UNITED STATES SECURITIES AND EXCHANGE COMMISSION

WASHINGTON, D.C. 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): October 3, 2019

resTORbio, Inc.

(Exact name of Registrant as Specified in Its Charter)

Delaware001-3835981-3305277(State or Other Jurisdiction of Incorporation)(Commission (IRS Employer File Number)(IRS Employer Identification No.)

 500 Boylston Street, 12th Floor

 Boston, MA
 02116

 (Address of principal executive offices)
 (Zip Code)

Registrant's telephone number, including area code: (857) 315-5521

Not Applicable
(Former Name or Former Address, if Changed Since Last Report)

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	nded to simultaneously satisfy the fi	ling obligation of the registrant under any of the		
Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)				
Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)				
Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))				
Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))				
urities registered pursuant to Section 12(b) of the Act:				
Title of each class	Trading Symbol(s) TORC	Name of each exchange on which registered The Nasdaq Global Select Market		
	wing provisions: Written communications pursuant to Rule 425 under the Soliciting material pursuant to Rule 14a-12 under the Ex Pre-commencement communications pursuant to Rule 14 Pre-commencement communications pursuant to Rule 15 urities registered pursuant to Section 12(b) of the Act:	Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425) Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12) Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 prities registered pursuant to Section 12(b) of the Act: Trading Title of each class Trading Symbol(s)		

Indicate by check mark whether the registrant is an emerging growth company as defined in Rule 405 of the Securities Act of 1933 (§ 230.405 of this chapter) or Rule 12b-2 of the Securities Exchange Act of 1934 (§ 240.12b-2 of this chapter).

Emerging growth company $\ oxtimes$

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act. \Box

Item 7.01. Regulation FD Disclosure.

resTORbio, Inc. (the "Company") from time to time presents and/or distributes to the investment community at various industry and other conferences slide presentations to provide updates and summaries of its business. A copy of its current corporate slide presentation (the "Presentation") is furnished herewith as Exhibit 99.1 and incorporated herein by reference. The Company undertakes no obligation to update, supplement or amend the materials furnished herewith as Exhibit 99.1.

Item 9.01 Financial Statements and Exhibits.

(d) Exhibits

Exhibit Number

Description

99.1 <u>Corporate slide presentation of resTORbio, Inc., dated October 3, 2019.</u>

SIGNATURES

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: October 3, 2019

resTOR bio, Inc.

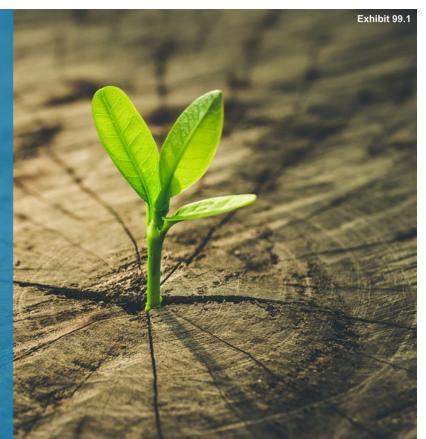
By: /s/ Chen Schor Chen Schor President and Chief Executive Officer

TORC1 inhibition with RTB101 as a potential pan-antiviral immunotherapy to decrease the incidence of respiratory tract infections due to multiple respiratory viruses in older adults



Joan Mannick MD

Amelia Tomlinson PhD, Grace Teo PhD, Sarb Shergill PhD, Lloyd Klickstein MD PhD

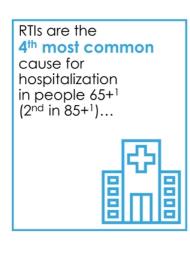


Forward-looking statements

This presentation has been prepared by resTORbio, Inc. ("we," "us," "our," "resTORbio," or the "Company") and is made for informational purposes only and does not constitute an offer to sell or a solicitation of an offer to buy securities. This presentation may contain "forward-looking statements" within the meaning of the Private Securities Litigation Reform Act of 1995, including, but not limited to, statements regarding the safety, efficacy and regulatory and clinical progress of our product candidates, including RTB101 alone and in combination with a rapalog, such as everolimus or sirolimus. All such forward-looking statements are based on management's current expectations of future events and are subject to a number of risks and uncertainties that could cause actual results to differ materially and adversely from those set forth in or implied by such forward-looking statements. The use of words such as, but not limited to, "may," "might," "will," "should," "expect," "plan," "anticipate," "believe," "estimate," "project," "intend," "future," "potential," or "continue," and other similar words or expressions are intended to identify forward-looking statements are neither historical facts nor assurances of future performance. Instead, they are based on our current beliefs, expectations and assumptions regarding the future of our business, future plans and strategies, our clinical results and other future conditions. All statements other than statements of historical facts contained in this presentation, including statements regarding future results of operations and financial position, business strategy, current and prospective product candidates, ongoing planned clinical trials and preclinical activities, including the initiation, timing, enrollment, progress and results of our preclinical and clinical studies and our research and development programs, product approvals, research and development const, current and prospective collaborations, timing and likelihood of success of our Phase 3 clinical trials of

These statements are also subject to a number of material risks and uncertainties that are discussed in the section entitled "Risk Factors" in resTORbio's annual report on Form 10-K for the fiscal year ended December 31, 2018, as well as discussions of potential risks, uncertainties, and other important factors in resTORbio's subsequent filings with the Securities and Exchange Commission. Any forward-looking statement speaks only as of the date on which it was made. Neither we, nor our affiliates, advisors or representatives, undertake any obligation to publicly update or revise any forward-looking statement, whether as a result of new information, future events or otherwise, except as required by law.

Certain information contained in this presentation relates to or is based on studies, publications, surveys and other data obtained from third-party sources and the Company's own internal estimates and research. While we believe these third-party sources to be reliable as of the date of this presentation, we have not independently verified, and we make no representation as to the adequacy, fairness, accuracy or completeness of any information obtained from third-party sources. In addition, all of the market data included in this presentation involves a number of assumptions and limitations, and there can be no guarantee as to the accuracy or reliability of such assumptions. Finally, while we believe our own internal research is reliable, such research has not been verified by any independent source.





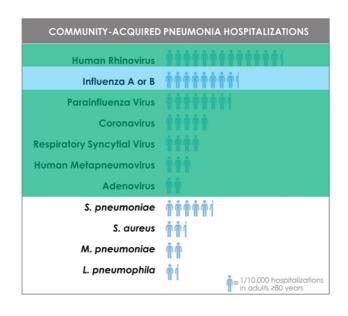
...and the 8th leading cause of death in people 65+² (7th in 85+²) The majority of RTIs are **caused by viruses** for which there are no approved therapies³





Decreasing the incidence of RTIs in older adults may significantly decrease health care resource utilization

Most of the viral pathogens causing pneumonia in the elderly currently have neither preventative vaccines nor treatments



An immunotherapy that upregulates innate panantiviral immunity may offer a new approach to preventing RTIs in the elderly

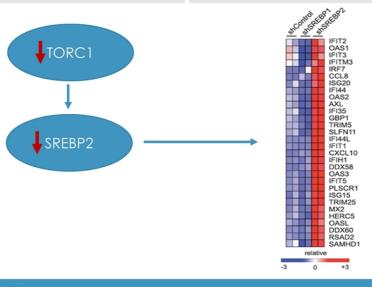
al NE IM 2015

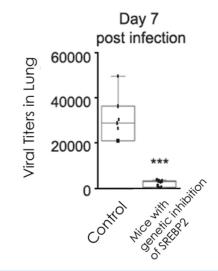
TORC1 inhibition may increase innate antiviral immunity

TORC1 inhibition decreases SREBP2 activation

Inhibition of SREBP2 with shRNA upregulates antiviral gene expression

Inhibition of SREBP2 decreases viral titers in lungs of mice infected with murine gammaherpesvirus MHV-68





York et al. Cell, 2015 res**TOR**bio

Phase 2b study to determine if TORC1 inhibition upregulates innate antiviral immunity and decreases RTI incidence in high-risk elderly patients

Phase 2b Study Design

POPULATION:









85 and olde

65 and older w/ asthma

65 and older w/ diabetes

65 and older w/

65 and older, smokers

% of subjects with ≥ 1 laboratory-confirmed RTIs

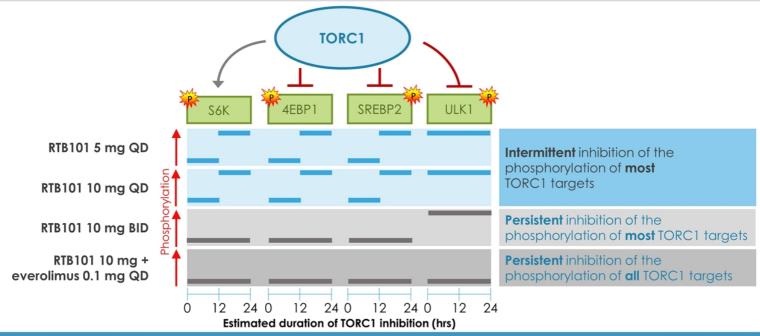
DOSING DURATION:

16 weeks during winter cold and flu season

RTB101, an oral TORC1 inhibitor, alone or in combination with everolimus, another TORC1 inhibitor

Matching placebo

Phase 2b evaluation of a range of TORC1 inhibitory regimens for reduction of RTIs in high-risk patients ≥65 years old



(D = once daily; BID = twice daily

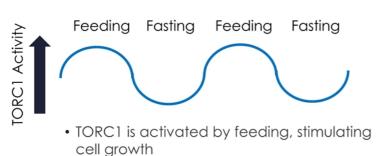
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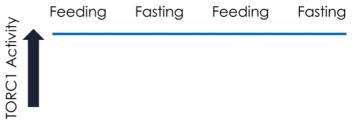
Why might intermittent TORC1 inhibition lead to improvement in immune function?

TORC1 becomes dysregulated and overactive with aging

Young Animals



 TORC1 is inhibited by fasting, leading to upregulation of protective pathways Old Animals

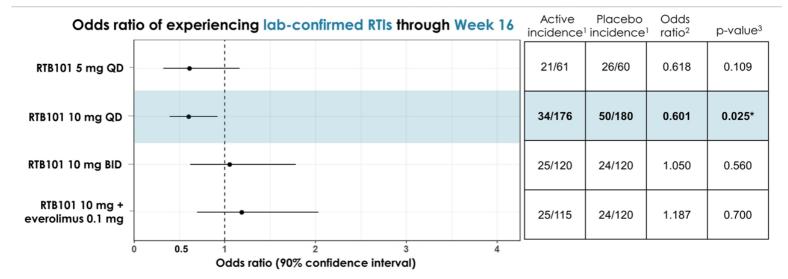


 TORC1 remains persistently activated, preventing upregulation of protective pathways

Therefore turning down TORC1 to young levels even intermittently may have health benefits in elderly humans

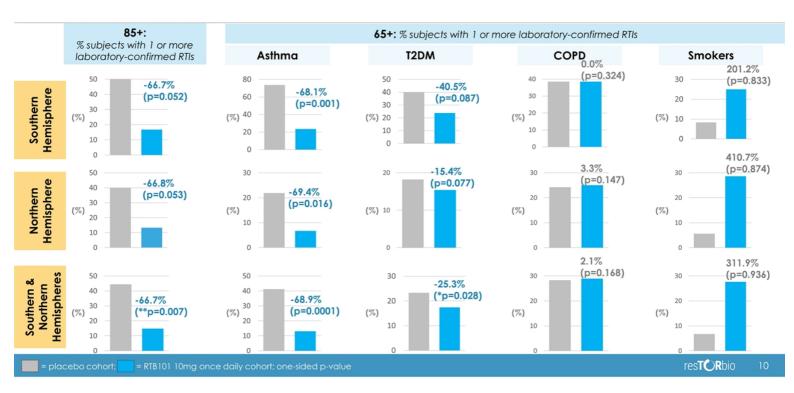
Adapted from Sengupta et al., *Nature*, 2010

RTB101 10mg QD was observed to reduce the incidence of laboratory-confirmed RTIs through Week 16

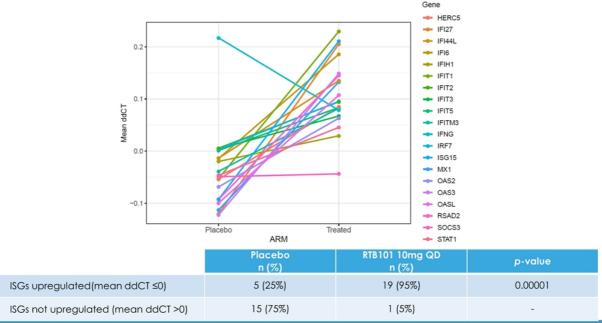


RTB101 10 mg QD demonstrated a 30.6% reduction in the percentage of subjects with laboratory-confirmed RTIs compared to placebo

No. of subjects in cohort with one or more laboratory-confirmed RTIs/No. of subjects in cohort; ²Odds ratio represents the odds of experiencing one or more

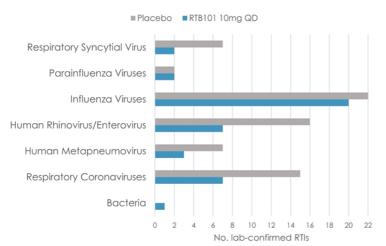


RTB101 10mg QD was observed to increase expression of interferon-stimulated antiviral genes

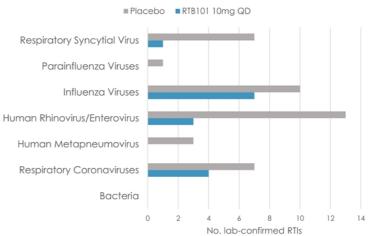


RTB101 10mg QD was observed to reduce RTIs due to multiple viruses

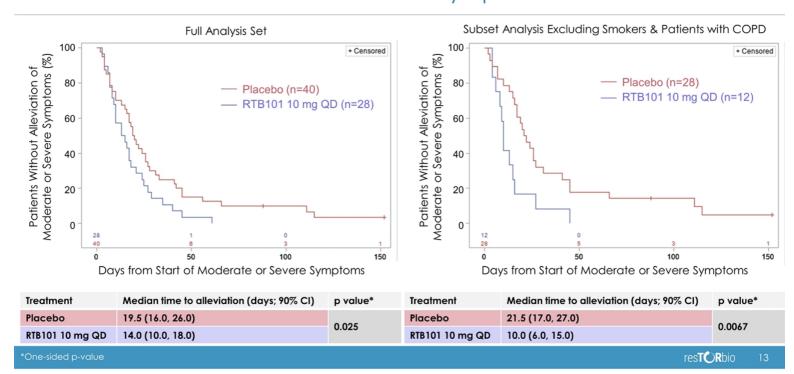




Subset Analysis Excluding Patients with COPD & Smokers



Post-hoc analysis: RTB101 10 mg QD was observed to reduce time to alleviation of moderate or severe symptoms



Post-hoc analysis: RTB101 10mg QD was observed to reduce all-cause hospitalization at Week 16

	Number of events in treatment group			
	RTB101 10 mg QD	Placebo	Rate Ratio (90% CI)	p-value*
All-cause hospitalization	6	14	0.439 (0.196-0.983)	0.047

*One-sided p-value res**TOR**bio

RTB101 was well tolerated when given to older adult subjects for 16 weeks during winter cold and flu season

- 10mg QD is 1/120th of the RTB101 maximum tolerated dose in humans
- Adverse events (AEs) were balanced between the RTB101 10 mg QD and placebo cohorts
- 3 unrelated deaths:
 - 1 patient in RTB101 10 mg QD cohort hit by car while riding a bicycle
 - 1 unrelated death occurred in the RTB101 10 mg BID cohort from unknown cause

1 in placebo cohort from unknown cause	% of patients in tre	% of patients in treatment group	
	RTB101 10 mg QD	Placebo	
Mild AEs	74.4%	71.7%	
Moderate AEs	38.1%	40.6%	
Severe AEs	5.7%	7.8%	
Serious AEs	4.5%	7.8%	
Discontinued study drug due to an AE	5.1%	5.6%	

Summary

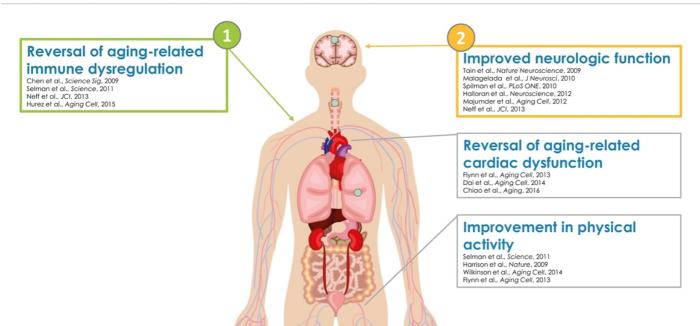
- In a Phase 2b study, RTB101 10mg once daily was well tolerated and observed to upregulate innate antiviral gene expression and reduce the incidence of RTIs caused by multiple different viruses
- A Phase 3 program is underway to confirm these findings

Many thanks to the resTORbio team



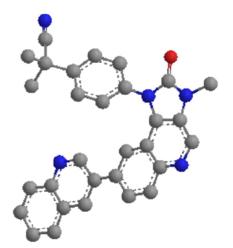


Inhibition of TORC1 has potential to improve the function of multiple aging organ systems

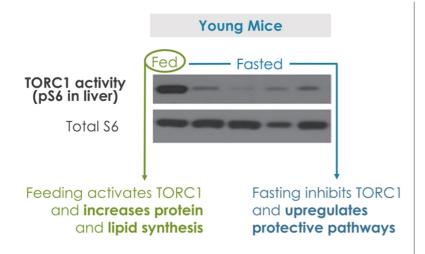


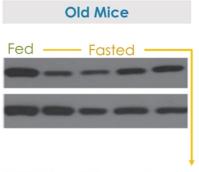
RTB101 is an oral, potent inhibitor of TORC1

- RTB101 offers a potential new approach: harnessing the innate immune system to defend against illnesses associated with viral RTIs
- Half-life = 4-6 hours
- Therapeutic dose is 1/120th of the maximum tolerated dose in humans
- Dosed in >1,000 subjects
- Potential to address multiple aging related diseases

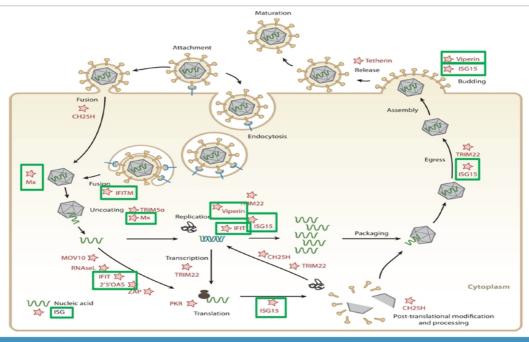


Intermittent TORC1 inhibition may restore the normal circadian rhythm of TORC1





TORC1 activity remained aberrantly elevated during fasting, which may **prevent upregulation** of protective pathways



Adapted from Schneider et al. Annu Rev Immunol, 2014

Treatment-emergent AEs observed in ≥2% of subjects in RTB101 10 mg QD or placebo cohorts through week 16

	n (%) of patients in t	n (%) of patients in treatment group		
	RTB101 10mg QD	Placebo		
	(N = 176)	(N = 180)		
Headache	10 (5.7)	13 (7.2)		
Constipation	3 (1.7)	10 (5.6)		
Diarrhea	8 (4.5)	6 (3.3)		
Fatigue	6 (3.4)	6 (3.3)		
Fall	6 (3.4)	6 (3.3)		
Nausea	1 (0.6)	6 (3.3)		
Anemia	2 (1.1)	5 (2.8)		
Arthralgia	2 (1.1)	5 (2.8)		
Blood creatinine increased	4 (2.3)	3 (1.7)		
Pain	2 (1.1)	4 (2.2)		
Back pain	4 (2.3)	2 (1.1)		
Hyperglycemia	4 (2.3)	2 (1.1)		
Limb injury	1 (0.6)	4 (2.2)		
Tooth abscess	4 (2.3)	1 (0.6)		
Decreased appetite	1 (0.6)	4 (2.2)		
Skin abrasion	4 (2.3)	0 (0)		

Future directions: Phase 3 Program PROTECTOR

Patient population: ≥65 years, excluding smokers/COPD patients

