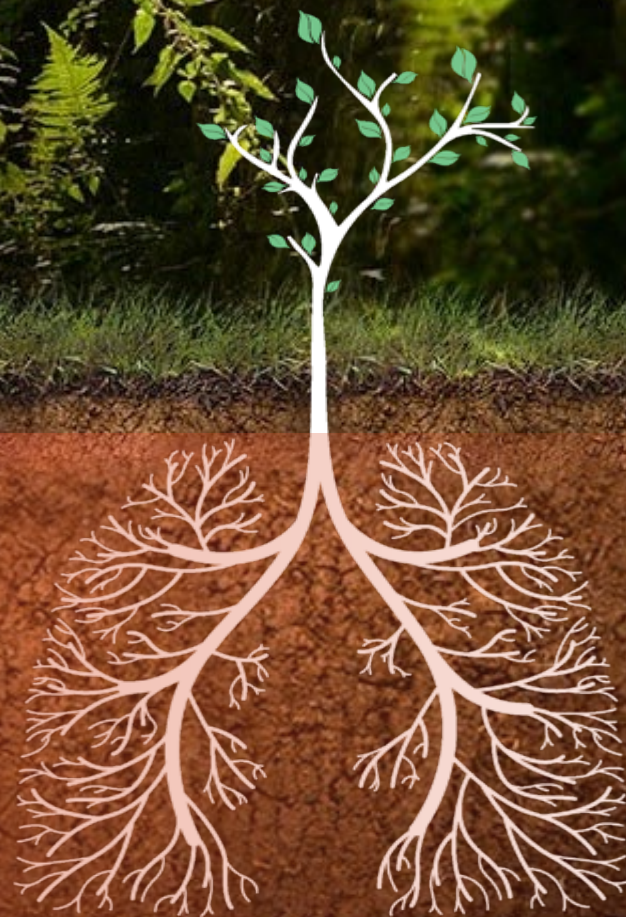


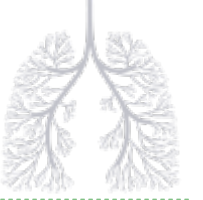


VICORE PHARMA
AIR Interim 2 webcast

4 November 2022



Content



The AT2 Receptor

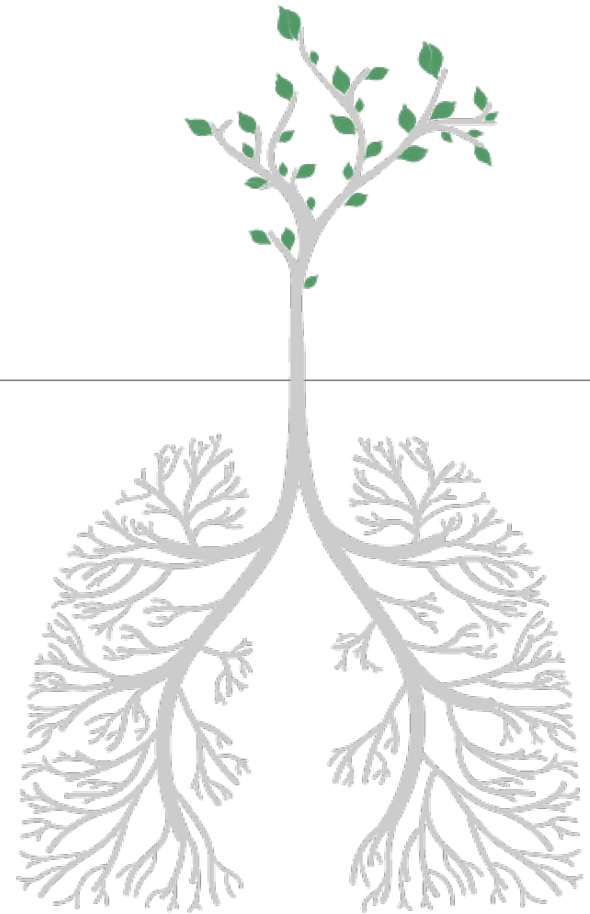
C21 preclinical and clinical data

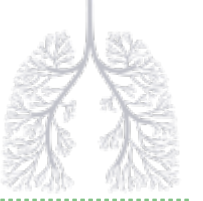
IPF and the type 2 alveolar epithelial cell (AEC2)

Phase 2 data IPF

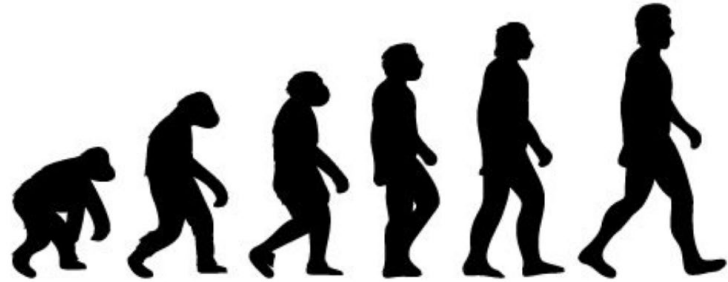
The AT2 receptor

Vicore AIR interim





The Renin Angiotensin System (RAS) – why we have it



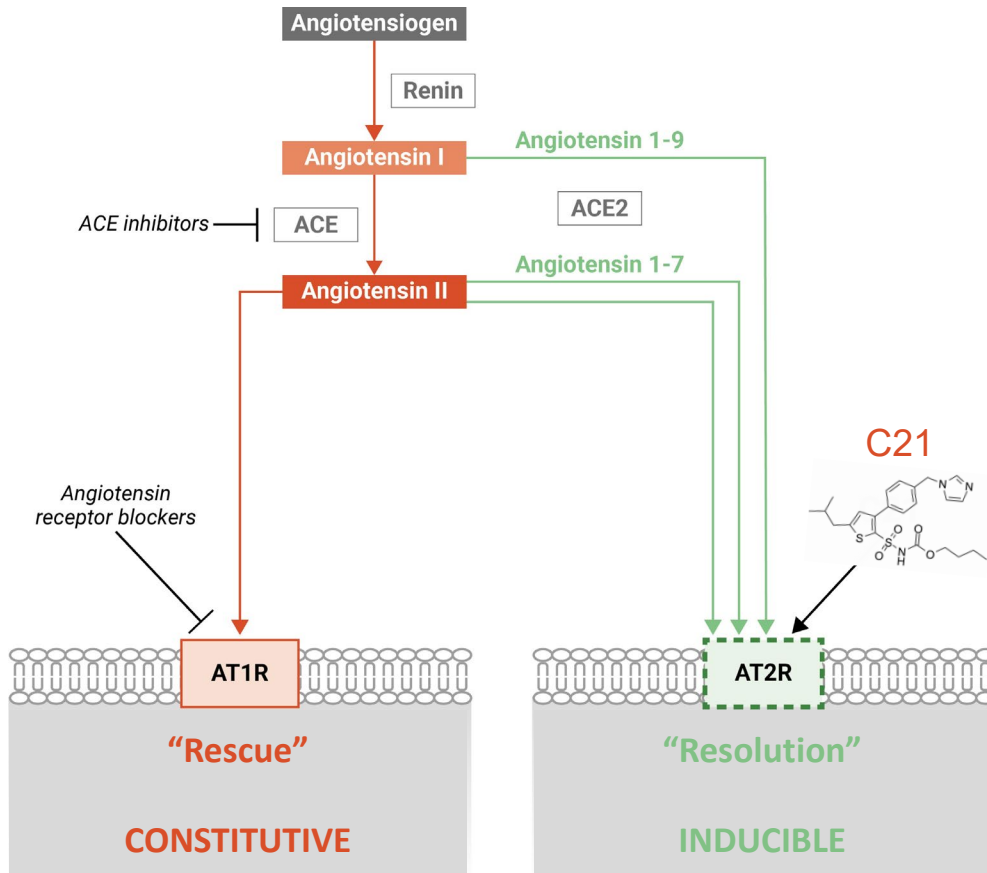
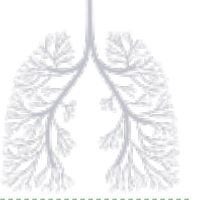
The Renin Angiotensin System (RAS)

- Dating back 400+ million years
- Essential for survival

Function

- Fluid and tissue homeostasis
- Prevent drop in blood pressure
- Regeneration and repair

Angiotensin receptors as drug targets



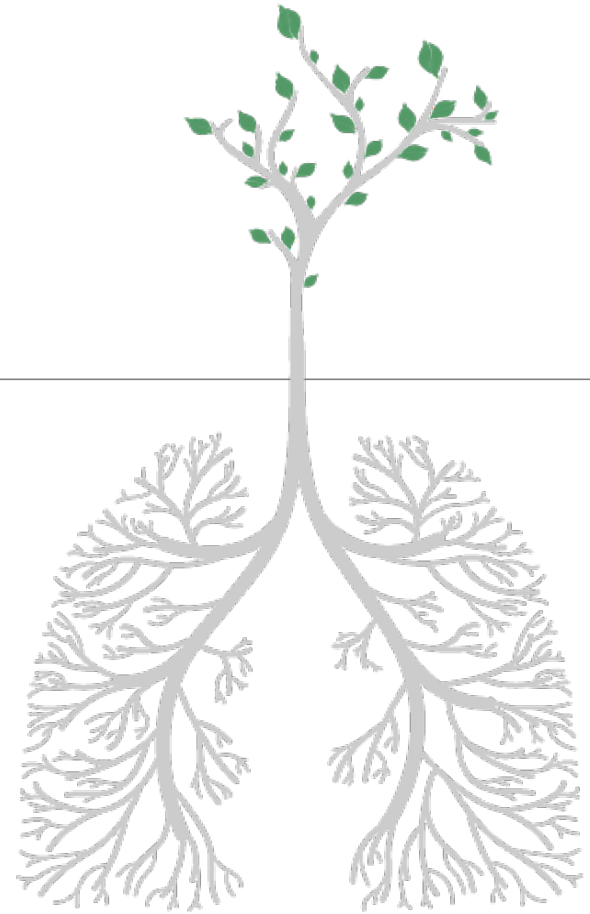
	Function	Drug development
AT1R	Increased blood pressure	Antagonists <i>ACE and ARB's</i>
AT2R	Repair Small vessel vasodilation	Agonists <i>ATRAG's</i>

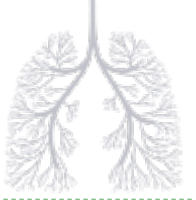
ATRAG's – Precision Pharmacology by Nature

- **Agonists** – Stimulating a repair system in the body
 - Not blocking mediator, receptor or enzyme
- **Upregulated receptor** – only present where needed
 - Not constitutive with non-selective action
- **Hit and run** – short exposure over time
 - Reduced risk for DDI and adverse events

C21 preclinical and clinical data

Vicore AIR interim





Strong preclinical evidence for C21 in IPF and PAH

Consistent results in several in-vivo animal models

C21 treatment highly effective in gold standard models:

- **Bleomycin** – IPF model
- **Monocrotaline** – IPF and PAH model
- **Sugen-Hypoxia** – PAH model

Significant and consistent effects on key parameters:

↓ Lung fibrosis	<ul style="list-style-type: none">• Collagen content (Picro-sirius staining, Hydroxyproline, Collagen gene expression)
↓ Remodeling of pulmonary vessels	<ul style="list-style-type: none">• Ashcroft scoring• α-SMA staining• Vessel wall thickness, luminal opening and vascular lesions
↓ Cardiac remodeling	<ul style="list-style-type: none">• Right ventricular hypertrophy (RVH)
↓ Pulmonary hypertension	<ul style="list-style-type: none">• Right ventricular systolic pressure (RVSP)• Right ventricular end diastolic pressure (RVEDP)• Stroke volume
↑ Cardiac output	<ul style="list-style-type: none">• mL/min

Strong data in human ex-vivo models

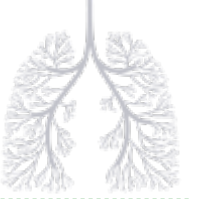
Human precision cut lung slices (PCLuS)

- IPF tissue collected from clinically diagnosed, biopsy confirmed IPF patients undergoing lung transplant.
- **Significant reduction of key fibrosis markers (TGF β 1 and Collagen 1)**

Human primary small airway epithelial cells

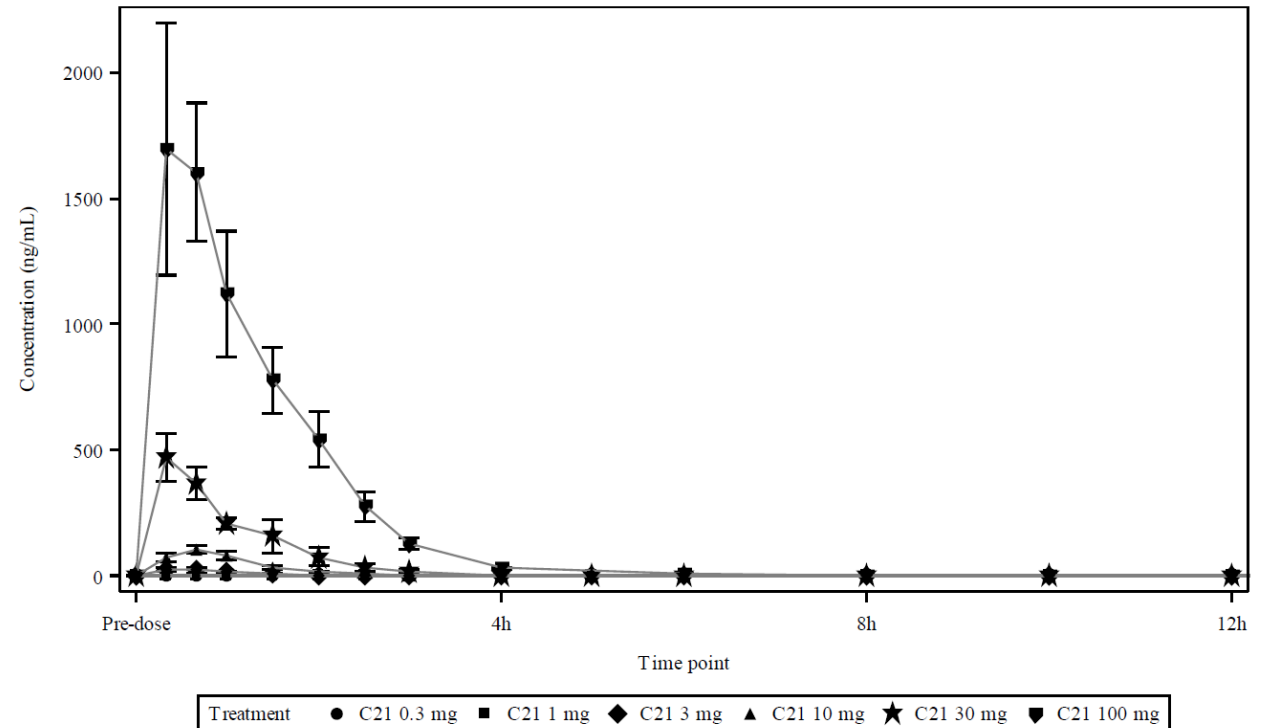
- In vitro co-culture with lung fibroblasts to mimic lung microenvironment
- **Significant reduction of key fibrosis markers (TGF β 1 and Collagen 1) and markers of fibroblast activation.**
- **Results consistent with PCLuS**

C21 – Clinical PK and safety

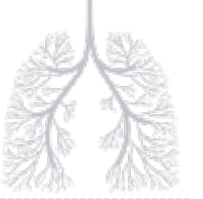


- C21 shows fast absorption, high plasma peak and fast elimination
- Linear pharmacokinetics
- Hit-and-run effect, activating the receptor to initiate a cellular response cascade
- The low exposure over time is beneficial from an induction/DDI and adverse event perspective
- Extensive cardiovascular examination including 24h Holter-ECG with no findings
- 100 mg BID has been safe and well tolerated in three phase 1 studies and in the phase 2 and 3 COVID-19 trials

C21 pharmacokinetic profile: 0.3 - 100 mg



C21 PK profile shows short exposure over time



Attractive profile of C21 in IPF



Strong data in multiple preclinical models



Targeting fibrosis and vasculopathy



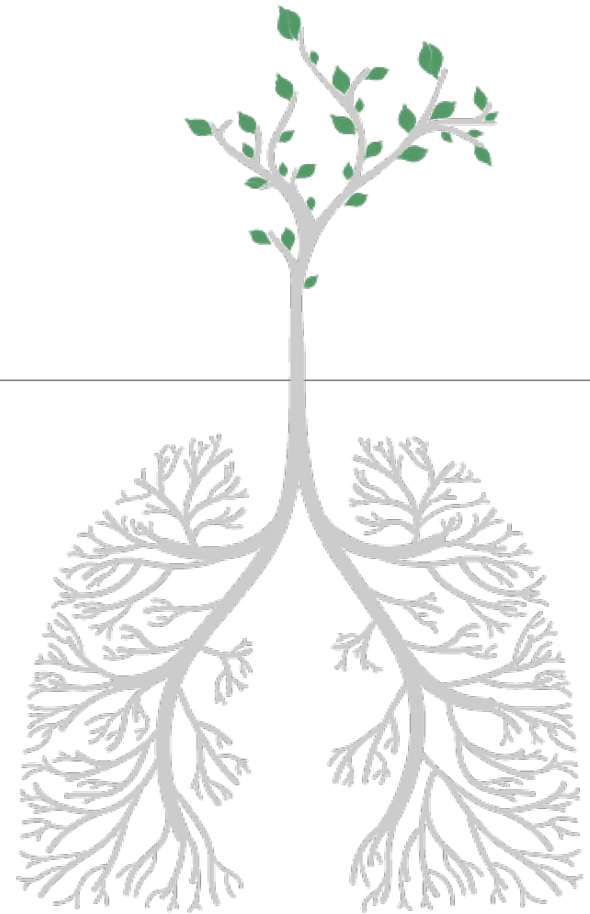
Oral administration



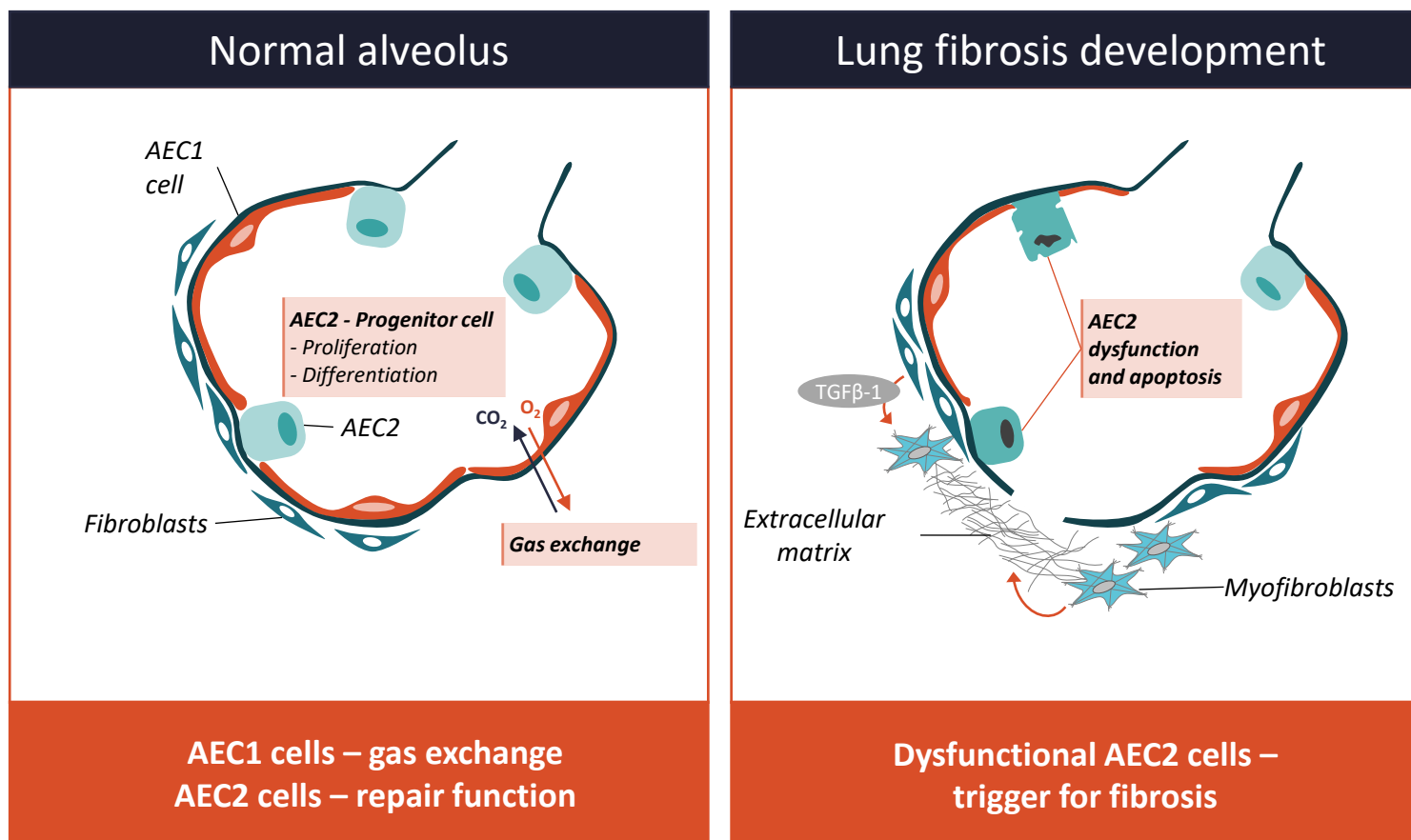
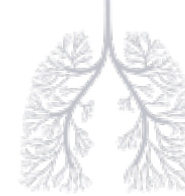
Superior safety

IPF and the AEC2 cell

Vicore AIR interim

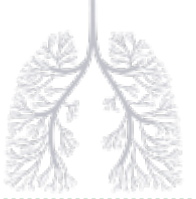


IPF is a disease of insufficient alveolar repair leading to scarring

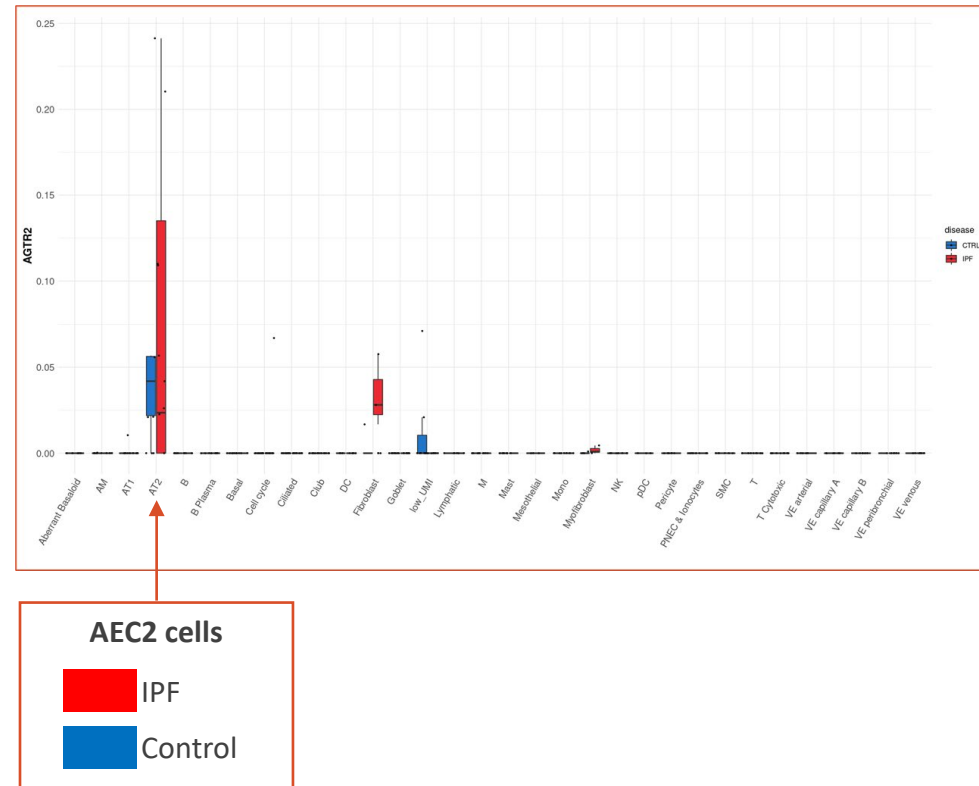


Loss of alveolar integrity is the trigger for IPF

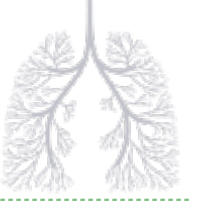
Human AT2R lung expression and relevance in IPF



AT2R highly expressed in AEC2 cells in the lung⁽¹⁾



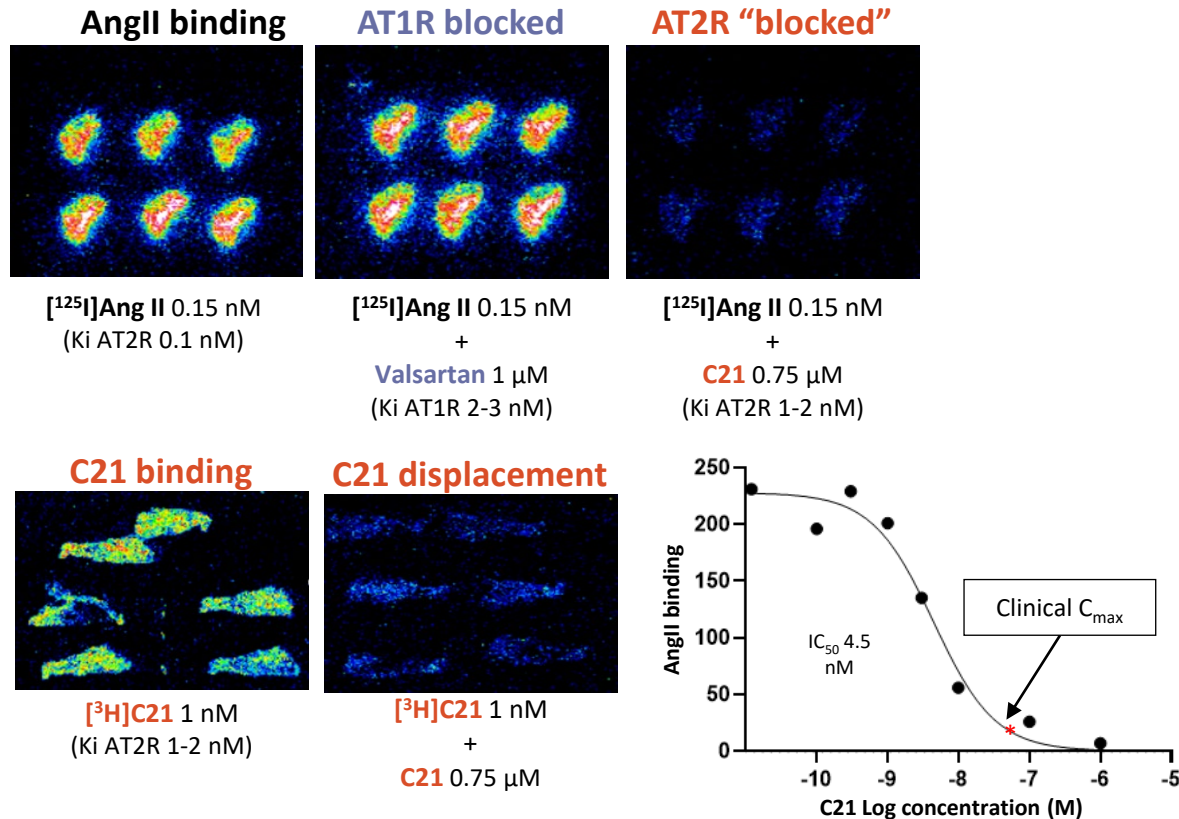
The AT2R expression in the lung supports an alveolar repair function



AT2R in human lung and C21 target engagement

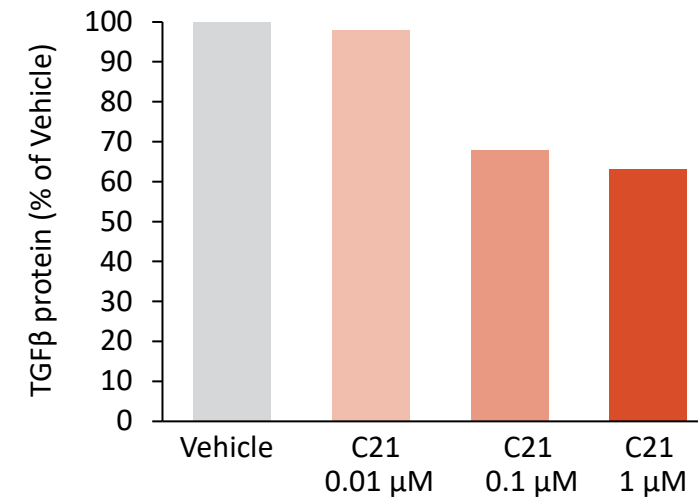
Abundant AT2R expression in human lung and specific C21 receptor binding

Receptor autoradiography performed with human lung tissue slices

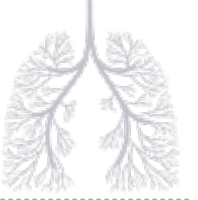


C21 inhibits TGFβ1 in human IPF lung tissue

Precision-cut human lung slices from IPF patient lung transplants

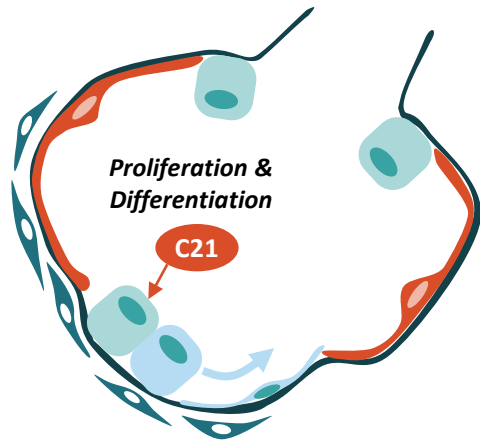


- TGFβ1 is a master regulator of fibrosis formation in IPF disease.
- Downregulation by C21 indicates strong antifibrotic properties



C21 is stimulating the AEC2 cell alveolar repair in IPF

Alveolar repair in IPF



C21 stimulates AEC2 cells and alveolar repair

The AEC2 cell

- The AEC2 cell is a progenitor cell with the role to repair the alveolar integrity and prevent scarring

AT2R

- AT2R is exclusively expressed on this cell type in lung tissue and stimulation restores the alveolar integrity and lung function

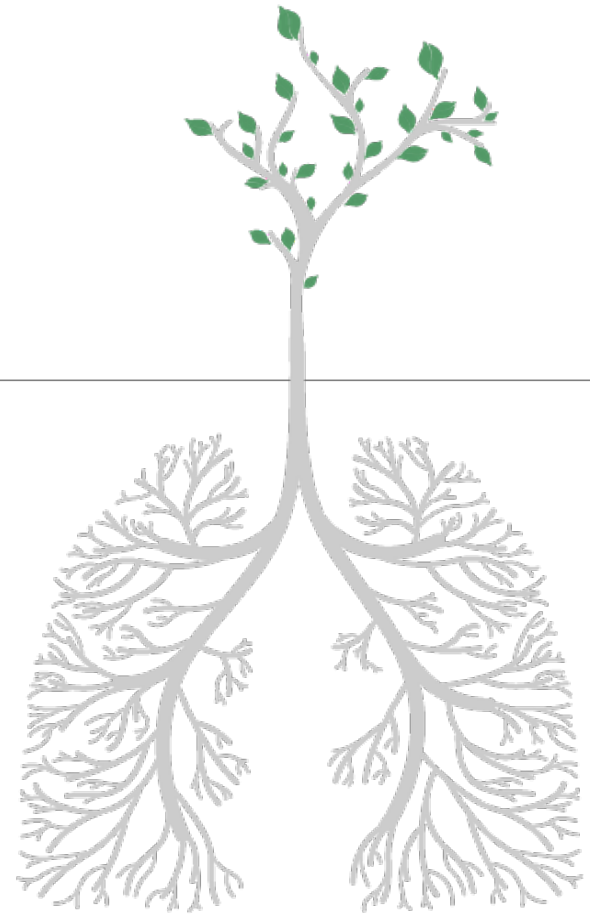
C21

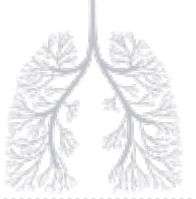
- C21 is a selective AT2R agonist that stimulates alveolar repair

C21 stimulates alveolar progenitor cells to maintain alveolar integrity

Phase 2 data IPF

Vicore AIR interim

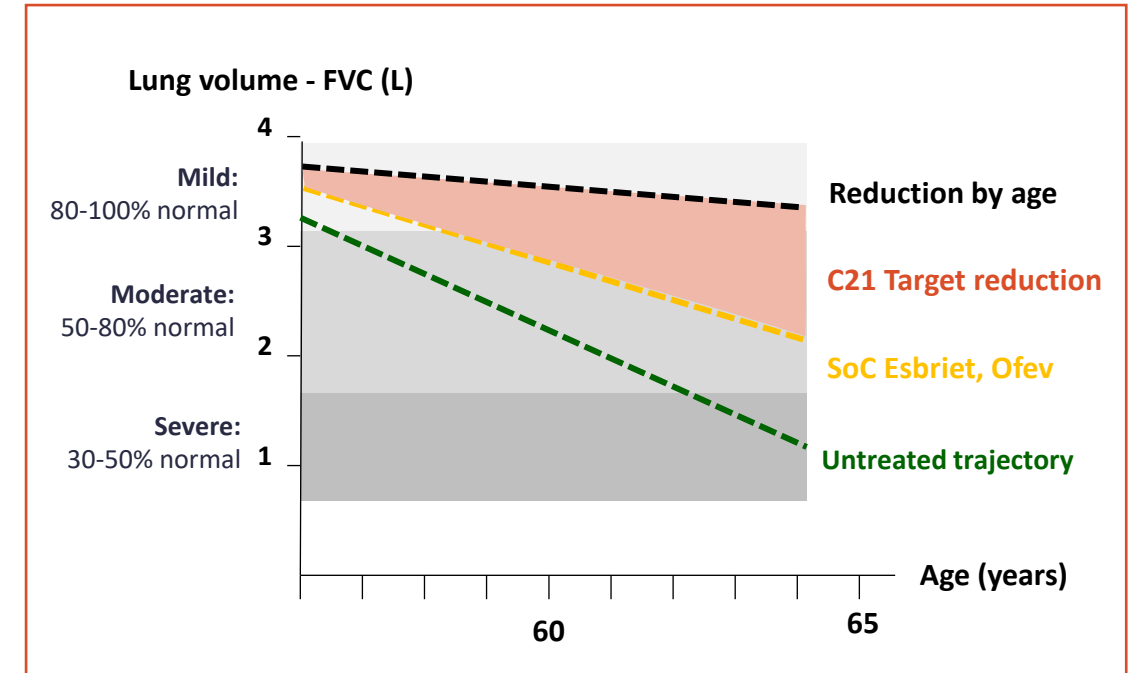




C21 in IPF – Phase 2 AIR trial design

Study Characteristics

- Multicenter, open-label, single-arm trial
- 60 subjects with IPF
 - Central reader of HRCT to secure IPF diagnosis
 - Gold standard FVC measurement
- Primary endpoint - safety
- Primary efficacy endpoint - change in FVC at week 24 from baseline
- Treatment naïve patients, without SoC
- Untreated patients decline 120 ml/24 weeks



Study Design

Screening
4 weeks

C21 100 mg oral capsule BID for 24 weeks

12 weeks treatment
extension

Follow-up
4 weeks

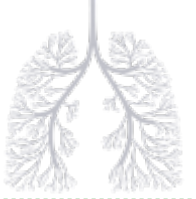
Safety

Efficacy

Efficacy

AIR IPF Phase 2a data – Demography and baseline characteristics

Interim analysis October 2022



Patient characteristics

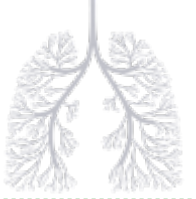
		All enrolled (N=45)
Age (years) - Mean (SD)		67.0 (9.1)
Gender	Males	33 (73.3%)
	Females	12 (26.7%)
Weight (kg) – Mean (SD)		63.4 (12.6)
BMI (kg/m ²) – Mean (SD)		24.2 (3.9)
Smoking status	Former smoker	8 (17.8%)
	Never smoker	37 (82.2%)
Duration of diagnosis (years) – Mean (SD)		0.6 (1.0)
HRCT pattern	Probable UIP	18 (40.0%)
	Typical UIP	24 (53.3%)
	Missing	3 (6.7%)

Baseline pulmonary function tests

	All enrolled (N=45)
FVC (L) - Mean (SD)	2.41 (0.69)
FVC (% predicted) - Mean (SD)	76.8 (16.0)
FEV ₁ /FVC - Mean (SD)	0.80 (0.07)
SpO ₂ - Mean (SD)	95.5 (2.4)

AIR IPF Phase 2a data – Patient disposition

Interim analysis October 2022

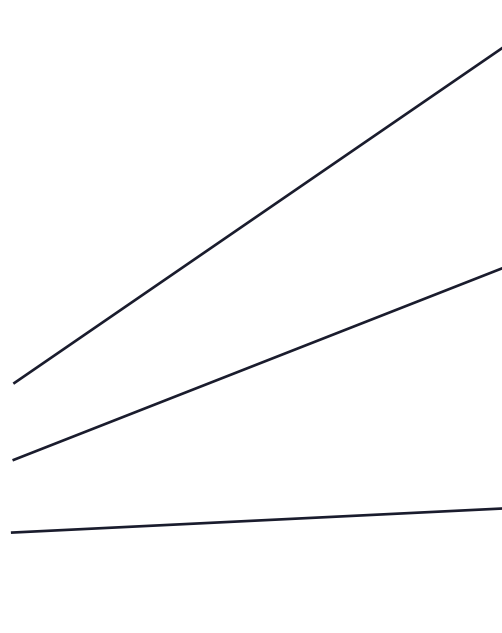


Enrolled (N=45)

- Ongoing: 18
- Discontinued: 18
- Completed: 9

Discontinued (N=18)

- Consent withdrawal: 9
- Adverse event: 6
- Met withdrawal criteria: 3



Consent withdrawal

- COVID-19: 2
- Logistical reasons (e.g., moving away from site): 4
- Other: 3

Adverse event withdrawal

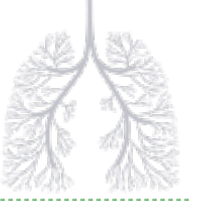
- Abdominal pain: 1
- Death due to COVID-19: 1
- COVID-19, IPF exacerbation: 1
- Mood change: 1
- Hepatic dysfunction: 1
- COVID-19: 1

Met withdrawal criteria

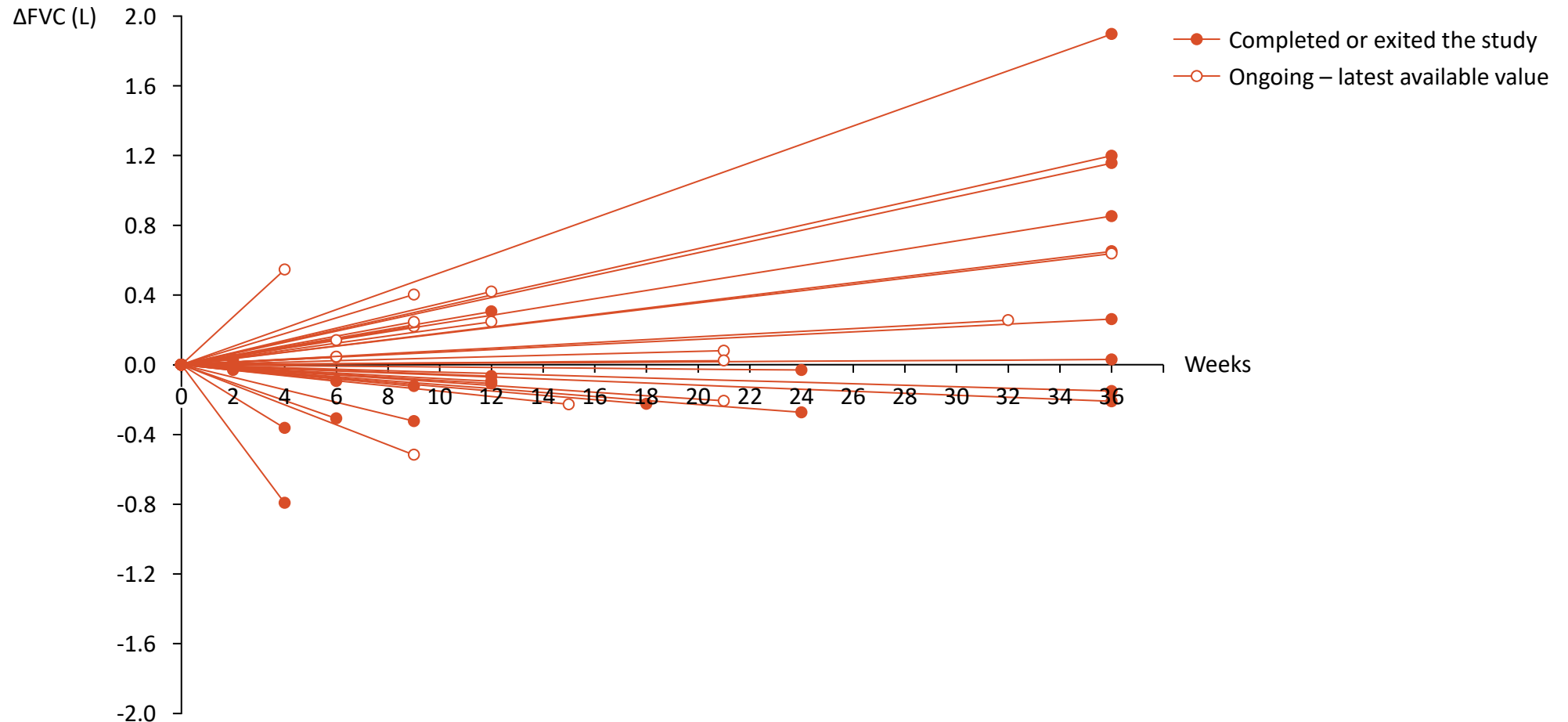
- FVC decline: 2
- Subject not able to perform spirometry due to cough: 1

Individual patient values at time of analysis

Interim analysis October 2022

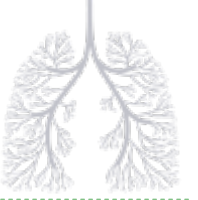


Change in FVC from baseline (L) – individual patient values at time of analysis (completed and ongoing subjects)

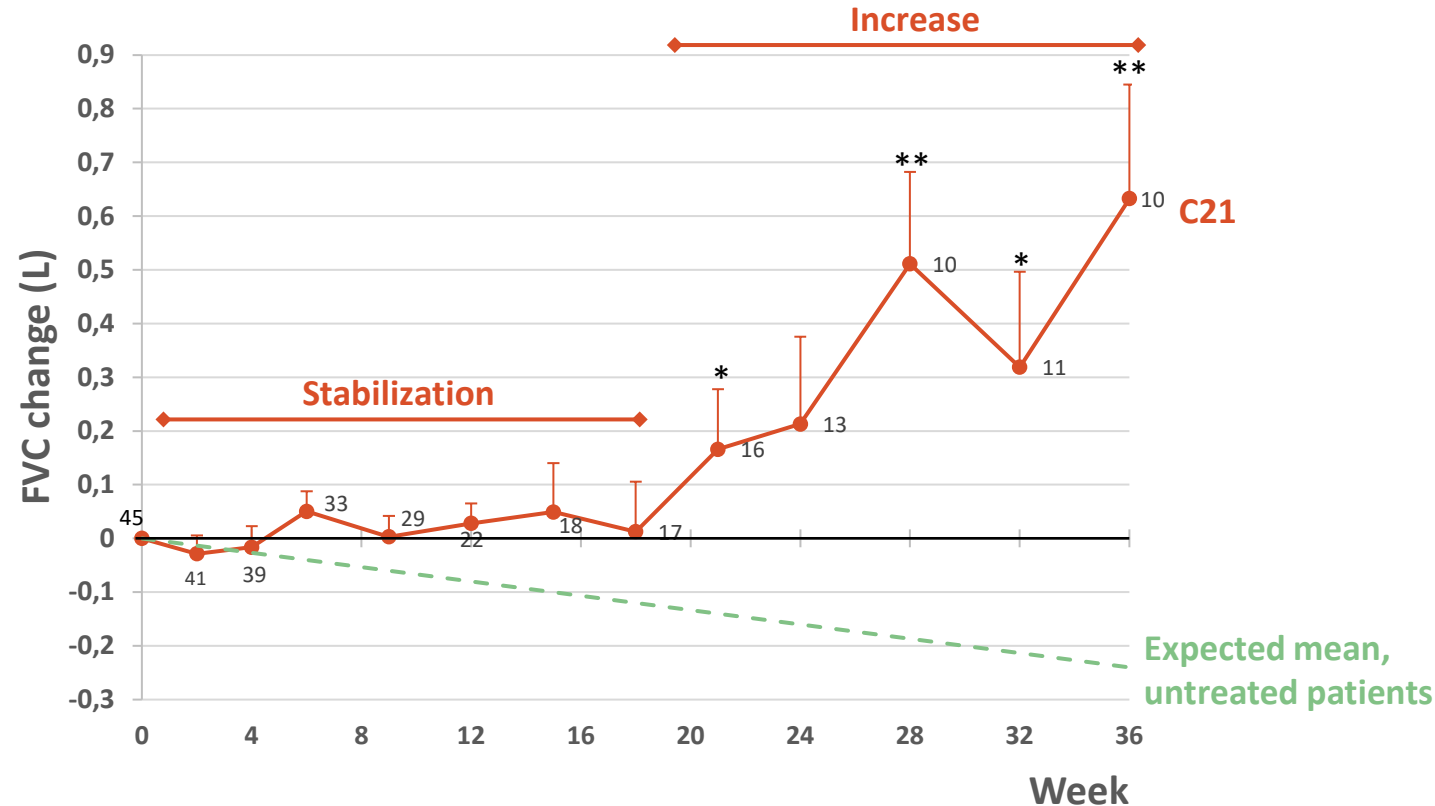


AIR IPF Phase 2a data

Interim analysis October 2022



Mean change (\pm SEM) from baseline in FVC over time, observed values



- Safe and well tolerated – no GI signals
- 213 mL increase in FVC at 24 weeks
- Stabilizes disease at 6 weeks
- Increases lung function as of 18 weeks
- Encouraging patient testimonies

Slope values at 21, 28, 32 and 36 weeks are statistically significant (*p<0.05 and **p<0.01) vs. the expected mean for untreated patients.

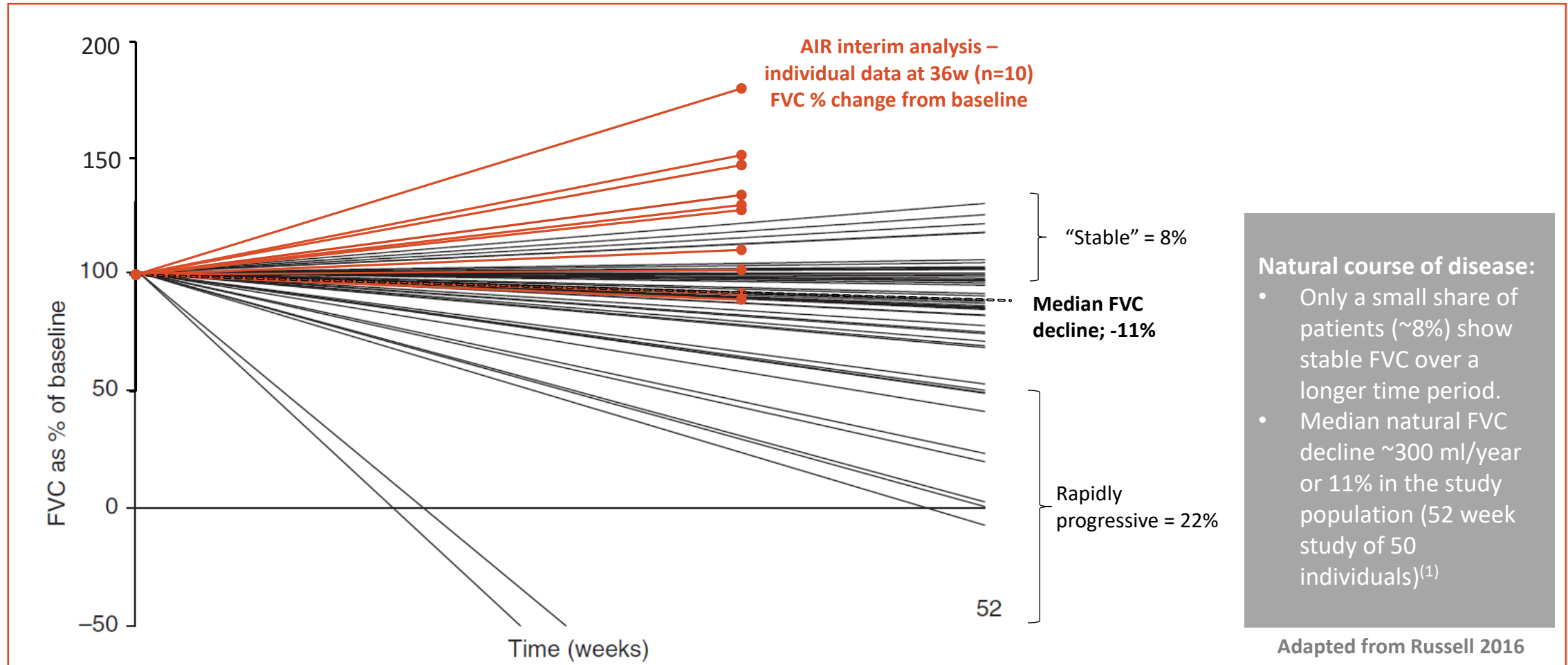
The AIR interim results show early stabilization of FVC with later increase in lung function

AIR IPF Phase 2a data – individual patient data compared to natural course

Interim analysis October 2022



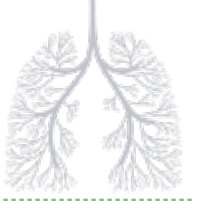
Natural FVC decline in patients with IPF (Linear regression based on observed values) – overlay with AIR data Interim analysis Oct 2022



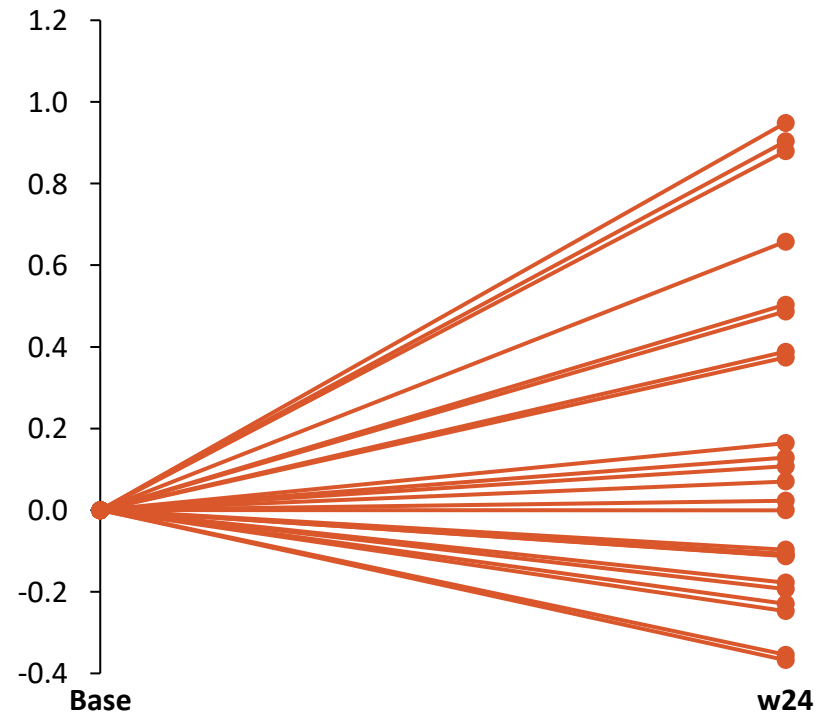
The increase in FVC seen in AIR is markedly different from the natural decline

Analysis based on HRCT pattern

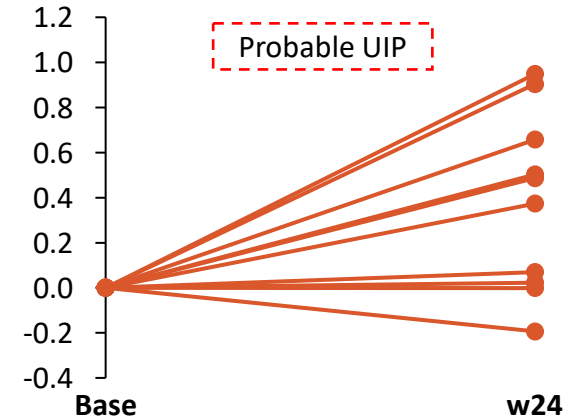
Interim analysis October 2022



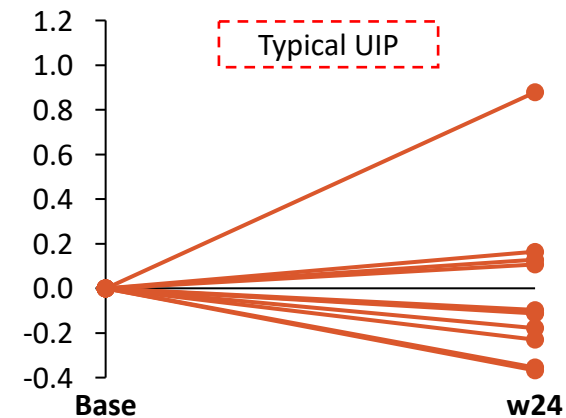
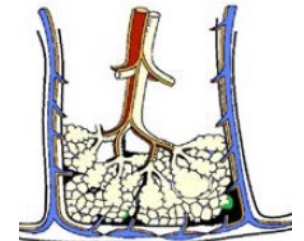
Individual rates of decline in FVC scaled to 24 weeks, linear regression
in patients with 12-week data (n=22)



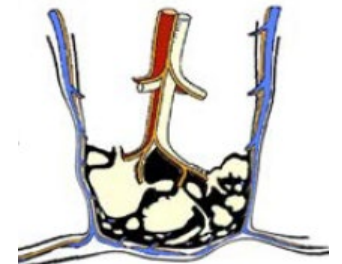
Individual rates of decline in FVC scaled to 24 weeks, linear regression
in subjects with 12-week data, by HRCT pattern



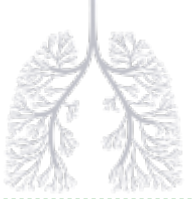
Probable UIP: patchy fibrosis, only
mild architectural destruction



Typical UIP: wider fibrosis, thickened
walls, and honeycomb cysts



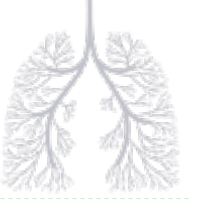
The increase in FVC is more pronounced in patients with probable UIP



Summary of adverse events in AIR interim analysis vs INPULSIS 1

INPULSIS 1; 52-week treatment			AIR interim analysis Oct-22	
	Nintedanib n=309	Placebo n=204	C21 n=45	
	%	%	%	
Any AE	96	89	58	
Common AEs (Non-exhaustive)				
Diarrhea	62	19	2	
Nausea	23	6	4	
Progression of IPF	10	10	2	
Cough	15	13	4	
Vomiting	13	2	2	
COVID-19	n/a	n/a	7	n=3
Alopecia	n/a	n/a	16	n=7
Fatal AE	4	5	2	n=1 (COVID)
Severe AE	26	18	4	n=2 (COVID, IPF exacerbation)
Serious AE	31	27	7	n=3 (COVID, IPF exacerbation, squamous cell carcinoma of the mouth)
AE leading to discontinuation	21	11	20	
Related AE			18	

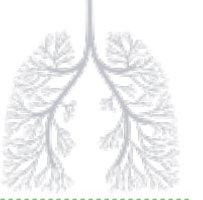
C21 caused no serious adverse events and lacks GI side effect profile



Drop-outs – AIR per October 2022

Subject	Week	Patient withdrawal	Protocol	Comment
1	8	Y	Withdrew consent	Afraid of COVID-19
2	12		SAE, not related	Died of COVID-19
3	6		Met withdrawal criteria	Cough
4	2	Y	Withdrew consent	
5	2	Y	AE, related	Mild abdominal pain
6	24	Y	Withdrew consent	Afraid of COVID
7	10	Y	Withdrew consent	Relocated
8	21	Y	AE, not related	Liver dysfunction
9	4	Y	Withdrew consent	
10	12		AE not related	COVID-19, exacerbation
11	24	Y	AE not related	COVID-19
12	3	Y	Withdrew consent	
13	10	Y	AE not related	Low mood
14	6		Met withdrawal criteria	Bronchitis
15	8	Y	Withdrew consent	Relocated
16	12		Met withdrawal criteria	
17	8	Y	Withdrew consent	Relocated
18	4	Y	Withdrew consent	

Individual patient stories



Patient is extremely happy urged to continue on drug

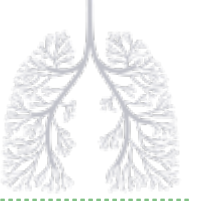
Patient's quality of life improved – requested PI to let him continue on drug after the study

Had extreme dry cough that after treatment subsided

Dry cough subsided after treatment

Patient improved in general health condition

Patient very happy with treatment, can breathe sleeping on stomach




C21 in IPF – IPF Phase 2 Interim data (October 2022) in summary

Stabilizes disease from week 6

Increases lung function from week 18

Safe and well tolerated – no GI side effects

Encouraging patient testimonies

A man with white hair and a beard is shown in profile, looking out over a vast, green field under a warm, golden sunset sky. The sun is low on the horizon, creating a soft, hazy glow. The man is wearing a grey t-shirt. The overall mood is contemplative and hopeful.

**Vicore is well positioned to
develop a new class of drugs for
rare lung diseases and beyond**