UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, DC 20549

FORM 8-K

Current Report Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

Date of Report (Date of earliest event Reported): August 3, 2021

THERAVANCE BIOPHARMA, INC.

(Exact Name of Registrant as Specified in its Charter)

Cayman Islands (State or Other Jurisdiction of Incorporation) 001-36033

(Commission File Number)

98-1226628 (I.R.S. Employer Identification Number)

PO Box 309 Ugland House, South Church Street George Town, Grand Cayman, Cayman Islands KY1-1104 (650) 808-6000

(Addresses, including zip code, and telephone numbers, including area code, of principal executive offices)

Check the appropriate box below if the Form 8-K filing provisions (see General Instruction A.2. below):	g is intended to simultaneously satisfy the filing o	obligation of the registrant under any of the following
Securities registered pursuant to Section 12(b) of the A	act:	
Title of each class	Trading Symbol(s)	Name of each exchange on which registered
Ordinary Share \$0.00001 Par Value	ТВРН	NASDAQ Global Market
Indicate by check mark whether the registrant is an em chapter) or Rule 12b-2 of the Securities Exchange Act		f the Securities Act of 1933 (§ 230.405 of this
		Emerging growth company $\ \Box$
If an emerging growth company, indicate by check marrevised financial accounting standards provided pursua	-	nded transition period for complying with any new or

Item 2.02. Results of Operations and Financial Condition.

On August 3, 2021, Theravance Biopharma, Inc. issued a press release and is holding a conference call regarding its financial results for the quarter ended June 30, 2021 and a business update. A copy of the press release is furnished as Exhibit 99.1 to this Current Report and a copy of materials that will accompany the call is furnished as Exhibit 99.2 to this Current Report. Additionally, a copy of an Appendix of additional materials is furnished as Exhibit 99.3 to this Current Report.

The information in Item 2.02 and in Item 9.01 of this Current Report on Form 8-K, including Exhibits 99.1, 99.2 and 99.3, is being furnished and shall not be deemed "filed" for the purposes of Section 18 of the Securities Exchange Act of 1934, as amended (the "Securities Exchange Act of 1934"), or otherwise subject to the liabilities of that Section, nor shall it be incorporated by reference in any filing under the Securities Act of 1933, as amended, or the Securities Exchange Act of 1934, except as expressly set forth by specific reference in such a filing.

Item 9.01. Financial Statements and Exhibits.

(d) Exhibits.

- 99.1 Press Release dated August 3, 2021
- 99.2 Slide deck entitled Second Quarter 2021 Financial Results and Business Update
- 99.3 Slide deck entitled Appendix August 3, 2021
- 104 Cover Page Interactive Data File (cover page XBRL tags embedded within the Inline XBRL document)

SIGNATURE

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

Date: August 3, 2021

THERAVANCE BIOPHARMA, INC.

By: /s/ Andrew Hindman

Andrew Hindman

Senior Vice President and Chief Financial Officer



Theravance Biopharma, Inc. Reports Second Quarter 2021 Financial Results and Provides Business Update

- Ø Company reiterates Q3 2021 top-line results timing for ampreloxetine Phase 3 and izencitinib Phase 2b in ulcerative colitis
- Ø Company's implied 35% share of YUPELRI® (revefenacin) US net sales¹: \$14.6 million, up 38% from Q2 2020
- Ø TRELEGY® Q2 2021 global net sales hit \$405 million, up 68% from Q2 2020²

DUBLIN, IRELAND – AUGUST 3, 2021 – Theravance Biopharma, Inc. ("Theravance Biopharma" or the "Company") (NASDAQ: TBPH) today reported financial results for the second quarter of 2021.

"We made strong progress in the second quarter. Our field team is energized and has recently been able to increase its face-to-face engagements with customers, driving continued sales volume and market share growth. As we look to the future for YUPELRI, we and our partner Viatris are initiating a controlled clinical study intended to provide data for a possible label update," said Rick E Winningham, Chief Executive Officer. "We continued to execute across our clinical trials and eagerly anticipate study results this quarter and later this year/early next. 2021 is a pivotal year for Theravance Biopharma, and we are looking forward to the second half of the year furthering our mission of medicines that make a difference."

Upcoming Clinical Milestones

- **Q3 2021: Izencitinib** (gut-selective oral pan-Janus kinase (JAK) inhibitor for inflammatory intestinal diseases) Phase 2b in ulcerative colitis (study 0157) top-line results expected in Q3 2021.
- **Q3 2021: Ampreloxetine** (norepinephrine reuptake inhibitor) Phase 3 for symptomatic neurogenic orthostatic hypotension (study 0169) enrollment complete and top-line results expected in Q3 2021.
- **Q4 2021/Q1 2022: Izencitinib** (gut-selective oral pan-JAK inhibitor for inflammatory intestinal diseases) Phase 2 in Crohn's disease (study 0173) top-line results expected in late Q4 2021/early Q1 2022.

Quarterly Highlights

- **YUPELRI**[®] (revefenacin) inhalation solution, the first and only once-daily, nebulized bronchodilator approved in the U.S. for the maintenance treatment of patients with chronic obstructive pulmonary disease (COPD), continued to increase its share of the long-acting nebulized COPD market, increasing to 21% in April 2021, up from 19% in January 2021, and net sales increased by 38% year-over-year (Q2 2020 vs. Q2 2021).
 - o The Company, in collaboration with our partner Viatris, is also initiating a Phase 4 study comparing improvements in lung function in adults with severe to very severe COPD and suboptimal inspiratory flow rate following once-daily treatment with either YUPELRI[®] (revefenacin) delivered via standard jet nebulizer or tiotropium delivered via a dry powder inhaler (Spiriva[®] HandiHaler[®]). This study is aimed at helping to better inform decisions when physicians are designing a personalized COPD treatment plan with patients.

¹ While Viatris Inc. ("Viatris") records the total YUPELRI net sales, the Company is entitled to a 35% share of the profits and losses pursuant to a copromotion agreement with Viatris.

² As reported by Glaxo Group Limited or one of its affiliates (GSK); reported sales converted to USD; economic interest related to TRELEGY (the combination of fluticasone furoate, umeclidinium, and vilanterol (FF/UMEC/VI), jointly developed by GSK and Innoviva, Inc.) entitles the Company to upward tiering payments equal to approximately 5.5% to 8.5% on worldwide net sales of the product (net of Theravance Respiratory Company, LLC (TRC) expenses paid and the amount of cash, if any, expected to be used in TRC over the next four fiscal quarters). 75% of the income from the Company's investment in TRC is pledged to service outstanding notes and 25% of income from the Company's investment in TRC is retained by the Company.



- Ø Nezulcitinib, an investigational, inhaled, lung-selective, pan-JAK inhibitor in development for hospitalized patients with COVID-19, reported Phase 2 top-line results (read more about the data here).
- Ø On June 29, 2021, the Company closed a public offering of ordinary shares at a price to the public of \$15.00 per share, with gross proceeds of \$115.6 million, before deducting underwriting discounts and commissions and offering expenses.

Economic Interest

TRELEGY (first once-daily single inhaler triple therapy for COPD and asthma), in which the Company holds an economic interest, posted second quarter 2021 global net sales of \$405 million (up from \$241 million, 68%, in the second quarter of 2020); Theravance Biopharma is entitled to tiered payments equal to approximately 5.5% to 8.5% of TRELEGY global net sales.³

Second Quarter Financial Results

- **Revenue:** Total revenue for the second quarter of 2021 was \$12.9 million, comprised of non-cash collaboration revenue of \$2.0 million primarily attributed to our global collaboration with Janssen and \$10.9 million in Viatris collaboration revenue. Total revenue for the second quarter represents a \$2.1 million decrease over the same period in 2020.
- **YUPELRI:** The Viatris collaboration revenue of \$10.9 million for the second quarter of 2021 represents amounts receivable from Viatris and is comprised of the Company's 35% share of net sales of YUPELRI as well as its proportionate amount of the total shared costs incurred by the two companies. The non-shared YUPELRI costs incurred by Theravance Biopharma are recorded within operating expenses. While Viatris records the total net sales of YUPELRI within its financial statements, our implied 35% share of net sales of YUPELRI for the second quarter of 2021 was \$14.6 million.
- Research and Development (R&D) Expenses: R&D expenses for the second quarter of 2021 were \$51.1 million, compared to \$62.4 million in the same period in 2020. Second quarter R&D expenses included total non-cash share-based compensation of \$7.3 million.
- **Selling, General and Administrative (SG&A) Expenses:** SG&A expenses for the second quarter of 2021 were \$25.9 million, compared to \$24.8 million in the same period in 2020. Second quarter SG&A expenses included total non-cash share-based compensation of \$7.6 million.
- Operating Loss: Operating loss for the second quarter of 2021 was \$64.1 million compared to \$72.2 million in the same period of 2020.

³ As reported by Glaxo Group Limited or one of its affiliates (GSK); reported sales converted to USD; economic interest related to TRELEGY (the combination of fluticasone furoate, umeclidinium, and vilanterol (FF/UMEC/VI), jointly developed by GSK and Innoviva, Inc.) entitles the Company to upward tiering payments equal to approximately 5.5% to 8.5% on worldwide net sales of the product (net of Theravance Respiratory Company, LLC (TRC) expenses paid and the amount of cash, if any, expected to be used in TRC over the next four fiscal quarters). 75% of the income from the Company's investment in TRC is pledged to service outstanding notes and 25% of income from the Company's investment in TRC is retained by the Company.



• Cash Position: Cash, cash equivalents and marketable securities totaled \$265.0 million as of June 30, 2021.

2021 Financial Guidance

• **Operating Expenses** (excluding share-based compensation): The Company reiterates that it expects full year 2021 R&D expense of \$195 million to \$225 million, and SG&A expense of \$80 million to \$90 million.

Conference Call and Live Webcast Today at 5 pm ET

Theravance Biopharma will hold a conference call and live webcast accompanied by slides today at 5 pm ET / 2 pm PT / 10 pm IST. To participate, please dial (855) 296-9648 from the U.S. or (920) 663-6266 for international callers, using the confirmation code 2615108. Those interested in listening to the conference call live via the internet may do so by visiting www.theravance.com, under the Investors section, Presentations and Events.

A replay will be available on www.theravance.com for 30 days through September 2, 2021. An audio replay will also be available through 8:00 p.m. ET on August 10, 2021, by dialing (855) 859-2056 from the U.S., or (404) 537-2406 for international callers, and then entering confirmation code 2615108.

About Theravance Biopharma

Theravance Biopharma, Inc. is a diversified biopharmaceutical company primarily focused on the discovery, development and commercialization of organselective medicines. Its purpose is to pioneer a new generation of small molecule drugs designed to better meet patient needs. Its research is focused in the areas of inflammation and immunology.

In pursuit of its purpose, Theravance Biopharma applies insights and innovation at each stage of its business and utilizes its internal capabilities and those of partners around the world. The Company applies organ-selective expertise to target disease biologically, to discover and develop medicines that may expand the therapeutic index with the goal of maximizing efficacy and limiting systemic side effects. These efforts leverage years of experience in developing lung-selective medicines to treat respiratory disease, including FDA-approved YUPELRI® (revefenacin) inhalation solution indicated for the maintenance treatment of patients with chronic obstructive pulmonary disease (COPD). Its pipeline of internally discovered programs is targeted to address significant patient needs.

Theravance Biopharma has an economic interest in potential future payments from Glaxo Group Limited or one of its affiliates (GSK) pursuant to its agreements with Innoviva, Inc. relating to certain programs, including TRELEGY.

For more information, please visit www.theravance.com.

THERAVANCE BIOPHARMA®, THERAVANCE®, and the Cross/Star logo are registered trademarks of the Theravance Biopharma group of companies (in the U.S. and certain other countries).

 $YUPELRI^{\textcircled{R}}$ is a registered trademark of Mylan Specialty L.P., a Viatris Company. Trademarks, trade names or service marks of other companies appearing on this press release are the property of their respective owners.



Forward-Looking Statements

This press release contains and the conference call will contain certain "forward-looking" statements as that term is defined in the Private Securities Litigation Reform Act of 1995 regarding, among other things, statements relating to goals, plans, objectives, expectations and future events. Theravance Biopharma intends such forward-looking statements to be covered by the safe harbor provisions for forward-looking statements contained in Section 21E of the Securities Exchange Act of 1934 and the Private Securities Litigation Reform Act of 1995. Examples of such statements include statements relating to: the Company's goals, designs, strategies, plans and objectives, the Company's regulatory strategies and timing of clinical studies (including the data therefrom), the potential characteristics, benefits and mechanisms of action of the Company's product and product candidates, the potential that the Company's research programs will progress product candidates into the clinic, the Company's expectations for product candidates through development, the Company's expectations regarding its allocation of resources, potential regulatory approval and commercialization (including their differentiation from other products or potential products), product sales or profit share revenue and the Company's expectations for its expenses, excluding share-based compensation and other financial results. These statements are based on the current estimates and assumptions of the management of Theravance Biopharma as of the date of the press release and the conference call and are subject to risks, uncertainties, changes in circumstances, assumptions and other factors that may cause the actual results of Theravance Biopharma to be materially different from those reflected in the forward-looking statements. Important factors that could cause actual results to differ materially from those indicated by such forward-looking statements include, among others, risks related to: disagreements with Innoviva, Inc. and TRC LLC, the uncertainty of arbitration and litigation and the possibility that the results of these proceedings could be adverse to the Company, additional future analysis of the data resulting from our clinical trial(s), delays or difficulties in commencing, enrolling or completing clinical studies, the potential that results from clinical or non-clinical studies indicate the Company's compounds or product candidates are unsafe, ineffective or not differentiated, risks that product candidates do not obtain approval from regulatory authorities, the feasibility of undertaking future clinical trials for our product candidates based on policies and feedback from regulatory authorities, dependence on third parties to conduct clinical studies, delays or failure to achieve and maintain regulatory approvals for product candidates, risks of collaborating with or relying on third parties to discover, develop, manufacture and commercialize products, and risks associated with establishing and maintaining sales, marketing and distribution capabilities with appropriate technical expertise and supporting infrastructure. In addition, while we expect the effects of COVID-19 to continue to adversely impact our business operations and financial results, the extent of the impact on our ability to generate revenue from YUPELRI® (revefenacin), our clinical development programs (including but not limited to our later stage clinical programs for izencitinib and ampreloxetine), and the value of and market for our ordinary shares, will depend on future developments that are highly uncertain and cannot be predicted with confidence at this time. These potential future developments include, but are not limited to, the ultimate duration of the COVID-19 pandemic, travel restrictions, quarantines, social distancing and business closure requirements in the United States and in other countries, other measures taken by us and those we work with to help protect individuals from contracting COVID-19, and the effectiveness of actions taken globally to contain and treat the disease, including vaccine availability, distribution, acceptance and effectiveness. Other risks affecting Theravance Biopharma are in the Company's Form 10-Q filed with the SEC on May 6, 2021 and other periodic reports filed with the SEC. In addition to the risks described above and in Theravance Biopharma's filings with the SEC, other unknown or unpredictable factors also could affect Theravance Biopharma's results. No forward-looking statements can be guaranteed, and actual results may differ materially from such statements. Given these uncertainties, you should not place undue reliance on these forward-looking statements. Theravance Biopharma assumes no obligation to update its forward-looking statements on account of new information, future events or otherwise, except as required by law.

Contact: Gail B. Cohen Corporate Communications 917-214-6603



THERAVANCE BIOPHARMA, INC. CONDENSED CONSOLIDATED BALANCE SHEETS (In thousands)

	June 30, 2021 (Unaudited)			December 31, 2020 (1)		
Assets		(2 222 222)				
Current assets:						
Cash and cash equivalents and short-term marketable securities	\$	264,953	\$	292,941		
Receivables from collaborative arrangements		12,220		15,868		
Amounts due from TRC, LLC		27,741		53,799		
Prepaid clinical and development services		15,913		20,374		
Other prepaid and current assets		12,353		10,359		
Total current assets		333,180		393,341		
Property and equipment, net		16,583		16,422		
Operating lease assets		41,508		43,260		
Equity in net assets of TRC, LLC		35,822		12,750		
Restricted cash		833		833		
Other assets		1,325		2,451		
Total assets	\$	429,251	\$	469,057		
Liabilities and Shareholders' Deficit	ф	CE 10E	ф	100 551		
Current liabilities	\$	67,127	\$	123,571		
Convertible senior notes due 2023, net		227,499		226,963		
Non-recourse notes due 2035, net		375,069		372,873		
Long-term operating lease liabilities		57,768		47,220		
Other long-term liabilities		2,162		2,181		
Shareholders' deficit		(300,374)		(303,751)		
Total liabilities and shareholders' deficit	\$	429,251	\$	469,057		

⁽¹⁾ The condensed consolidated balance sheet as of December 31, 2020 has been derived from the audited consolidated financial statements included in the Company's Annual Report on Form 10-K for the year ended December 31, 2020.

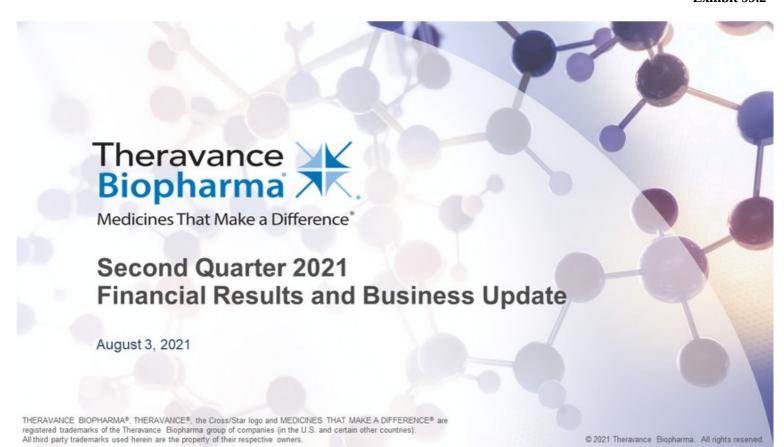


THERAVANCE BIOPHARMA, INC. CONDENSED CONSOLIDATED STATEMENTS OF OPERATIONS (In thousands, except per share data)

	Three Months Ended June 30,			Six Months Ended June 30,				
		2021 2020			2021		2020	
		(Unau	dited)			(Unau	dited)
Revenue:								
Collaboration revenue	\$	1,980	\$	5,488	\$	5,852	\$	12,120
Licensing revenue		-		-		-		1,500
Viatris collaboration agreement		10,934		9,520		21,319		21,250
Total revenue		12,914		15,008		27,171		34,870
Costs and expenses:								
Research and development (1)		51,093		62,404		118,692		128,417
Selling, general and administrative (1)		25,931		24,780		56,481		51,105
Total costs and expenses		77,024		87,184		175,173		179,522
Loss from operations		(64,110)		(72,176)		(148,002)		(144,652)
Income from investment in TRC, LLC		21,926		21,381		38,473		34,896
Interest expense		(11,612)		(11,391)		(23,485)		(21,332)
Loss on extinguishment of debt		-		-		-		(15,464)
Interest and other income (expense), net		1,171		(662)		937		798
Loss before income taxes		(52,625)		(62,848)		(132,077)		(145,754)
Provision for income tax benefit (expense)		220		(39)		(7)		(186)
Net loss	\$	(52,405)	\$	(62,887)	\$	(132,084)	\$	(145,940)
Net loss per share:								
Basic and diluted net loss per share	\$	(0.80)	\$	(1.00)	\$	(2.03)	\$	(2.39)
Shares used to compute basic and diluted net loss per share	<u> </u>	65,669		62,861	_	65,085		61,162

⁽¹⁾ Amounts include share-based compensation expense as follows:

Three Months Ended Ju				ed June 30,	Six Months E	nded	ded June 30,	
(In thousands)		2021		2020	2021		2020	
Research and development	\$	7,315	\$	8,098	\$ 15,236	\$	15,963	
Selling, general and administrative		7,626		8,487	15,537		15,898	
Total share-based compensation expense	\$	14,941	\$	16,585	\$ 30,773	\$	31,861	



Forward-looking statements

Under the safe harbor provisions of the U.S. Private Securities Litigation Reform Act of 1995, the company cautions investors that any forward-looking statements or projections made by the company are subject to risks and uncertainties that may cause actual results to differ materially from the forward-looking statements or projections.

Examples of forward-looking statements in this presentation may include the Company's goals, designs, strategies, plans and objectives, the Company's regulatory strategies and timing of clinical studies (including the data therefrom), the potential characteristics, benefits and mechanisms of action of the Company's product and product candidates, the potential that the Company's research programs will progress product candidates into the clinic, the Company's expectations for product candidates through development, the Company's expectations regarding its allocation of resources, potential regulatory approval and commercialization (including their differentiation from other products or potential products), product sales or profit share revenue and the Company's expectations for its expenses, excluding share-based compensation and other financial results.

The company's forward-looking statements are based on the estimates and assumptions of management as of the date of this presentation and are subject to risks and uncertainties that may cause the actual results to be materially different than those projected, such as risks related to the impacts on the COVID-19 global pandemic on our business, delays or difficulties in commencing, enrolling or completing clinical studies, the potential that results from clinical or non-clinical studies indicate the Company's compounds or product candidates are unsafe, ineffective or not differentiated, risks that product candidates do not obtain approval from regulatory authorities, the feasibility of undertaking future clinical trials for our product candidates based on policies and feedback from regulatory authorities, dependence on third parties to conduct clinical studies, delays or failure to achieve and maintain regulatory approvals for product candidates, risks of collaborating with or relying on third parties to discover, develop, manufacture and commercialize products, and risks associated with establishing and maintaining sales, marketing and distribution capabilities with appropriate technical expertise and supporting infrastructure, disagreements with Innoviva, Inc. and TRC LLC, the uncertainty of arbitration and litigation and the possibility that an arbitration award or litigation result could be adverse to the Company.

Other risks affecting Theravance Biopharma are in the company's Form 10-Q filed with the SEC on May 6, 2021, and other periodic reports filed with the SEC.



Agenda

Introduction	Gail B. Cohen Vice President, Corporate Communications	
Overview	Rick E Winningham	
Overview	Chief Executive Officer	
	Richard A. Graham	
Developmentand	Senior Vice President, Development	
Commercial Update	Frank Pasqualone	
	Senior Vice President, Chief Business Officer	
Figure sightly date	Andrew A. Hindman	
Financial Update	Senior Vice President, Chief Financial Officer	
Olasina Parasuka	Rick E Winningham	
Closing Remarks	Chief Executive Officer	



Theravance Biopharma difference: Targeting disease with organ selective medicines

Pathway



Disease



Optimize effect in the organ where the disease is active

Therapeutic Index

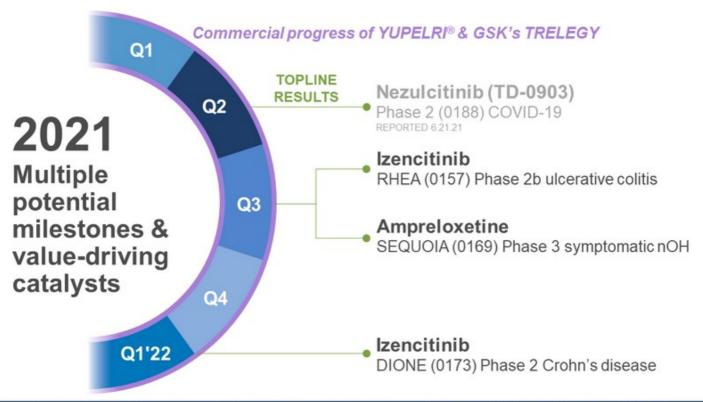


Expand TI with the goal of maximizing efficacy and limiting systemic side effects

Pioneering a new generation of small molecule drugs designed to better meet patient needs



TI, therapeutic index

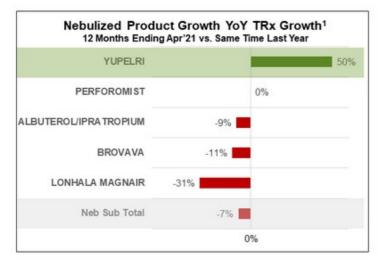




BPH holds 85% economic interest in upward-liering royalty stream of 6.5% – 10% payable by GSK (net of TRC expenses paid and the amount of cash, if any, expected to be used by TRC pursuant to the TRC greenent over the next four fiscal quarters). 75% of TRC income received is pledged to service outstanding notes, 25% of royalities retained by TBPH. Our non-recourse Triple II 9.5% Fixed Rate Term Notes are due no refere 2005. All statements concerning TRELEGY is assed on publicly available information. TRELEGY is FFAIMECVYI or fluticasone furoatel/umeclidinium/vilanterot; comprised of inhaled corticosteroid, long-acting usecarinic receptor antagonist, and long-acting 82 agonists, active components of Anoro (UMECVVI). nOH, neurogenic orthostatic hypotension.

Respiratory market trends across nebulized and handheld

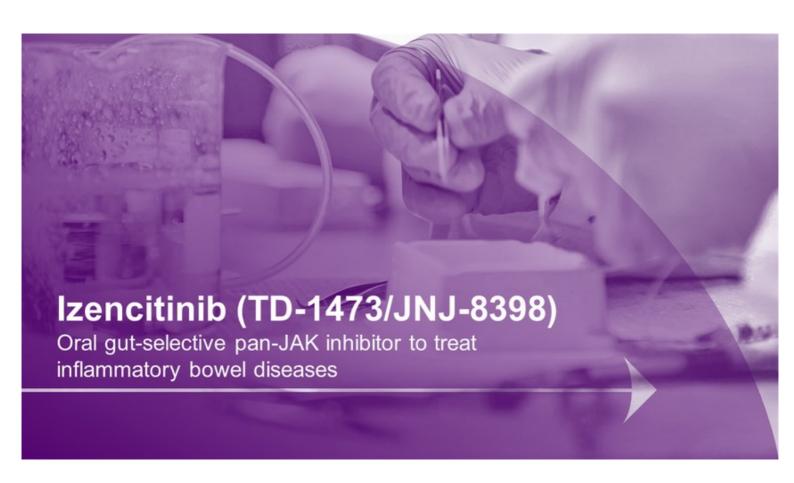
YUPELRI and TRELEGY with strong YoY growth while respective markets declined or remained flat



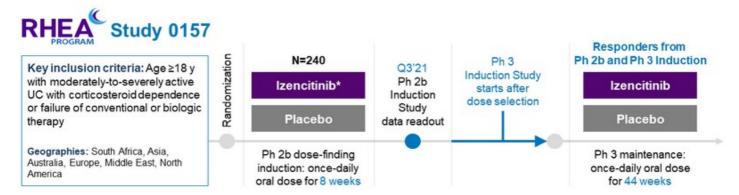




IQVIA XPO Excl. LTC (Retail) and SolutionsRx (DME / Med B FFS) through 4/30/202:
 COPD Handheld Market Excludes BREZTRI (newlylaunched product)



Izencitinib: Phase 2b Induction study in ulcerative colitis



Endpoints

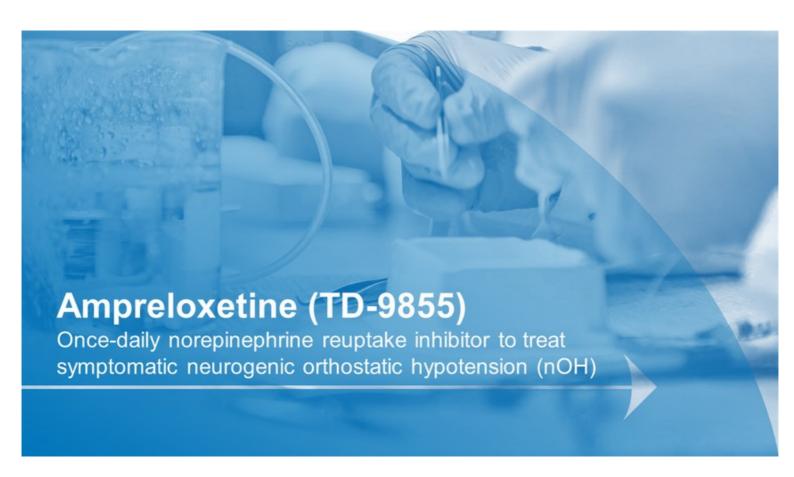
- Primary:
 - Change from baseline in tMS at Week 8
- Secondary:
 - Clinical response and remission by aMS components
 - Standard disease surrogate biomarkers
 - Safety



"3 izenctinib doses. NCT03758443 aMS, adapted Mayo Score; tMS, total Mayo Score; UC, ulcerative coltis **Program Status**

Ph 3 Maintenance ongoing

Q



Ampreloxetine: Phase 3 Randomized, double-blind, placebo-controlled study



Ampreloxetine Key inclusion criteria: Age >30 y with N=188 Q3'21 symptomatic nOH with OHSA #1 score ≥4 Placebo Randomization Efficacy Data Geographies: North America, Australia/New Zealand, Europe, Russia, UK Once-daily 10 mg oral dose: 4 weeks

Objectives

- Primary: Change from baseline in OHSA#1 score at Week 4*
- Secondary:
 - Change from baseline in OHSA composite score over 4 wk
 - Change from baseline in OHDAS composite score over 4 wk
 - PGI-Cat Week 4
 - Incidence of falls
 - Safety

Program Status

- Phase 3 registrational program ongoing
- All participants who complete Study 0169 are eligible for Study 0170

Theravance K Biopharma

Studies 0169, 0170 and safety data from 0171 will be included the first of the improvement in symptoms, improvement of 1 point is defined as the MCID (minimal clinically important difference).

m assessment; PGI-C, patient global impression of change. NCT0375055



YUPELRI® (revefenacin) inhalation solution

FDA-approved for the maintenance treatment of COPD First and only once-daily, nebulized maintenance medicine for COPD



Once-daily LAMAs are first-line therapy for moderate-to-very severe COPD¹

9% of COPD patients (\sim 800,000) use nebulizers for ongoing maintenance therapy; 41% use nebulizers at least occasionally for bronchodilator therapy²

TBPH and VTRS worldwide strategic collaboration to develop and commercialize nebulized YUPELRI® (revefenacin)









Global Strategy for Diagnosis, Management, and Prevention of COPD, 2018.
 TBPH market research (il- = 160 physicians), refers to US COPD patients.
 COPD, chronic obstructive pulmonary disease; LAMA, long-acting muscarinic antagonis

TBPH implied 35% of YUPELRI® US net sales by quarter



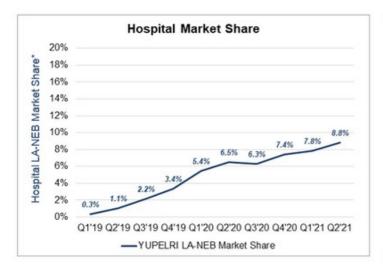
TBPH implied 35% of YUPELRI US net sales represents TBPH's portion of the combined TBPH and VIATRIS net revenue

Theravance ***
Biopharma ***

See TBPH 10K filed February 26, 2021 for greater detail re TBPH implied 35%

YUPELRI® hospital sales and community TRx trends

Continued market share growth across both the hospital and retail channels





Most patients who receive YUPELRI® in the hospital are discharged with an Rx1

TRx volume represents retail only which is typically 33% of Retail + DME

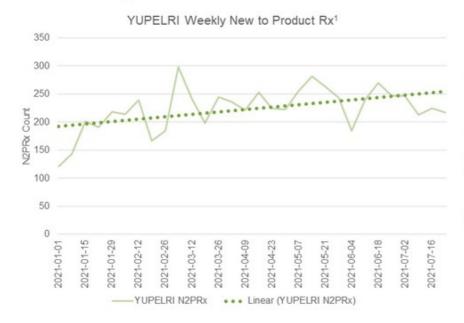
"Community LA-NEB Market Share includes Retail + DME / Med B FFS through April '21

LA-NEB Market: YUPELRI, BROVANA, LONHALA, PERFOROMIST



isRx (DME / Med B FFS) through 4/50/2021 (Q2/21 Community LA-NEB Market Share Incomplete)

Positive growth trends for YUPELRI® continuing into 2H2021



YUPELRI

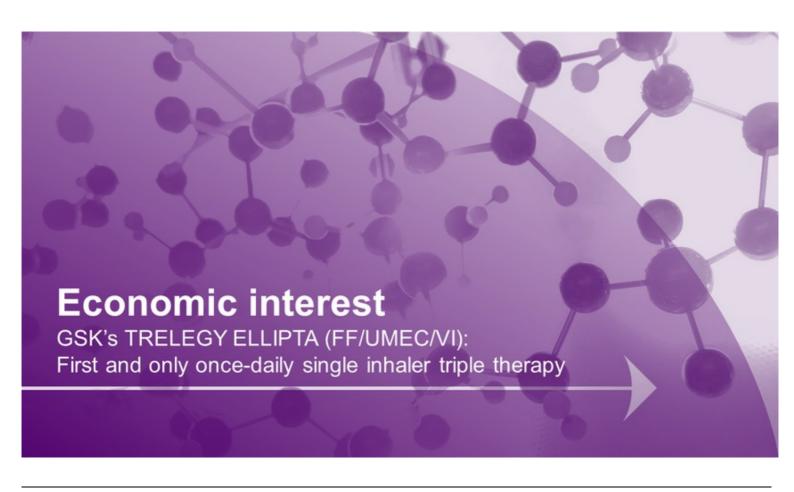
- 815 hospital accounts have ordered²
 - 69% have ordered more than once
- 91% formulary win rate³
- Highest number of formulary support presentations in Q2'21 since launch
- 75% commercial coverage⁴

Biopharma A.

MedionisThic Make a Difference

Symphony Health, Metys, 01/01/2021 – 07/23/2021, Weekly New to Product (N2P) Rx Volume
 1,00/14,000 Jaunch through March 2021.

TBPH Commercial Data Warehouse.
 Decision Resources Group (DRG) as of May 202.



Economic interest in GSK's TRELEGY

Upward-tiering royalties of ~5.5-8.5% of global net sales1



TRELEGY

- Q2 global net sales of \$405M
- Year-over-year sales growth of 68% from the same period in 2020
- 1H'21 sales were up 49% to \$746M driven by growth in all regions
 - US sales grew 51% to \$522M
 - Europe sales grew 21% to \$130M
 - Internationally, where TRELEGY asthma was approved in Japan in Q4'20, sales grew more than 100% to \$94M

Launched in US in November 2017

Source: GSK, Symphony Health Metys monthly TRx data for the time period Sept 13 to Jun 21.



1. TBPH holds 85% economic interest in upward-liering royalty stream of 6.5% – 10% payable by GSK (net of TRC expenses paid and the amount of cash, if any, expected to be used by TRC pursuant to the TRC Agreement over the next four fiscal quarters) 75% of TRC income received is pleaged to service outstanding notes, 25% of royalties retained by TBPH. Our non-recourse Triple 19.5% Fixed Rate Term Notes are due on or before 2005. All statements concerning TRELECY is based on publicly available information. TRELEGY is FF/UMEC/VI or fluticasone furoate/umec/idnium/vilanterot, comprised of inhaled corticosteroid, long-acting muscarinic receptor antagonist, and long-acting \$2 agonists, active components of Anoro (UMEC/VI).

Second quarter 2021 financial highlights \$265.0 million cash¹ as of June 30, 2021

	Three Month	June 30,	Six Months Ended June 30,					
(\$, in thousands)	2021		2020	- 2	2021		2020	
	(Unaudited)				(Unaudited)			
Revenue:								
Collaboration revenue	\$ 1,980	\$	5,488	\$	5,852	\$	12,120	
Licensing revenue	_		_		-		1,500	
Viatris collaboration agreement	10,934		9,520		21,319		21,250	
Total revenue	12,914		15,008		27,171		34,870	
Costs and expenses:								
Research and development ²	51,093		62,404		118,692		128,417	
Selling, general and administrative ²	25,931		24,780		56,481		51,105	
Total costs and expenses	77,024		87,184		175,173		179,522	
Loss from operations	(64,110)		(72,176)	(148,002)		(144,652)	
Share-based compensation expense:								
Research and development	7,315		8,098		15,236		15,963	
Selling, general and administrative	7,626		8,487		15,537		15,898	
Total share-based compensation expense	14,941		16,585		30,773	_	31,861	
Operating expense excluding share-based compensation:								
Research and development operating expense excluding share-based compensation	43,778		54,306		103,456		112,454	
Selling, general and administrative operating expense excluding share-based compensation	18,305		16,293		40,944		35,207	



Cash, cash equivalents and marketable securities.
 Amounts include share-based compensation.



Medicines That Make a Difference®

Differentiated, Wholly-Owned Pipeline







- Ampreloxetine: Phase 3 for symptomatic nOH
- Nezulcitinib: Phase 2 for ALI due to COVID-19 and lung transplant rejection
- TD-8236: Phase 2 for asthma
- · Inhaled ALK5i: Phase 1 for IPF
- · Ocular JAKi: Pre-clinical DME

Viatris Partnership



- Global Partnership for YUPELRI®: nebulized bronchodilator for COPD
- US profit share (35% TBPH / 65% VIATRIS)
- · Ex-US royalties
- Up to \$258mm in remaining milestones, including milestones related to the expanded China partnership

Janssen Collaboration



- Global partnership for izencitinib: Phase 2b/3 for UC and Phase 2 for Crohn's disease
- Up to \$900mm in remaining milestone payments, including \$200mm upon Phase 2 subject to Janssen opt-in
- TD-5202: Phase 1 for Celiac disease

Economic Interest



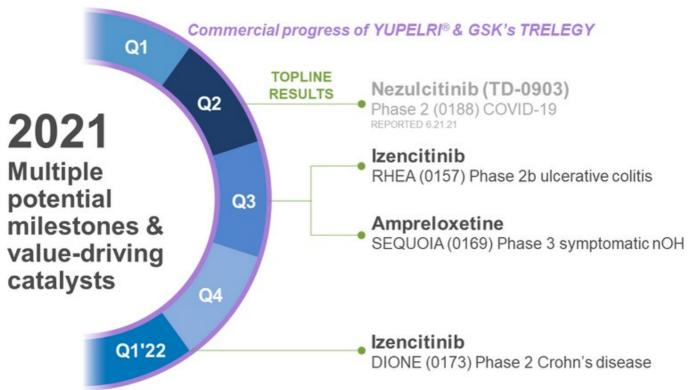
- TRELEGY: Triple combo for COPD and Asthma¹
- 5.5% to 8.5% of global net sales²

Theravance Biopharma Mediones That Make a Difference

1. Asthma approved in the US and Japan only. 2 TBPH holds 85% economic interest in upward-tiering royalty stream of 6.5% – 10% payable by GSK (net of TRC expenses paid and the amount of cash, if any, expected to be used by TRC pursuant to the TRC Agreement over the next four fiscal quarters), 75% of TRC income received is pledged to service outstanding notes, 25% of royalties retained by TBPH.

ALL acute lung inflammation, ALKSt, transforming growth factor is receiptor kinase inhibitor, COPD, chronic obstructive pulmonary disease; DME, diabetic macular edems; PF, idiopathic pulmonary fibrosis; Confidents (Confidents), and the confidence of the confide

20



Theravance Biopharma TBPH holds 85% economic interest in upward-tiering royalty stream of 6.5% – 10% payable by GSK (net of TRC expenses paid and the amount of cash, if any, expected to be used by TRC pursuant to the TRC Agreement over the next four fiscal quarters). 75% of TRC income received is pledged to service outs' is FFUMECVT or futures, 25% of royalties retained by TBPH. Our non-recourse Triple II 9.5% Fixed Rate Term Notes due on or before 2015. At statements concerning TBELEGY based on publicly available information. TRELEGY is Expended. TRELEGY based on publicly available information. TRELEGY is FFUMECVT or futures and expended in the properties of inhaled corticosteroid, long-acting muscarinic receptor antagonist, and long-acting β2 agonists, active components of Anoro (UMECVI). nOH, neurogenic orthostatic hypotension.







Frank Pasqualone Senior Vice President, Chief Business Officer

Q&A Session

Richard A. Graham Senior Vice President, Development





About YUPELRI® (revefenacin) inhalation solution

YUPELRI® (revefenacin) inhalation solution is a once-daily nebulized LAMA approved for the maintenance treatment of COPD in the US.

Market research by Theravance Biopharma indicates approximately 9% of the treated COPD patients in the US use nebulizers for ongoing maintenance therapy.¹ LAMAs are a cornerstone of maintenance therapy for COPD and YUPELRI® is positioned as the first once-daily single-agent bronchodilator product for COPD patients who require, or prefer, nebulized therapy. YUPELRI®'s stability in both metered dose inhaler and dry powder device formulations suggest that this LAMA could also serve as a foundation for novel handheld combination products.



TBPH market research (N=160 physicians); refersto US COPD_patients.
 COPD_chronic obstructive pulmonary disease; LAMA, long-acting muscarinic antagonist.

YUPELRI® (revefenacin) inhalation solution

YUPELRI® inhalation solution is indicated for the maintenance treatment of patients with chronic obstructive pulmonary disease (COPD).

Important Safety Information (US)

YUPELRI is contraindicated in patients with hypersensitivity to revefenacin or any component of this product.

YUPELRI should not be initiated in patients during acutely deteriorating or potentially life-threatening episodes of COPD, or for the relief of acute symptoms, i.e., as rescue therapy for the treatment of acute episodes of bronchospasm. Acute symptoms should be treated with an inhaled short-acting beta2-agonist.

As with other inhaled medicines, YUPELRI can produce paradoxical bronchospasm that may be life-threatening. If paradoxical bronchospasm occurs following dosing with YUPELRI, it should be treated immediately with an inhaled, short-acting bronchodilator. YUPELRI should be discontinued immediately and alternative therapy should be instituted.

YUPELRI should be used with caution in patients with narrow-angle glaucoma. Patients should be instructed to immediately consult their healthcare provider if they develop any signs and symptoms of acute narrow-angle glaucoma, including eye pain or discomfort, blurred vision, visual halos or colored images in association with red eyes from conjunctival congestion and corneal edema.

Worsening of urinary retention may occur. Use with caution in patients with prostatic hyperplasia or bladder-neck obstruction and instruct patients to contact a healthcare provider immediately if symptoms occur.

Immediate hypersensitivity reactions may occur after administration of YUPELRI. If a reaction occurs, YUPELRI should be stopped at once and alternative treatments considered.

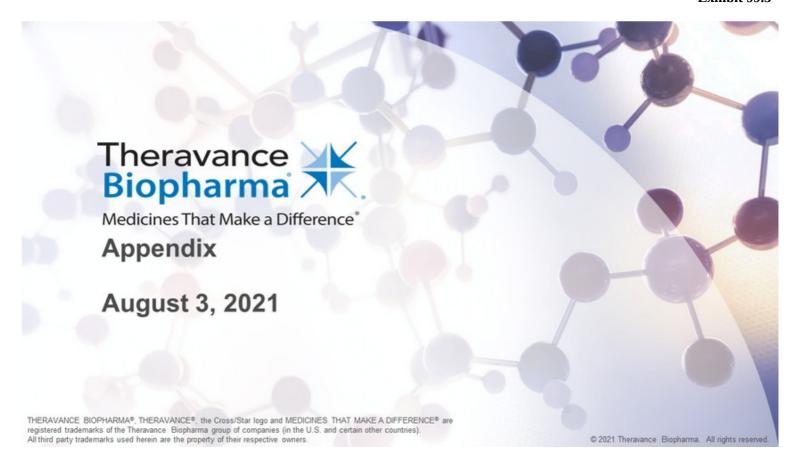
The most common adverse reactions occurring in clinical trials at an incidence greater than or equal to 2% in the YUPELRI group, and higher than placebo, included cough, nasopharyngitis, upper respiratory infection, headache and back pain.

Coadministration of anticholinergic medicines or OATP1B1 and OATP1B3 inhibitors with YUPELRI is not recommended.

YUPELRI is not recommended in patients with any degree of hepatic impairment.



OATP, organic anion transporting polypeptide



Investment highlights

Innovative, commercial-stage biopharma with strong development track record

Decades-long track record of driving innovative products to market for diseases of high unmet need

Wholly-owned and partnered pipeline of differentiated assets

Diversified pipeline of organ-selective medicines for rare disease, respiratory, GI and ocular indications

Theravance Biopharma Medicines That Make a Difference

Organ-selective approach serves as an engine for new opportunities

Three major clinical readouts expected by early-2022

Multiple near-term catalysts provide opportunity for value

Applying organ-selective expertise to biologically compelling pathways aiming to better serve patients

Strong base of cash flow, anchored by Yupelri and our economic interest in TRELEGY

Underlying stream of derisked, long-tailed cash flow

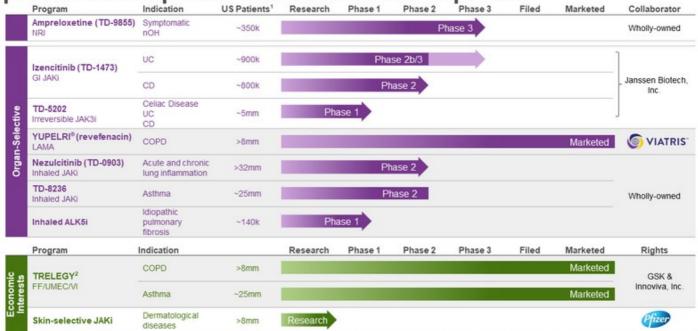
Topline growth poised for potential acceleration

Multiple commercial and near-commercial products create growing revenue profile



-

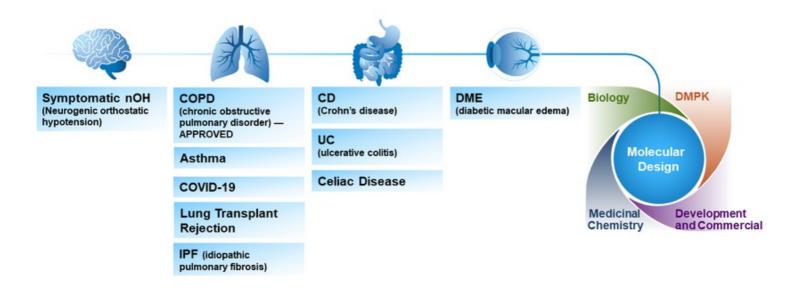
Key programs for large patient populations supported by proven development and commercial expertise Program Indication US Patients¹ Research Phase 1 Phase 2 Phase 3 Filed Marketed Coll.



Theravance # 1.1
Biopharma # cor

1. TBPH estimate derived from integrating multiple data sources 2. TBPH holds 85% economic interest in upward-tiering royalty stream of 6.5% – 10% payable by GSK (net of TRC expenses paid and the amount of cash, if any, expected to be used by TRC pursuant to the TRC Agreement over the next four fiscal quarters), 75% of TRC income received is pledged to service outstanding notes, 25% of royalties received retained by TBPH. All statements concerning TREALEGY ELLIPTA based on publicly available information. ALKS, transforming growth facility receptor (sinase inhibitor; CD, Crohn's disease; COPD, chronic obstructive pulmonary disease; FFMMECVN; fluticasone furostelumecidinjum visinatero! JAKI, Janus kinase inhibitor: UC, ulcerative colitis.

Research and development portfolio of designed molecules: brain, lung, GI and eye



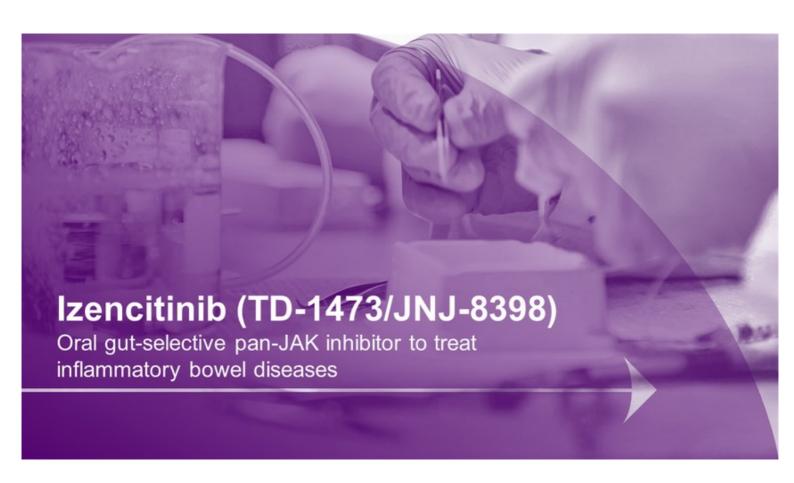
Theravance Biopharma DMPK, drug metabolism and pharmacokinetics; Gl, gastrointestinal

Early stage pipeline, value creation opportunities

Program	Indication	Patient Population	Status
TD-8236	Uncontrolled Asthma	~25mm Moderate and Severe* US Asthmatics ¹	Phase 2; evaluating back-up compounds
TD-5202	Celiac Disease Ulcerative Colitis Crohn's Disease	~5mm US Patients ^{2,3}	Phase 1 Complete
Inhaled ALK5i	IPF	~140k US Prevalence; currently orphan disease ^{4,5}	Phase 1
Ocular JAKi	Diabetic Macular Edema	~2.7mm US Prevalence ⁶	Preclinical



"Astinia mat requires high-dosage k.5 * LAshas to preventine disease fromceing uncontrolled, or astinia that requires high-dosage k.5 * LAshas to preventine disease fromceing uncontrolled, or astinia that requires high controlled in the state of the st



Izencitinib: a novel approach to JAK inhibition for IBD

IBD MARKET DYNAMICS

6.8mm global cases in 20171

1.6mm current US patients2

~900k US Ulcerative Colitis patients³ ~800k current US Crohn's patients⁴

> \$16bn global IBD treatment market in 2018⁵

> \$31bn US disease burden²

Biologics have become mainstay of treatment in moderate-to-severe patients Favorable Phase 1b data led to late-stage IBD studies

Phase 1b data6

- ▶ Demonstrated gut selectivity
 - High colonic concentration with low systemic drug exposures, consistent with pre-clinical data
 - For the goal of maximized therapeutic index
- Demonstrated numerically higher rates of clinical outcomes with reductions in biomarkers after only 4 weeks of treatment
 - Numerical improvements in rectal bleeding and mucosal healing

IBD represents an area of high unmet need

Izencitinib

Preclinical and clinical data package represents a potential breakthrough approach for the treatment of IBD

Oral, gut-selective agent

Potent inhibition of Tyk2

Anti-inflammatory activity in disease model

Low systemic exposure with high colonic concentrations

Favorable Phase 1b data

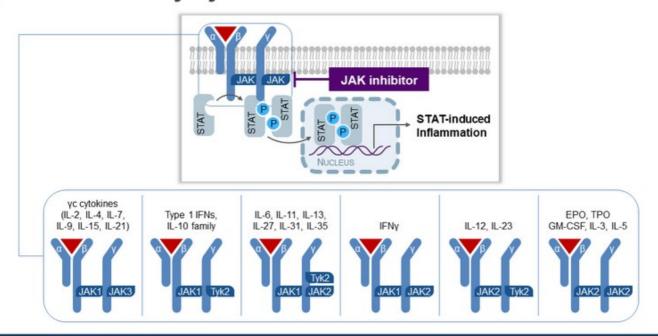
Theravance Biopharma MedionesThat Make a Difference

1. GBD 2017 Inflammatory Bowel Disease Collaborators. Lancet 2020;5:17-30. 2. https://www.cohns.collisis/bundation.org/sites/default/fies/2019-02/Updated%20IBD%20Factbook.pdf.

 https://med.stanford.edu/news/sil-news/2020/02/stanford-adentists-ink-uicerstive-collis-to-missing-gut-micro.html 4. https://www.healthine.co. 5. https://www.transparencymarketresearch.com/inflammatory-bowel-disease.html 6. Sandborn et al. J Crohns Collis-2020.14.1202-13.

BD inflammatory howeld sense: JAK Janus kinase: Tyk tyrosine kinase

JAK-STAT pathway: orchestrating signaling of multiple pro-inflammatory cytokines



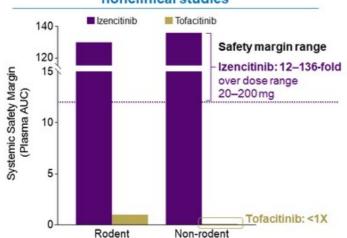
Biopharma XX
MedionesThat Make a Difference

Clark JD, et al. J Med Chem 2014; 57:5023-5038.

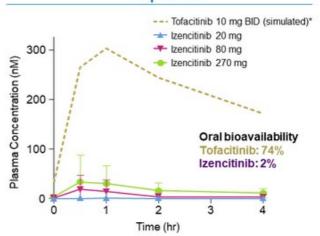
EPO, erythropoietin, GM-CSF, granulocyte-macrophage colony-stimulating factor, FN, interferon; E, interleukin; JAK, Janus kinase; STAT, signal transducer and activator of transcription, TPO, thrombopoietin; Tyk, tyrosine kinase.

Izencitinib's oral, gut-selective, pan-JAK approach is designed to reduce systemic side effects

High margins of systemic safety in nonclinical studies



Low systemic plasma concentrations in UC patients



Gut selectivity confers low systemic exposure and offers the potential for reduced adverse effects



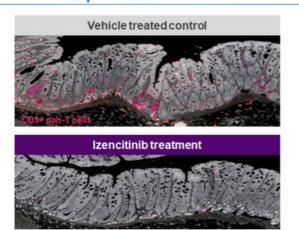
"Simulated to facilitib concentrations extracted from DowlyME, et al. J Pharmacol Exp Ther 2014;348:165-73.

Margins of safety reflect the ratio of nonclinical to clinical plasma exposures at the highest studied clinical dose (izencitinib) or approved dose (tofacilinib) Rodent species was rat for izencitinib and tofacilinib; non-rodent species was dog for izencitinib and monkey for tofacilinib.

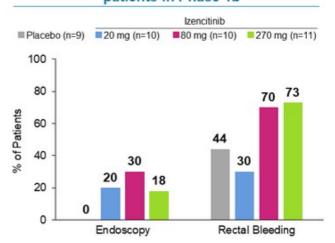
AllC. area under curver BD. Device faith in hour LAX Janux kinaser UC, ulcerative collection.

Izencitinib's oral, gut-selective, pan-JAK approach is designed to maximize efficacy in IBD

Blocks inflammation and penetrates deep within mouse colon



Demonstrates improvement in UC patients in Phase 1b



The gut-selective approach is intended to maximize concentration where it matters, at the site of action in the GI tract



Gl, gastrointestinal, IBD, inflammatory bowel disease; JAK, Janus kinase; UC, ulcerative collis

Pre-clinical and Phase 1b results led to late stage IBD studies with izencitinib

Favorable data from this innovative exploratory Phase 1b study¹

- Confirmed gut selectivity
 - High colonic concentration with low systemic drug exposures, consistent with pre-clinical data
 - For the goal of maximized therapeutic index
- Demonstrated numerically higher rates of clinical outcomes with reductions in biomarkers after only 4 weeks of treatment
 - Numerical improvements in rectal bleeding and mucosal healing
- Led to decision to proceed with development of izencitinib

Global collaboration with Janssen Biotech, Inc. leverages joint development expertise with the potential for up to a total of \$1B in milestone payments to TBPH plus profit-share in US (33% TBPH, 67% Janssen) and double-digit royalties to TBPH ex-US²



Crohn's disease (0173)
Phase 2: 12 weeks (N=160)
Dose-finding induction

→ Active treatment extension: 48 weeks

Ongoing; data expected late Q4 2021 / early Q1 2022

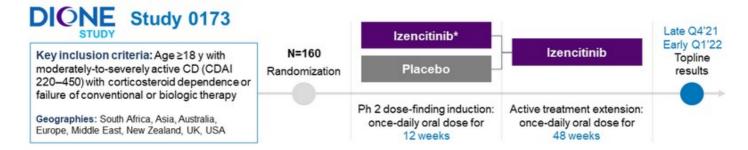


Sandborn et al. J Crohns Coltis;2020:14:1202-13.

Deal value up to \$18 in payments to TBPH, including \$100M upfront previously received; subject to Janssen opt-in.
 Maintenance shuft will have induction responder nations re-randomized to active doses compared to placebo at 44 weeks.

Maintenance study will have induction responder patients re-randomized to active doses compared to pracedo at 44 weeks.
 Patients may enter the Long-Term safety study by completing or terminating. Maintenance study due to loss of response.

Izencitinib: Phase 2 study in Crohn's disease



Endpoints

Primary: Improvement in CDAI score at week 12 in patients with moderately to severely active CD

Ongoing

Program Status

- Exploratory:
 - Clinical response measured by CDAI at 12 weeks
 - CDAI clinical remission at 12 weeks
 - SES-CD change from baseline to Week 12
 - Endoscopic response [Time Frame: 12 weeks]
 - SFAP clinical remission [Time Frame: 12 weeks]



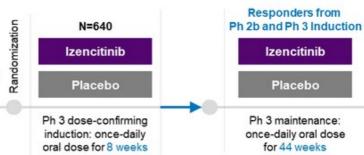
*2 | zenciānib doses NGT0385351; CD, Crohn's disease; CDAI, Crohn's Disease Activity Index; SES-CD, Simple Endoscopic Score for Crohn's Disease; SFAP, Stool Frequency and Abdominal Pain.

Izencitinib: Phase 3 studies in ulcerative colitis



Key inclusion criteria: Age ≥18 y with moderately-to-severely active UC with corticosteroid dependence or failure of conventional or biologic therapy

Geographies: South Africa, Asia, Australia, Europe, Middle East, North America, Japan Ph 3 Induction Study starts after dose selection from Ph 2b Induction



Endpoints

- Primary:
 - Induction & Maintenance: clinical remission by aMS components at Week 8 and Week 44
- Secondary:
 - Induction & Maintenance: endoscopic healing, symptomatic remission, clinical response by aMS, mucosal healing, maintenance of clinical response, corticosteroid-free remission, maintenance of clinical remission

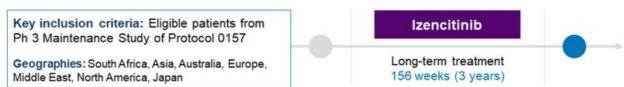
Program Status

- Phase 3 Induction study to begin post Phase 2b completion
- Phase 3 Maintenance study ongoing

Theravance XX Biopharma XX MedionesThat Make a Difference NCT03758443 aMS, adapted Mayo Score; UC, ulcerative colitis.

Izencitinib: Phase 3 study in ulcerative colitis





Assessments

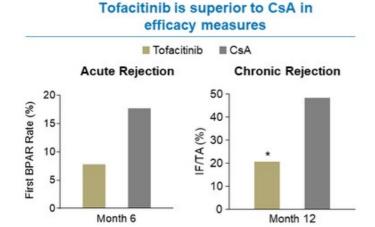
Safety and tolerability of izencitinib administered for up to 3 years in patients with moderate-to-severe UC after participation in the Protocol 0157 Maintenance Study



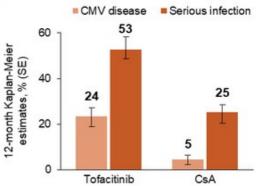
NCT03758443 UC, ulcerative colitis

Pan-JAK inhibitors can prevent transplant rejections

Noninferiority trial of tofacitinib vs cyclosporine (CsA) in kidney transplant recipients1





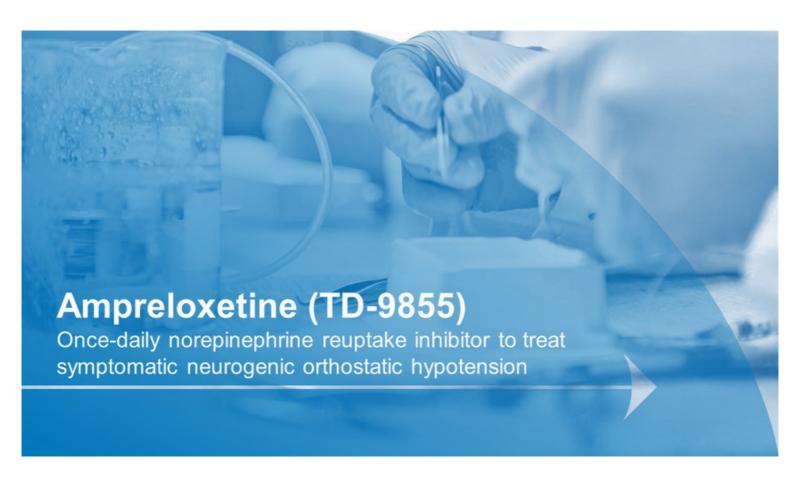


- > JAK inhibition was superior to cyclosporine in prevention of acute and chronic rejections
- Serious infections increased with systemic JAK inhibitors including CMV



Vincenti F, et al. Am J Transplant 2015;15:1644-53.
 *p<0.001 vs CsA.

BPAR, biopsy-proven acute rejection, CMV, cytomegalovirus: F/TA, interstitial fibrosis/tabular atrophy; JAK, Janus kinase, SE, standard error



Ampreloxetine: new approach in nOH

MARKET DYNAMICS

~350K US patients1:

70-80% of MSA patients² 30-50% of PD patients³ have nOH⁴

Specialist network in place: concentrated group of neurologists/ cardiologists treat patients; 'at risk' patients already identified and managed by specialty institutions

Physicians report **urgency to treat** due to high impact on patients' QoL, high risk of injury from falls and caregiver burden

Established nOH Tx paradigm: nOH included in medical treatment guidelines for PD/MSA patients; once diagnosed with nOH, patients prescribed drug

nOH profoundly impacts QoL

Study 0169 primary endpoint: Change from baseline in

OHSA Question 1

OHSA measures core nOH symptom:

Dizziness / lightheadedness due to brain hypoperfusion

Clinically significant endpoint: 1-point OHSA improvement

SYMPTOMS

- ► Dizziness or lightheadedness
- ► Fatigue
- ► Difficulty walking
- ▶ Weakness
- Impaired cognition
- Pain (back of head/neck/shoulders)
- Blurred vision
- ► Tremulousness
- ► Vertigo

IMPACT

Depression
Social isolation
Poor QoL
Falls (fractures/head trauma)
Morbidity



1. https://www.parkinson.org/Understanding-Parkinsons/Statistics: https://www.ninda.nih.gov/Disorders/Patient-Caregiver-Education/Fact-Sheets/Multiple-System-Atrophy.

2. Classen DO, et al. BMC. Neurol 2018;18:125 https://doi.org/10.1186/s12883-018-1129-x.3. Low PA. AMJC 2015;21:13, October 30 https://www.aimc.com/viewface/0034_oct15_noh_low_4. Not all patients are treated

Ampreloxetine: a once-daily, potent and selective norepinephrine reuptake inhibitor with a differentiated MOA for treating nOH

Ampreloxetine is designed to target and correct the norepinephrine imbalance...

NE Release at Neurovascular Junction

AXON TERMINAL

Ampreloxetine

Pre-dose

Post-dose

Vasoconstriction

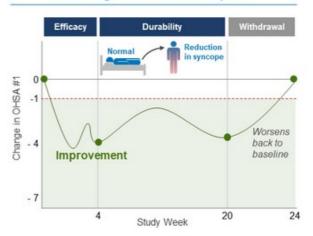
† Blood pressure

...with potential for market differentiation...

Current nOH treatment options:

- No durable effect
- Multiple daily dosing
- Black box warning for SH

...and demonstrated a clinically meaningful and durable impact¹



Our goal: ampreloxetine to be the first treatment to demonstrate a sustained impact for patients managing the chronic and debilitating symptoms of nOH



Kaufmann H, et al. Mov Disord. 2019;34(auppl 2). Poster presented at the 2019 International Congress of Parkinson's and Movement Disorder Society. Note: a 1-point change in the OHSA#1 score is considered clinically meaningful.

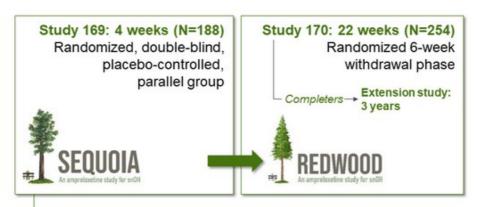
MOA. mechanism of action. Mis. proceedings in 17.

MOA. mechanism of action.

OA, mechanism of action, NE, norepinephrine, NET, norepinephrine transporters; nOH neurogenic orthostatic hypotension; OHSA #1, orthostatic hypotension symptom assessment question #1; SH, supine hypertension

Ampreloxetine: potential to provide meaningful and durable symptom improvement to underserved patients

Phase 3 Registrational Program



Phase 3 registrational program ongoing;
 4-week efficacy data expected Q3 2021



All subjects who complete Study 169 may enroll into 170; all subjects who complete 170 may enroll into extension study/171.

Baseline ORAS #1 (Orthostatic Hypotension Symptom Assessment Question 1) > 4 points. Negative change indicates improvement in symptoms, improvement of 1 point is defined as the MCID (minimal clinically important difference).

Ampreloxetine: Phase 3 registrational program Placebo-controlled, randomized withdrawal study



Key inclusion criteria: Age >30 y with symptomatic nOH with OHSA #1 score ≥4

Geographies: Argentina, Australia, Canada, Europe, New Zealand, Russia, UK, US

Ampreloxetine

Randomization

Placebo

Ampreloxetine

Q3'22 Top-line results

Open-label once-daily 10 mg oral dose: 16 weeks

N=258

Once-daily 10 mg oral dose: 6 week withdrawal phase

Objectives

- Primary: 1-pt worsening from baseline in both OHSA#1 score* and PGI-S during withdrawal phase
- Secondary: Changes from baseline at Week 6 post-randomization
 - OHSA#1
- PGI-S
- OHSA composite score
- % Time spent standing
- OHDAS composite score
- Average no. of steps taken

Program Status

- Phase 3 registrational program ongoing
- All participants who complete Study 0170 are eligible for Extension Study 0171

Theravance Biopharma Modernes

Wegative change indicates improvement in symptoms, improvement of 1 point is defined as the MCID (minimal clinically important differenc Discontinuation rates for the Phase 3 trials as of Jan. 2020; 0170 – 33.3%.

1906/2003/1.
H. neuropenic orthostatic hypotension: OHDAS, orthostatic hypotension daily activities scale: OHSA, orthostatic hypotension symptom assessment: PGi-S, patient global impression of disease severification.

Ampreloxetine: Phase 3 program 6-month safety study + 3-year optional extension



Key inclusion criteria: patients who completed Study 0170 and, in investigator's opinion, would benefit from long-term treatment with ampreloxetine

Geographies: Argentina, Australia, Canada, Europe, New Zealand, Russia, UK, US

Ampreloxetine Q3'22 Top-line results* Once-daily oral dose: 182 weeks

Assessments

- Through Week 26:
 - Physical and neurological exams
 - Vital signs
 ECGs
 Treatment compliance
 Incidence of falls
 - Clinical laboratory tests Changes from baseline in C-SSRS
 - Concomitant medications

Program Status

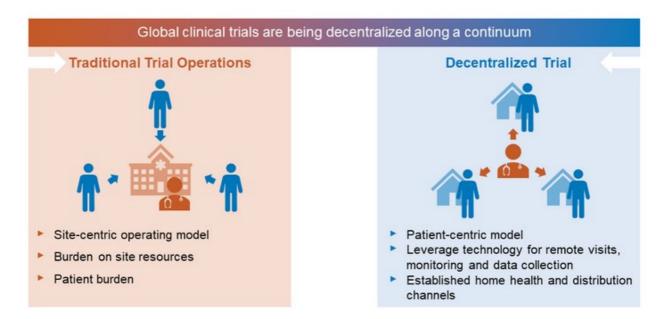
Includes patients who completed Study 0170



"Through week 26; for FDA fling NCT04095793

AE, adverse event; C-SSRS, Columbia Suicide Severity Rating Scale; ECG, electrocardiogra

Decentralized trials move activities from the clinic to home





Source: Theravance Biopharma Clinical Operations.

Ampreloxetine: has the potential to transform Theravance Biopharma into an independent commercial biopharma

Established disease, targeted market

Established nOH treatment paradigm

nOH is included in medical treatment guidelines for PD and MSA patients; once diagnosed, patients get on drug treatment quickly

Specialist networks in place

A concentrated group of neurologists and cardiologists treat patients with nOH; 'at risk' patients already identified and managed by specialty institutions

An urgency to treat

Physicians report high urgency to treat snOH due to the high impact on patients' QoL, high risk of injury from falls and caregiver burden

A strong value proposition

Manageable opportunity

TBPH's infrastructure capable of commercializing ampreloxetine in the US with limited and targeted additions to current resources

Understanding of current access barriers

Meaningful value proposition will drive patient access; Ampreloxetine has the potential to improve the durability of treatment effect and thereby reduce costly events associated with nOH

Established patient advocacy

Strong message from PD and MSA advocacy groups that patients need new therapies to better manage nOH



MSA, multiple systematrophy; nOH, neurogenic orthostatic hypotension; PD, Parkinson's disease; QoL, quality of life; snOH, symptomatic neurogenic orthostatic hypotension.



Nezulcitinib (TD-0903): breaking new ground with inhaled JAKi

Focused execution in acute lung injury (ALI) driven by patient need

COVID-19 MARKET DYNAMICS

>149M COVID-19 patients globally¹; >32M patients in US²

56% of US population ≥1 vaccine dose; 40% fully vaccinated³

Virus still surging in communities / parts of the world¹

5 variants of concern in US4

Declining but substantial proportion of population refusing vaccination⁵

> Disproportionate burden on people of color⁶

Treatments needed for hospitalized COVID-19 patients with acute lung injury

TD-0903 Dose finding placebo controlled data7

- ► Generally well-tolerated
- ▶ Low systemic exposure
- · Positive trend in clinical status, reduced hospital stay
- ▶ No deaths in 3, 10 mg cohorts
- ▶ Improved oxygenation from baseline to Day 7
- ► Improved inflammatory biomarkers

Only therapeutic in development with nebulized lung-targeted approach

BUILDING A PIPELINE IN A PRODUCT

Potential areas for exploration:

ALI in COVID-19 in hospitalized patients

Preventing progression of lung hyperinflammation that leads to hospitalization

Accelerated recovery of long-haul COVID-19 patients

Future applications for coronavirus and influenza inflammation

Prevention of lung transplant rejection



https://www.kff.org/coronavirus-covid-19/fact-sheet/coronavirus-tracker/as of 4.29.21
 https://coronavirus.htm.edu/map.htmlas.of 4.25.21

3. https://covid.cdc.gov/covid-data-tracker/#vaccinations as of 5.3.21

4. https://www.cdc.opv/coronavirus/2019-ncov/transmission/variant.htmlas.of4.2.2

5. https://www.aamc.org/news-insights/herd-immunity-closer-we-think as of 4.25.21

6. https://www.kff.org/coronavirus-covid-19/issue-brief/latest-data-on-covid-19-vaccinations-race-ethnicity/as of 4.25.21

7. https://www.medrxiv.org/content/10.1101/2021.03.09.21252944v1, n=25

Nezulcitinib: Randomized, double-blind, placebo-controlled Ph 2 study in hospitalized patients with COVID-19 requiring oxygen support

Part 2 Study 0188

Key inclusion criteria: Hospitalized patients aged 18–80 y requiring supplemental oxygen to maintain >90% saturation (not requiring IMV) with positive SARS-CoV-2 test <72 h prior to randomization and symptom onset >2–10 d prior to hospitalization

Geographies: South Africa, Europe, UK, USA

Randomization

Placebo + SOC (n=99)

Placebo + SOC (n=99)

Double-blind once-daily nebulized treatment: 7 days
Total observation: 28 days

Objectives

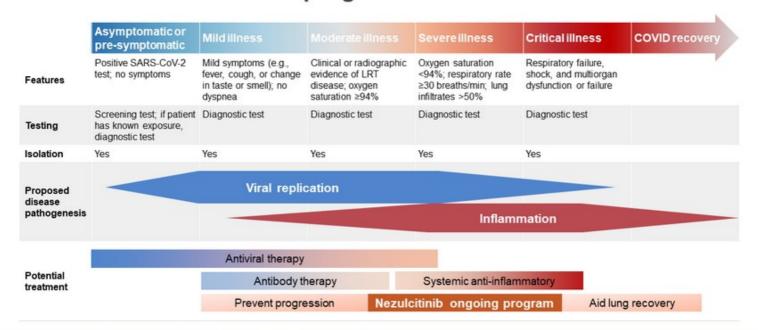
- Primary: Number of respiratory-free days from randomization through Day 28
- Secondary: Tolerability, PK
- Exploratory: Clinical status, duration of hospitalization, repeat-dose safety



"Loading dose (double the standard dose) administered on Day

MV, invasive mechanical ventilation; PK, pharmacokinetics; SARS-CoV-2, Severe acute respiratory syndrome coronavirus 2, SOC, standard of care, includes remdesivir, dexamethasone, anticoagulation

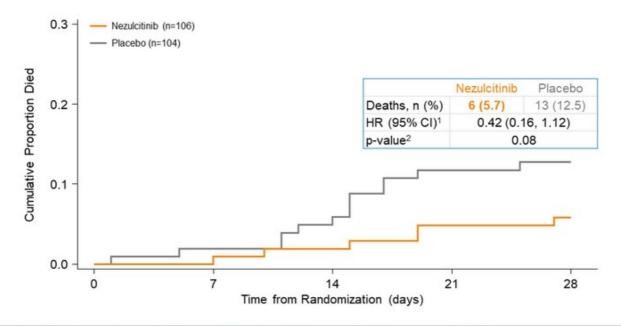
Potential for nezulcitinib to improve lung immune system balance across disease progression



Theravance Biopharma

LRT, lower respiratory tract; SARS-CoV-2, Severe acute respiratory syndrome coronavirus 2

Nezulcitinib showed a trend of improvement in 28-day all-cause mortality rate and time to mortality (ITT)





Hazardiratio (nezulctimb vs placebo) and 95% Cludiated from Cox proportional hazards model adjusting for baseline age strata (#80 vs >60 years)
 Hazardiratio (nezulctimb vs placebo) and 95% Cludiated from the placebo

Cl, confidence interval; HR, hazard ratio; ITT, intent-to-treat.

Executive summary of safety results

	Nezulcitinib n=103	Placebo n=102
Adverse events	34.0%	41.2%
Serious adverse events	9.7%	15.7%
Liver abnormalities or disease	9.7%	7.8%
Serious infections	1.0%	2.0%
Venous thromboembolism	0	4.9%

Nezulcitinib was well tolerated when administered once-daily for up to seven days



Safety data based on 205 treated patient

Nezulcitinib Phase 2 COVID-19 trial summary

Efficacy outcomes, n=210 (ITT)

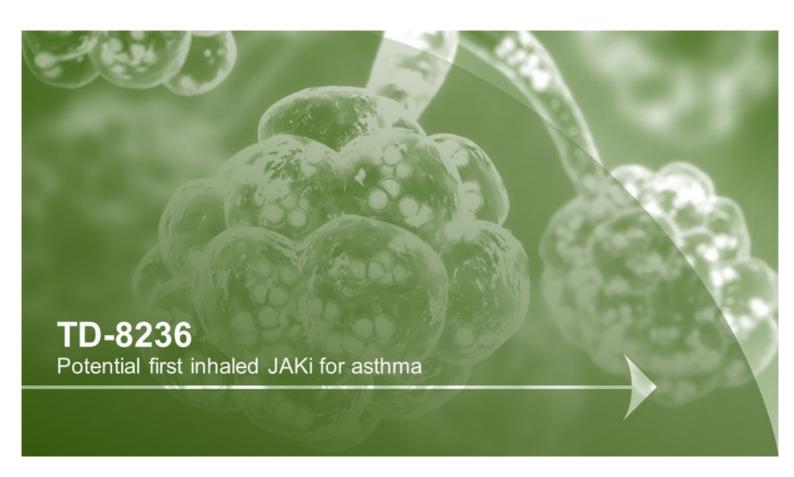
- Primary: No statistically significant difference between nezulcitinib and placebo for RFDs from randomization through Day 28
- Secondary: No difference in change from baseline at Day 7 in SaO₂/FiO₂ ratio, proportion of patients in each category of the 8-point Clinical Status scale, and proportion of patients alive and respiratory failurefree at Day 28
- A favorable trend in improvement for nezulcitinib when compared to placebo for 28-day all-cause mortality and time to recovery

Post-hoc analyses for baseline CRP, n=201

- CRP <150 mg/L (n=171): Nezulcitinib showed improvement in time to recovery and 28-day all-cause mortality
- CRP ≥150 mg/L (n=30): No differences between groups
- Nezulcitinib was well-tolerated when administered once-daily for up to seven days
- Plasma exposure was low, consistent with expectations for a lung-selective medicine



CRP, C-Reactive protein, ITT, intent-to-treat, RFDs, Respiratory Failure-Free Days, SaO_FFO2, percent oxygen saturation in arterial blood/fractional percentage of inspired oxygen



High medical and economic burden in uncontrolled asthma



339M cases worldwide¹

25 M
US cases
8% of adults
8% of children²

Moderate

25
Healthcare utilization³

~\$58B US medical costs4

~\$15B US asthma market (October 2020)⁵

CURRENT TREATMENT LANDSCAPE ICS + LABA (often fail to control disease)
Approved biologics (affect subsets of patients)

- · XOLAIR (omalizumab)
- · NUCALA (mepolizumab)
- · CINQAIR (reslizumab)
- · FASENRA(benralizumab)
- · DUPIXENT (dupilumab)

Step-up for severe asthma: LTRAs, tiotropium, OCS, biologics

JAK/STAT cytokines implicated in moderate-to-severe asthma

T2-high	T2-low
IL-4	IL-23/IL-12
IL-13	IL-6
IL-5	IL-27
TSLP	IFN-y

Bold: biologics in development or approved.



TD-8236

Potential to transform the treatment of respiratory inflammation by treating moderate-to-severe asthma regardless of T2 phenotype, including patients who remain symptomatic despite compliance on high-dose ICS

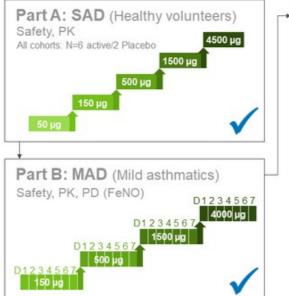


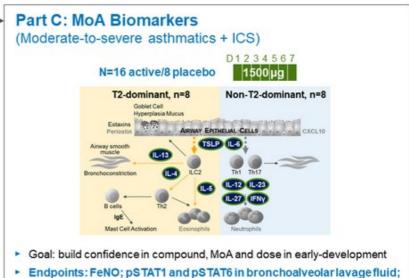
*Asthma that requires high-dosage ICS + LABAs to prevent the disease from being uncontrolled) or asthma that remains uncontrolled despite treatment.

1. World Health Organization; 2. https://www.aafs.org/asthma-fads/; 3. Sadatsafavi, M., et al. Can. Respir J 2010;17:74-80. 4. Nurmagambetov: T, et al. Ann Am Thorac Soc 2018;15:348-56; 5. TBPH estimate based or multiple data sources. ICS, inhaled corticosteroids; FN, interferon; L, interfeukin; JAK, Janus kinase; LABA, long-acting β2 agonists; LTRA, leukotriene receptor antagonist; OCS, oral corticosteroid; STAT, signal

TD-8236: Phase 1 clinical trial design

Parts A & B completed September 2019; Part C enrollment completed — data reported in Q4 2020







CXCL, chemokine (C-X-C motif) ligand; FeNO, fractional exhaled nitric oxide; KCS, inhaled corticosteroids; FN, interferon; IgE, immunoglobulin E; L, interleukin; LC2, type 2 innate lymphoid cells; MAD, multiple-ascending dose; MAA, Mechanism of Action; PK, pharmacokinetic; PD, pharmacodynamic; pSTAT, phosphorylated signal transducer and activator of transcription; SAD, single-ascending dose; T2, type 2; Th2, T helper type 2; TST, Physics stemplate hymphoceiding lymphoceiding lymphoceidin

cytokines; epithelial gene expression

TD-8236: Positive Phase 1 trial in healthy subjects and patients with mild and moderate-to-severe asthma

Phase 1 Profile	Healthy Volunteer Single Dose (Part A)	Mild Asthma Multiple Dose (Part B)	Moderate-to-Severe Asthma [+ ICS] Multiple Dose (Part C)
Generally well tolerated	✓	✓	✓
Minimal systemic exposure	✓	✓	✓
PK and PD profile consistent with once-daily dosing	✓	✓	✓
Biologic activity in lungs of patients with asthma		✓ ↓ FeNO	✓ ↓ FeNO, pSTAT1, pSTAT6

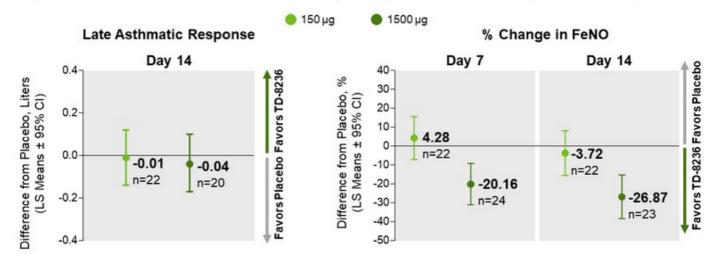
- Biomarkers of JAK target engagement (pSTAT1 and pSTAT6) significantly reduced in lungs of T2 high and T2 low moderate/severe asthmatics on top of ICS
- Ongoing analysis of effect of TD-8236 on additional biomarkers including cytokines and gene expression



FeNO, fractional exhaled nitric exide; ICS, inhaled corticosteroids; JAK, Janus kinase; PD, pharmacodynamic; PK, pharmacokinetic; pSTAT, phosphorylated signal transducer and activator of transcription; T2, type 2.

No impact of TD-8236 on the Late Asthmatic Response (LAR)

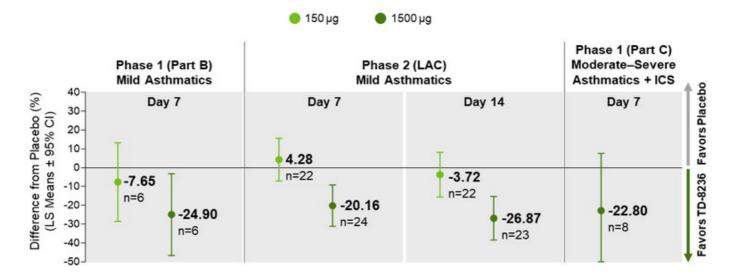
Significant reductions in inflammation marker (FeNO) and favorable safety and tolerability



TD-8236 was generally well tolerated as a single-daily dose administered for 14 consecutive days

Theravance Biopharma Primary Endpoint: Weighted Mean Area Under the Curve, 3–8 h. Cl, confidence interval, FeNO, fractional exhaled nitric oxide; LS, least-squares

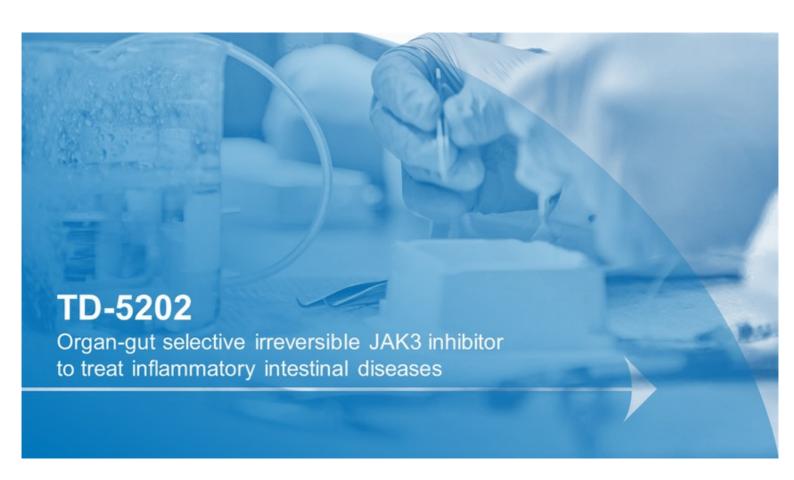
TD-8236 FeNO reductions consistent across Phase 1 and 2



FeNO reductions observed in moderate-to-severe asthmatics taking inhaled corticosteroids

Theravance Hiopharma

Cl, confidence interval; FeNO, fractional exhaled nitric oxide; ICS, inhaled corticosteroids; LAC, lung allergen challenge; LS, least-squares.



Celiac disease has no current treatments and serious health consequences



1% Global prevalence¹ 3.3M US patients^{2,3} 4-4.5x increase in US over past 50 y⁴

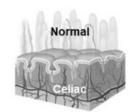
>2x higher healthcare costs than controls⁵



No approved treatment

Only available intervention is strict life-long gluten-free diet

30% of diagnosed patients are poorly controlled despite best dietary efforts 6





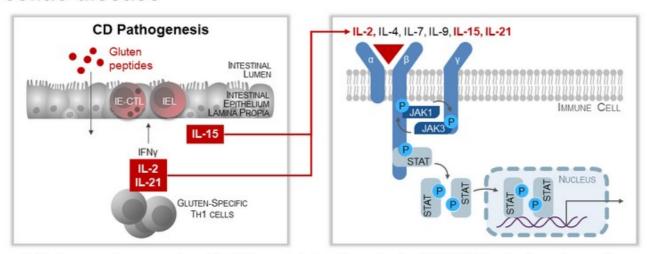
TD-5202

Organ-gut selective irreversible JAK3 inhibitor: potential to deliver significant value for both patients and payers



http://www.drschaer-institute.com/us/cellac-disease/epidemology-1033.html; 2. 1% prevalence in US, BeyondCellac.org; 3. 2018 US population 327M Census gov.
 4. Reunala T, et al. Nutrients 2018;10.pit E802; 5. Guandalini et al. Digestive Diseases Sciences 2016;61:2823-30; 6. Theravance Market Research.
 JAK, Janus Kinase.

JAK3-dependent cytokines play central role in pathogenesis of celiac disease



- Proof-of-relevance from recent positive Phase 2 data with systemic JAK3 inhibitor in alopecia areata, another T-cell mediated disease
- Localized JAK3 inhibition has the potential to avoid systemic immunosuppression (genetic JAK3 deficiency leads to severe immunodeficiency)



Figure adapted from Jabri B and Solid L. J. Immunol. 2017;198: 3005-14.

CD, Crohn's disease; E-CTL, intraepithelial cytotoxic lymphocyte; EL, intraepithelial lymphocyte; FN, interferon; L, interleukin; JAK, Janus kinase; STAT, signal transducer and activator of transcription; Th1, T helper 1

TD-5202 First-in-human overall results summary

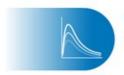
TD-5202: generally well-tolerated (single dose ≤2000 mg, multiple doses ≤1000 mg BID) for 10 consecutive days in healthy subjects



- No serious or severe AEs were reported
- All treatment-emergent AEs in TD-5202-treated subjects were mild in severity



- No clinically significant changes from baseline in vital signs and ECG assessments
- No clinically significant changes in chemistry or hematology parameters
 - No changes in NK cell count



- Systemic exposures were dose proportional from 100 to 1000 mg BID
- Low steady-state systemic exposures: mean C_{max,ss} ~11-fold below the protein-adjusted JAK IC₅₀ at the highest tested dose (1000 mg BID), consistent with a gut-selective approach



E, adverse event, EID, twice daily; C_{maxas}, maximal steady-state concentration; ECG, electrocardiogram; IC₀₀. Inhibitory concentration at which 50% of JAK signaling is blocked; JAK, Janus kinase; IC₀₀. K, natural killer



Idiopathic pulmonary fibrosis (IPF) remains a fatal chronic lung disease with limited treatment options



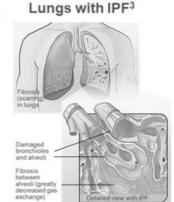
140,000 US prevalence; currently orphan disease^{1,2}



Profound dyspnea, unrelenting cough, impairment of activities of daily living



Mortality with IPF remains high





Limited treatment options

2 currently approved therapies, with modest efficacy and poor tolerability

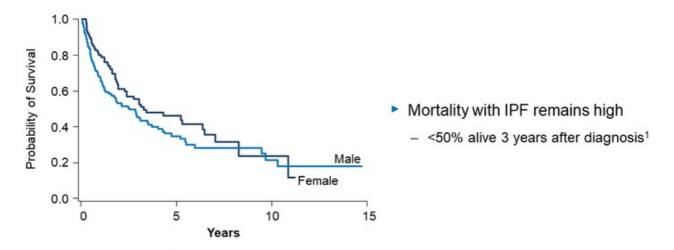


Inhaled ALK5i Potential first-in-class inhaled ALK5 inhibitor anti-fibrotic agent for IPF Despite treatment with the current SoC, IPF patients continue to experience disease progression and exacerbation



1. Raghu G, et al. Lancet Resp. 2014: 2(7):566-572; 2. Raghu G, et al. Eur Respir J. 2016: 48(1):179-186; 3. National Heart Lung and Blood Institute (NH), Public Domain, https://commons.wkimedia.org/w/index.php?curid=29590103.
ALKSI, transforming growth factor β receptor I kinase inhibitor; Soc, Standard of Care.

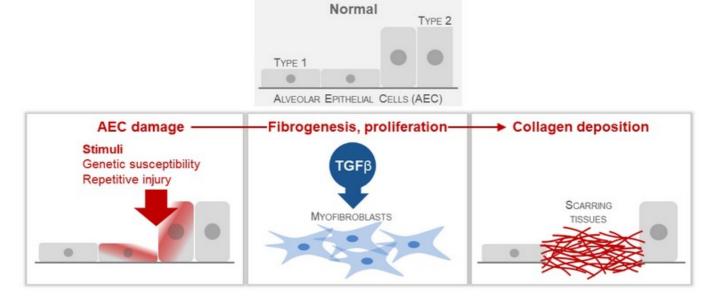
Significant opportunity remains for effective IPF treatments



Goal To arrest disease progression with improved tolerability

Theravance AK Biopharma AK MedionisThis Make a Difference King TE, et al. Am J Respir Crit Care Med 2001;164:1171-81
PF, idiopathic pulmonary fibrosis.

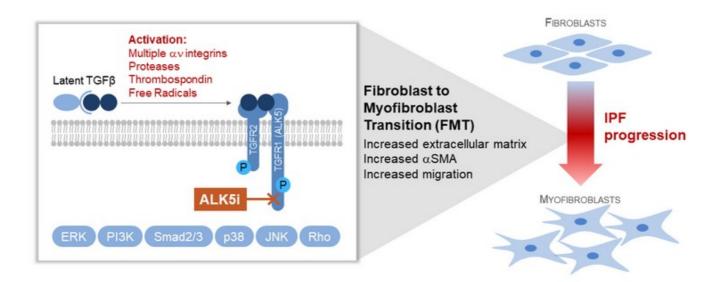
Targeting the TGFβ pathway A core signaling pathway that drives fibrosis



Theravance # Biopharma

Selectively targeting the TGF\$\beta\$ pathway through ALK5 inhibition

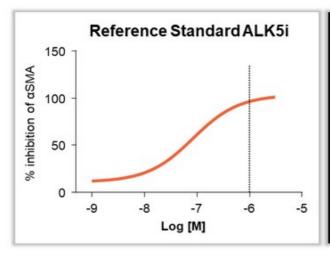
Inhibiting a core signaling pathway that drives fibrosis regardless of activation mechanism

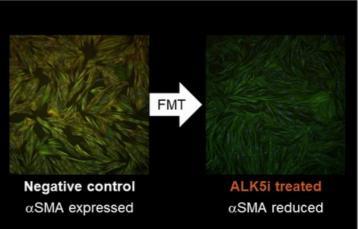




Adapted from Neuzalet C, et al. Oncotarget 2013;5:78-94.
aSMA, a-smooth muscle actin; ERK, extracelular signal-regulated kinase; PF, idiopathic pulmonary fibrosis; JNK, c-Jun N-terminal kinase; PGK, phosphatidylinostol-4,5-bisphosphate 3-kinase; Smad2/3, mothers against decapentaplegic homolog 2/3; TGFR (ALKS), transforming growth factor receptor.

ALK5 inhibition directly interrupts FMT in IPF



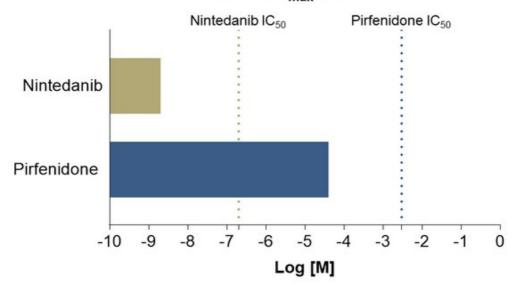


Biopharma

ALKSI, transforming growth factorβ receptor I kinase inhibitor; αSMA, α-smooth muscle actin; FMT, fibroblast to myofibroblast transition.

Current treatment options have no effect on FMT at clinically relevant concentrations



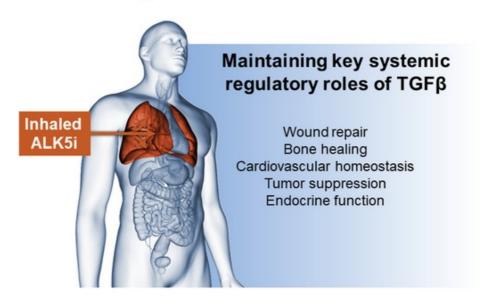




https://www.tea.gov.au/stea/fite.html/stea/eneroideanb-ei/state-1802/08.pdf.
 Ogura T, et al. Eur Respir J. 2015;45:1382-92.
 C_{max}, maximal concentration; FMT, fibroblast to myofibroblast transition; IC_{sto}, half maximal inhibitory concentration.

Lung selectivity avoids unwanted systemic side effects

Minimizing systemic inhibition of a cytokine essential for homeostasis





Modified from: Althurst RJ, Hata A. Nat Rev Drug Discov 2012;11:790-811.
ALKSt, TGFB receptor I kinase inhibitor; TGFB, transforming growth factor B.



Diabetic macular edema causes blindness in diabetics



cause of blindness in diabetes2

140% higher direct and indirect healthcare costs in patients with DME vs diabetics without ocular disease3



Anti-VEGF treatments Most patients have suboptimal response Intraocular steroids Side effects limit utility

Nonpharmacological treatments (e.g. laser coagulation) limited efficacy and significant adverse events



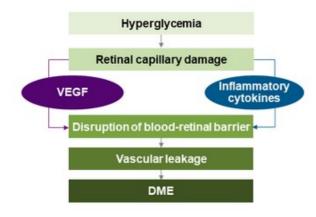


Ocular **JAKi**

Potential to offer an alternative treatment for DME patients who are not optimally responding to treatment with VEGFi



Inflammation, not just VEGF, is a key driver of DME



Current Pharmacological Treatments

Intraocular anti-VEGF agents

- One third do not respond to anti-VEGF while another third have a suboptimal response¹
- Require frequent intravitreal injections

Intraocular steroids

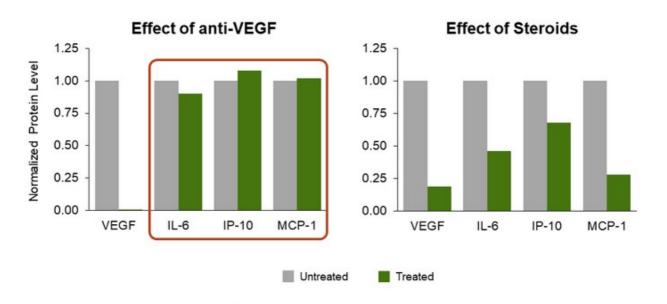
High frequency of formation of cataracts and glaucoma

Need for broad, sustained release, anti-inflammatory with a safer side-effect profile



Gonzalez VH, et al. Am J Ophthalmol 2016;172:72-79.
 DME, diabetic macular edema; VEGF, vascular endothelial growth factor.

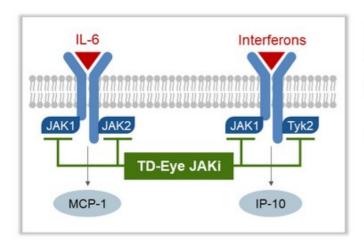
Unmet need for an anti-inflammatory drug: opportunity for eye-selective JAK inhibition





dapted from Sohn HJ, et. al. Am J Ophthalmol 2011; 152/686-694. -6, interleukin-6; P-10, interferon γ-induced protein 10; JAK, Janus kinase; MCP-1, monocyte chemoattractant protein-1; VEGF, vascular endothelial growth factor.

Ocular pan-JAK inhibition has the potential to address key disease pathways in DME



TD-EyeJAKi inhibits key DME inflammatory pathways:

- IL-6 and interferon signaling pathways in human primary cells
- ► IL-6 induced pSTAT3 and interferon-induced IP-10 in the back of the eye *in vivo*



DME, diabetic macular edema; L.-6, interfexik-6; p.10, interferon v. induced protein 10; JAK, Janus kinase; MCP-1, monocyte chemoattractant protein-1; pSTAT, phosphorylated signal transducer and activator of these activities of the control of the

A pan-JAK inhibitor designed for eye selectivity with projected dosing interval of at least three months



