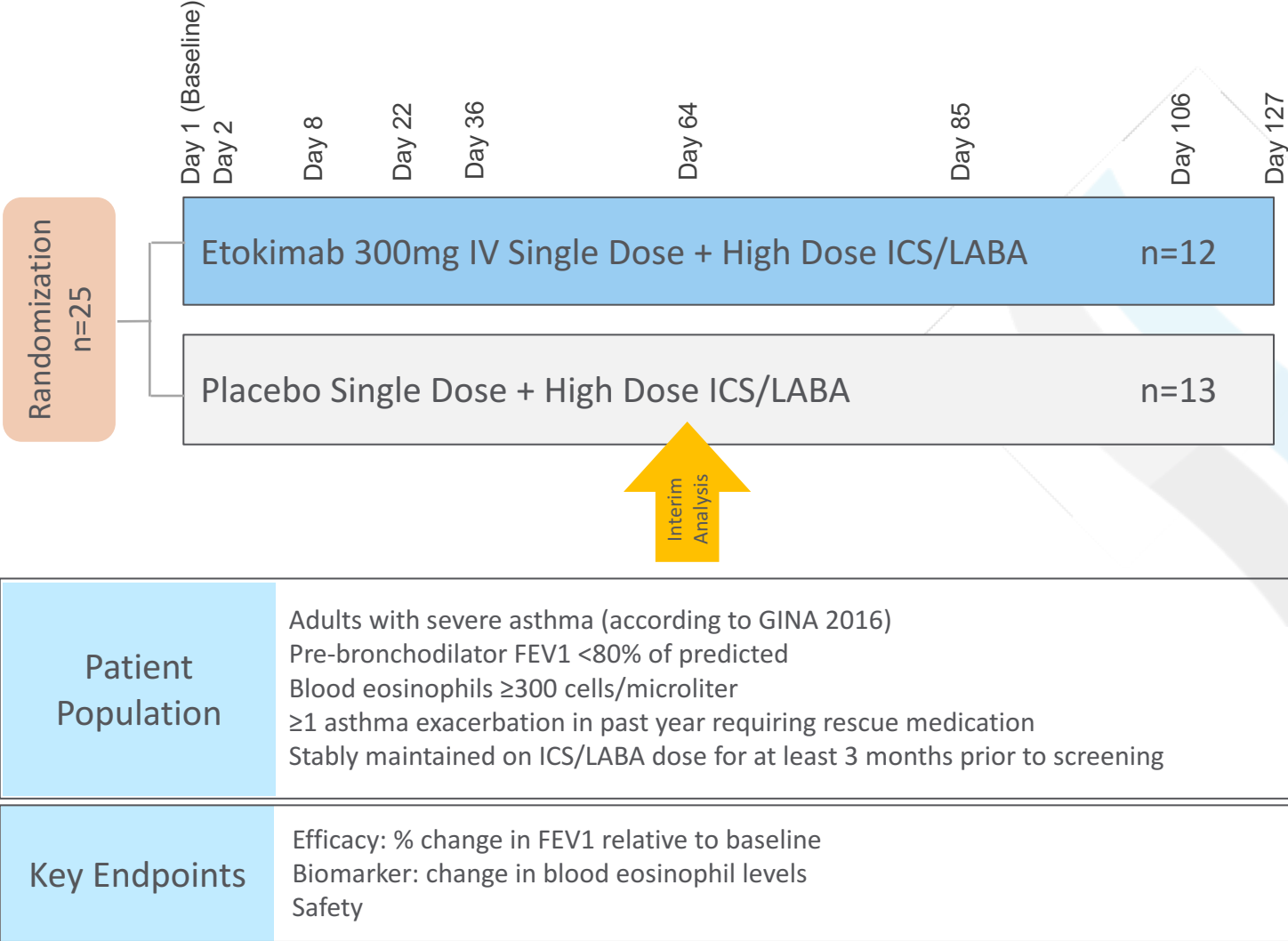
Etokimab Clinical Trials



Subjects	Trial	Trial Design	Key Clinical Endpoint(s)	Timing
Healthy Volunteers	Phase 1	n=96, SAD and MAD cohorts, IV and SC dosing, randomized, placebo-controlled	Safety, PK and PD	Top-line data announced October 2016 Detailed data presented at AAD and AAAAI 2017
Moderate-to-Severe Adult Atopic Dermatitis	Phase 2a	n=12, single IV dose	Eczema Area & Severity Index (EASI)	Top-line data announced October 2017 Detailed data presented at AAD and EAACI 2018
	ATLAS Phase 2b	n=300, SC multi-dose, randomized, placebo-controlled	EASI	Anticipate top-line data in H2 2019
Moderate-to-Severe Baseline Adult Peanut Allergy	Phase 2a	n=20, single IV dose, randomized, placebo-controlled	Oral Food Challenge (OFC)	Top-line data announced March 2018 De-prioritized for commercial reasons
Eosinophilic Asthma	Phase 2a	n=25, single IV dose, randomized, placebo-controlled	Forced Expiratory Volume in 1 Second (FEV1)	Top-line data announced today Detailed data presentation anticipated in 2019
	Phase 2b	Undisclosed	Undisclosed	Anticipate initiation in 2019
Adult Chronic Rhinosinusitis with Nasal Polyps (CRSwNP)	ECLIPSE Phase 2	n=100, SC multi-dose, randomized, placebo-controlled	Nasal Polyps Score (NPS); Sino-Nasal Outcome Test-22 (SNOT-22)	Anticipate top-line data in H2 2019

Etokimab Eosinophilic Asthma Phase 2a Trial

Single Dose of Etokimab or Placebo Administered on Day 1



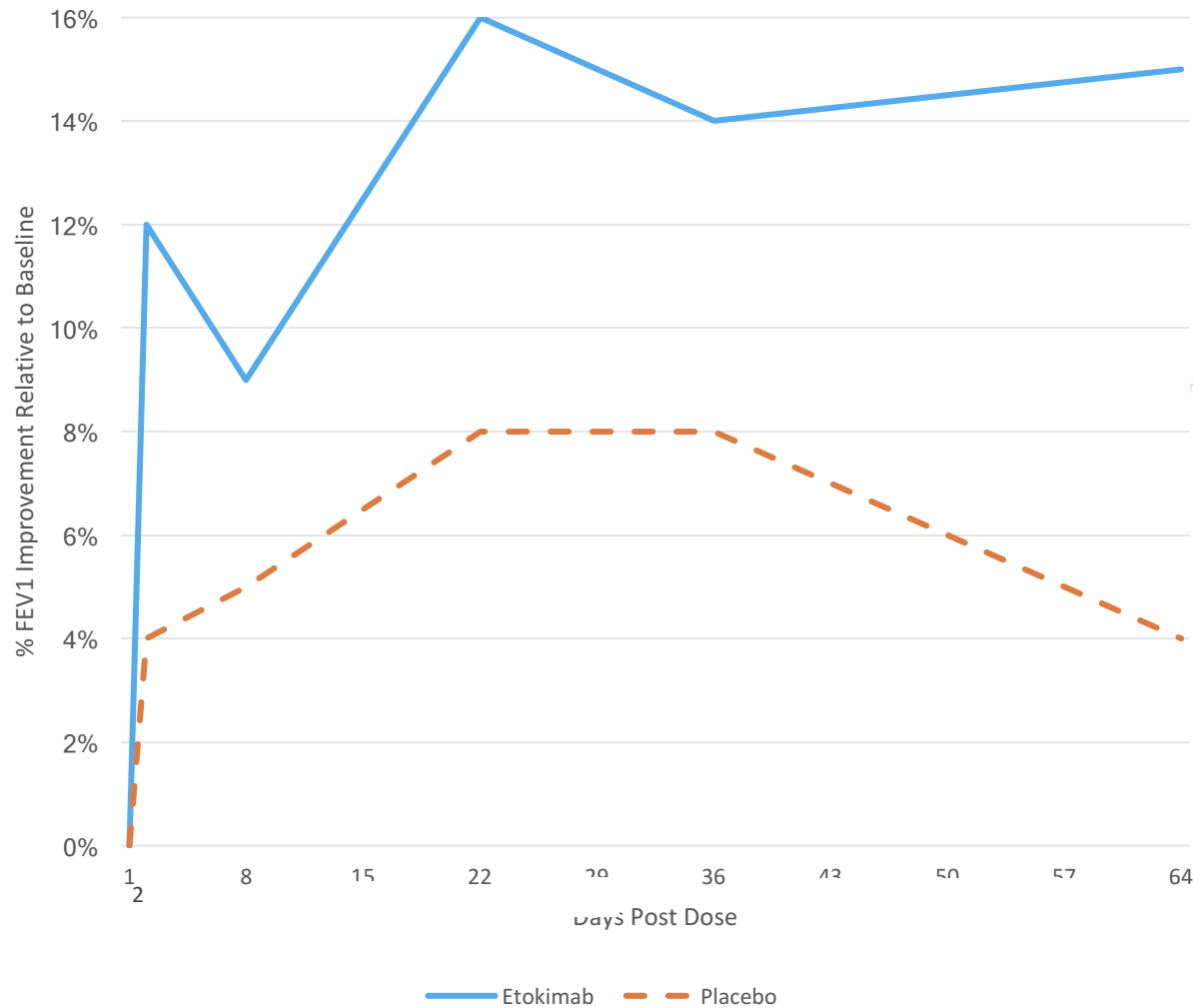
Key Baseline Parameters



Average Baseline Parameters of Enrolled Patients (Day 1 Pre-Dose)	Etokimab Arm	Placebo Arm
n	12	13
Blood Eosinophils per microliter	545	705
FEV1 (Liters)	2.5	2.5
% Predicted FEV1	65%	66%
Age (years)	41	36
Male %	75% (9 of 12)	69% (9 of 13)

% FEV1 Improvement Relative to Baseline After Single Dose

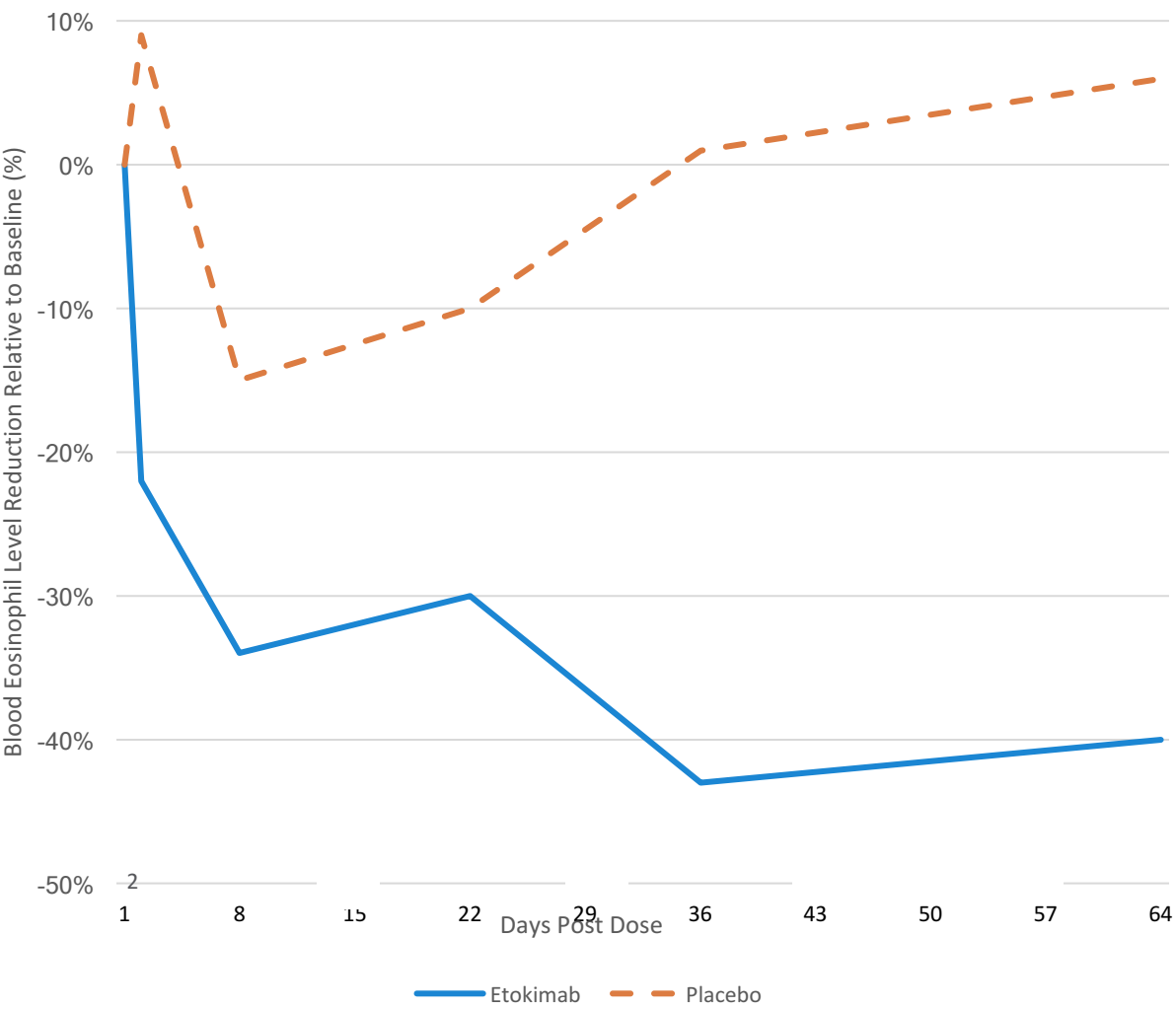
Rapid and Sustained FEV1 Improvement Post-Etokimab Administration



Timepoint	Etokimab	Placebo	Net
Day 1 (Baseline)	0%	0%	0%
Day 2	12%	4%	8%
Day 8	9%	5%	4%
Day 22	16%	8%	8%
Day 36	14%	8%	6%
Day 64	15%	4%	11%

Blood Eosinophil Reduction Relative to Baseline After Single Dose

Correlates with FEV1 Improvement and Consistent With Phase 2a Atopic Dermatitis Trial



Timepoint	Etokimab	Placebo	Net
Day 1 (Baseline)	0%	0%	0%
Day 2	-22%	9%	-31%
Day 8	-34%	-15%	-19%
Day 22	-30%	-10%	-20%
Day 36	-43%	1%	-44%
Day 64	-40%	6%	-46%

Eosinophilic Asthma Phase 2a Day 64 Interim Analysis

Supports Advancement of Etokimab Into Phase 2b Eosinophilic Asthma Trial



Interim Analysis Summary

- Etokimab demonstrated proof-of-concept in eosinophilic asthma
- Single dose of etokimab resulted in rapid and sustained improvement in FEV1 over placebo
- Blood eosinophil biomarker reduction correlated with FEV1 improvement and is consistent with prior etokimab Phase 2a atopic dermatitis trial
- Etokimab was generally well-tolerated and no serious adverse events reported
 - No treatment-emergent adverse events were deemed to be etokimab-related
 - The most frequent treatment-emergent adverse events reported were single occurrences of moderate strep throat in two etokimab-dosed patients and single occurrences of mild vomiting in two placebo-dosed patients
 - No exacerbations or rescue therapy usage was reported

Next Steps

- Complete ongoing Phase 2a trial and present detailed data at a medical conference in 2019
- Initiate Phase 2b randomized, double-blinded, placebo-controlled, multi-dose trial of etokimab in eosinophilic asthma during 2019

Anticipated Milestones

4 Additional Efficacy Readouts Anticipated By End 2019



Program	Milestone	Timing
Etokimab (anti-IL-33)	Moderate-to-Severe Adult Atopic Dermatitis Phase 2a Trial	Top-line data announced October 2017 Detailed data presented at AAD and EAACI 2018
	ATLAS: Moderate-to-Severe Adult Atopic Dermatitis Phase 2b Trial	Initiated H1 2018 Top-line data anticipated in H2 2019
	Severe Adult Eosinophilic Asthma Phase 2a Trial	Top-line data presented today Detailed data to be presented in 2019
	Eosinophilic Asthma Phase 2b Trial	To be initiated in 2019
	ECLIPSE: Adult Chronic Rhinosinusitis with Nasal Polyps Phase 2 Trial	To be initiated by end 2018 Top-line data anticipated in H2 2019
ANB019 (anti-IL-36R)	Healthy Volunteer Top-line Phase I Trial	Top-line data announced November 2017 Detailed data presented at EAACI 2018
	GALLOP: GPP Phase 2 Trial	Initiated H1 2018 Top-line data anticipated in early 2019
	POPLAR: PPP Phase 2 Trial	Initiated H2 2018 Top-line data anticipated in H2 2019

Approximately \$300MM in cash, cash equivalents and investments as of June 30th 2018

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