

Corporate Update
Annual & Special Meeting
September 12, 2018

Forward Looking Statement



This news release may contain certain forward-looking information as defined under applicable Canadian securities legislation, that are not based on historical fact, including without limitation statements containing the words "believes", "anticipates", "plans", "intends", "will", "should", "expects", "continue", "estimate", "forecasts" and other similar expressions. In particular, this news release includes forward looking information relating to the Phase 3 BETonMACE clinical trial, Phase 2a kidney dialysis clinical trial and Fabry Disease clinical trial, and the potential role of apabetalone in the treatment of CVD, DM, chronic kidney disease, end-stage renal disease treated with hemodialysis, neurodegenerative disease, Fabry disease, peripheral artery disease and other orphan diseases. Our actual results, events or developments could be materially different from those expressed or implied by these forward-looking statements. We can give no assurance that any of the events or expectations will occur or be realized. By their nature, forward-looking statements are subject to numerous assumptions and risk factors including those discussed in our Annual Information Form and most recent MD&A which are incorporated herein by reference and are available through SEDAR at www.sedar.com. The forward-looking statements contained in this news release are expressly qualified by this cautionary statement and are made as of the date hereof. The Company disclaims any intention and has no obligation or responsibility, except as required by law, to update or revise any forward-looking statements, whether as a result of new information, future events or otherwise.

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Resverlogix at a Glance



Snapshot

- Late-stage clinical biotechnology company that has built a leadership position in epigenetics
- Lead product candidate is Apabetalone, a first-inclass small molecule selective bromodomain extra-terminal (BET) protein inhibitor with broad applicability for cardiovascular, renal and other disease indications
- Fully enrolled Phase 3 trial for secondary prevention of MACE in patients with diabetes (type 2) and low HDL
- Attractive safety profile, with over 1,900 patients dosed and seven successful DSMB readouts in Phase 3

Profile

Listing	Toronto Stock Exchange: RVX
Market Cap	~C\$735m ² ~US\$550m ¹
Shares Outstanding	188.5m ²

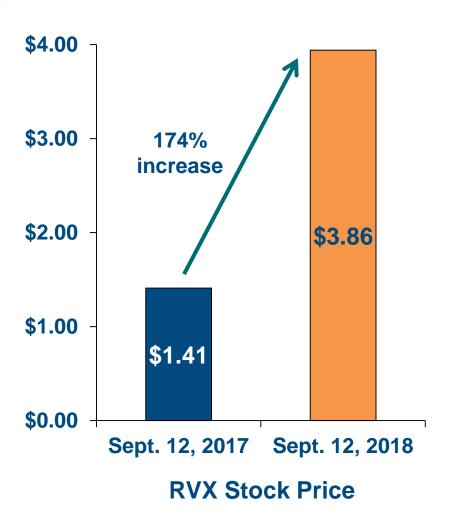
Note

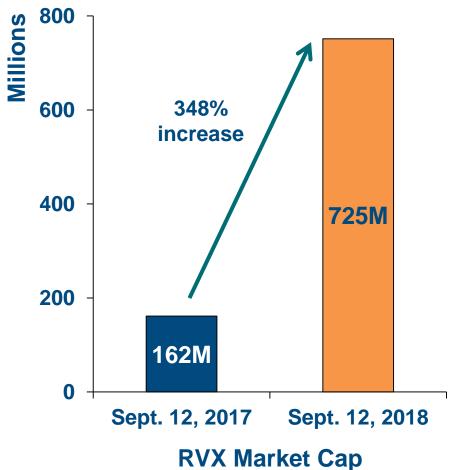
¹ Based on USD/CAD exchange rate of 1.30

² As of September 10, 2018

Stock Price and Market Cap (TSX)







Our Pipeline Plan



Apabetalone Indication	Pre-clinical	Phase 1	Phase 2	Phase 3	Status Est.
Acute Coronary Syndrome (ACS)					Initiation: 2015 Read-out: Q1 2019 (Top line data)
Chronic Kidney Disease					Initiation: Q1, 2019 Read-out: Q4, 2019
Fabry's disease					Initiation: Q4 2018 Read-out: Q4 2019
Pulmonary Arterial Hypertension					Initiation: Q3 2019 Read-out: Q2 2020
Vascular Cognitive Dementia					Initiation: Q2 2019 Read-out: Q2 2020

Investment Highlights



- Global leader in epigenetic research and drug development
- Apabetalone is a first-in-class BET inhibitor with potentially broad applicability across multiple disease indications
- Addresses critical unmet need with 12 million + patients in top 8 markets
- Lead program has completed enrollment of Phase 3 trial for high risk CVD patient population
- Well established safety profile to date, over 1,900 patients treated with apabetalone with no significant safety issues
- Proven track record of funding development while minimizing shareholder dilution
- 7 Robust intellectual property position patents extend to 2034

Addressing a Critical Unmet Need



Cardiovascular disease

Cardiovascular disease is still the number one killer of both males and females and costs the US healthcare system over \$500B per year

Current CVD Therapies

- Statins are the top medication used to treat CVD
- · Despite maximized use, current therapies only of CVD events

30% manage about 30% 60% 10%

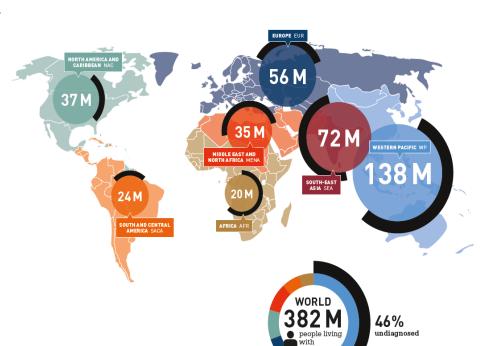
New LDL Modulators

Several new types of LDL modulators are in clinic. Leading are the very expensive PCSK9's

Opportunity

Huge market potential resides in the remaining 60% unmet need in CVD management

The Diabetes Epidemic

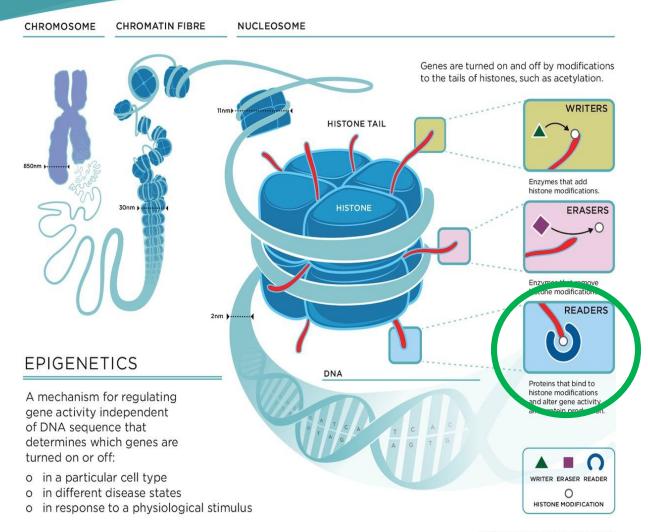


Diabetes prevalence; will increase by 55% in the next 30 years, with the Middle east region showing an increase of 96%.

IDF Diabetes Atlas | Sixth edition

Overview of Epigenetics





- The epigenetic code refers to modifications to chromatin components that regulate its activity
- Turning genes on or off is regulated by these modifications
- BET (Bromodomain and Extraterminal Domain) proteins recognize these modifications and turn genes on

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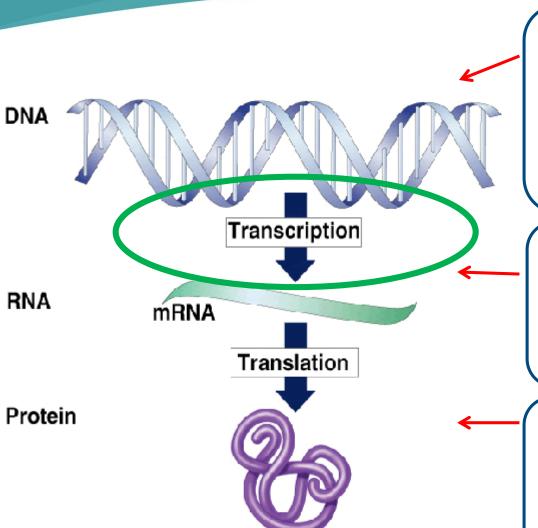
Our Differentiated BET Platform



- Resverlogix has discovered compounds that selectively bind the bromodomains of BET proteins
 - Bromodomain selectivity: Resverlogix's apabetalone selectively targets BD2
 - BET (BRD2, BRD3, BRD4) protein selectivity: Our expertise in medicinal chemistry and epigenetics allows us to identify small molecules that target one or a specified subset of BET proteins
- Our Phase 2 clinical program provided us with what was the only blood bank of BET inhibitor-treated patients in the world
 - In-depth analysis such as proteomics, genomics, and pathway analysis revealed advanced knowledge of BET activities
 - The resulting knowledge from these activities provided a level of sophistication around BET that surpasses that of many others working in this area
- The properties of Resverlogix's molecules avoid side effects seen with other BETi
 - BET programs in oncology can tolerate a high degree of side effects due to the nature of the disease being treated
 - Chronic conditions such as cardiovascular disease and renal impairment require treatments with a side-effect profile acceptable for long-term treatment

Unique Mechanism of Action





Genome Editing

The mechanism is based on cutting and pasting undesired/desired sequences into or out of the DNA, thereby altering the gene sequence and then re-introducing the modified DNA into the body.

CRISPR – gene editing within a cell sub population

Transcriptional Regulation

Mechanism is based on changing the levels of disease causing **proteins** by modulating their expression at the gene level

Apabetalone – reduces expression of disease mediators

Protein Targeting

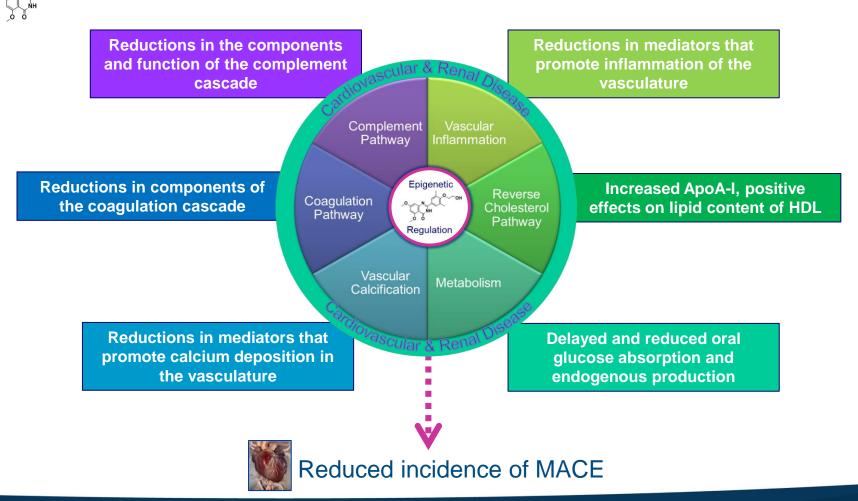
Focus on reducing or blocking the activity of **one** disease protein by using an inhibitor or antibody

Antibody or Inhibitor – blocks activity of one mediator of disease

BET Inhibition Impacts the Pathways that Drive Cardiovascular Disease and Kidney Diseases



Apabetalone, a bromodomain extra-terminal (BET) protein inhibitor, regulates the expression of genes and restores the function of pathways underlying the pathogenesis of CVD and kidney disease



Our First Three Initial Opportunities

Top 8 Markets (U.S., Top 5 EU, Japan & Canada)



Apabetalone is a first-in-class, small molecule that is a selective BET inhibitor that produces a specific set of biological effects with important benefits while maintaining a well described safety profile.

It is currently being evaluated for the following indications:



High Risk Acute Coronary Syndrome (ACS) Patients with a Type II Diabetes Mellitus (DM) Comorbidity and Low High-Density Lipoprotein Cholesterol (HDL-C)



1.9 M Patients by 2032



High Risk Chronic Kidney Disease (CKD) Patients (Stages 3-5, Pre-Dialysis) with a Diabetes Mellitus Comorbidity and a History of Cardiovascular Disease (CVD)



6.6 M Patients by 2032



Dementia and Mild Cognitive Impairment (MoCA score < 26) in Elderly (>65 years) Patients with Diabetes Mellitus Comorbidity and a History of CVD

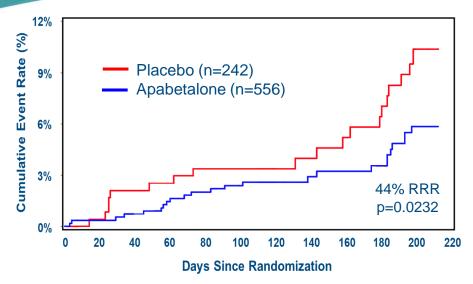


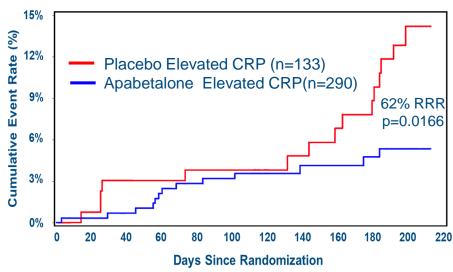
3.2 M Patients by 2032

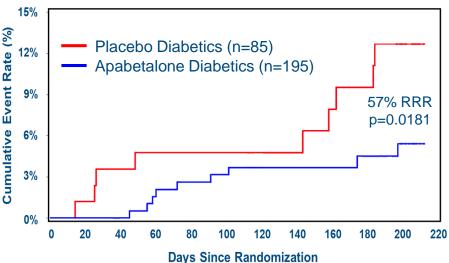
Critical Conclusions from our Phase 2 CVD Trials



(ASSURE and SUSTAIN) Nicholls et al. 2017 Am J Cardiovasc Drugs







MACE: <u>Major Adverse Cardiac Events including: death,</u> myocardial infarction, stroke, coronary revascularization, hospitalization for acute coronary syndrome or heart failure

Decrease in MACE was most profound in patients who had a higher level of inflammation such as patients with diabetes

BETonMACE Phase 3 Trial

Enrollment Complete; Readout in Early 2019





2,400 + subjects

- double blinded
- 1-2 week statin run-in



The study is an event-based trial and continues until 250 narrowly defined MACE events have occurred

Key inclusion criteria

- Type II Diabetes Mellitus
 - HbA1c > 6.5% or history of diabetes medications
- CAD event 7 days 90 days prior to screening
 - o Myocardial infarction (MI), unstable angina or percutaneous coronary intervention
- HDL < 1.04 for males and < 1.17 for females

BETonMACE Commenced November '15





Apabetalone has already been tested in over 1,900 patients in 18 countries around the world, 14 countries have already approved Phase 3 usage

Apabetalone Target Product Profile





High Risk Acute Coronary Syndrome (ACS) Patients with a Type II Diabetes Mellitus (DM) Comorbidity and Low High-Density Lipoprotein Cholesterol (HDL-C)

Phase 3 BETonMACE	Primary Efficacy Endpoints	 Time to the first occurrence of Major Adverse Cardiovascular Events (MACE) defined as: CVD death; non-fatal myocardial infarction (MI); non-fatal ischemic stroke Secondary endpoint includes: hospitalization for unstable angina, emergency revascularization procedures, and all-cause mortality
	Subgroups	 Assess potential improvement in kidney function, MACE, and renal serious adverse events (SAEs) (one time 40% or greater reduction in eGFR or doubling of serum creatinine) in population with baseline estimated GFR<60mL/min (stage 3+ CKD) Renal statistical analysis plan (SAP) in progress Assess potential cognitive improvement based on a MoCA (Montreal Cognitive Assessment) in patients older than 70 years of age. Cognition statistical analysis plan (SAP) in progress
	Expected Efficacy Outcomes	 30% relative risk reduction of MACE with statistical significance vs placebo with average treatment duration of 22- 24 months of treatment on top of current standard of care Significant or trending results in defined subgroups such as CKD and cognition
Uni	que Selling Points	 Novel mechanism of action with multi-factorial approach for the reduction of MACE in high risk ACS patients Orally available small molecule with low projected COGS and price compared to monoclonal antibodies and peptides Potential for alternate indications and increased accretive value based on subgroup analysis of BETonMACE, proteomic analyses of serum data from past Phase 2 trials, and early pre-clinical signals of genes associated with disease risk

Clinical Trial Analysis Points and Time Lines



- Maintain existing safety profile until trial completion, last dosing still expected in late 2018
- Adaptive trial options stop dosing at 230-235 events and wait for 250 events or stop at 250 events and probably accumulate 270+ events?
- Futility analysis vs. SSRA? Neither appear to offer any trial benefit at this point. Both cause a statistical penalty against final powering. For now we have chosen neither.
- Three point MACE event accumulation now stands around 200 with an occurrence rate of 10-15 per month
- 5 Adjudication of all 270 SAE MACE events will take two months post trial completion
- Top line data will be announced immediately upon adjudication completion. Key secondary end points will also be released if available Renal & Cognitive function
- Throughout 2019 full outcomes, pre-specified endpoint data, safety results, and clinical implications will be reported and published

Committee Members for BETonMACE



Clinical Advisory Board

Prof. Kausik K. Ray, BSc (hons), MBChB, MD, MPhil (Cantab), FACC, FAHA, FESC, FRCP; Chairman Imperial College

Dr. Gregory G. Schwartz, MD, PhD University of Colorado Denver

Dr. Stephen Nicholls, MBBS, PhD South Australian Health and Medical Research Institute

Dr. Henry N. Ginsberg, MD, FAHA Columbia University

Dr. Peter P. Toth, MD, PhD, FAAFP, FICA, FAHA, FNLA, FCCP, FACC

CGH Medical Center

Dr. Kamyar Kalantar-Zadeh, MD, MPH, PhD, FAAP, FACP, FASN, FAHA, FNKF
University of California Irvine

Recent High Profile Publications

RVX-208, a BET-inhibitor for treating atherosclerotic cardiovascular disease, raises ApoA-I/HDL and represses pathways that contribute to cardiovascular disease-Atherosclerosis 2016

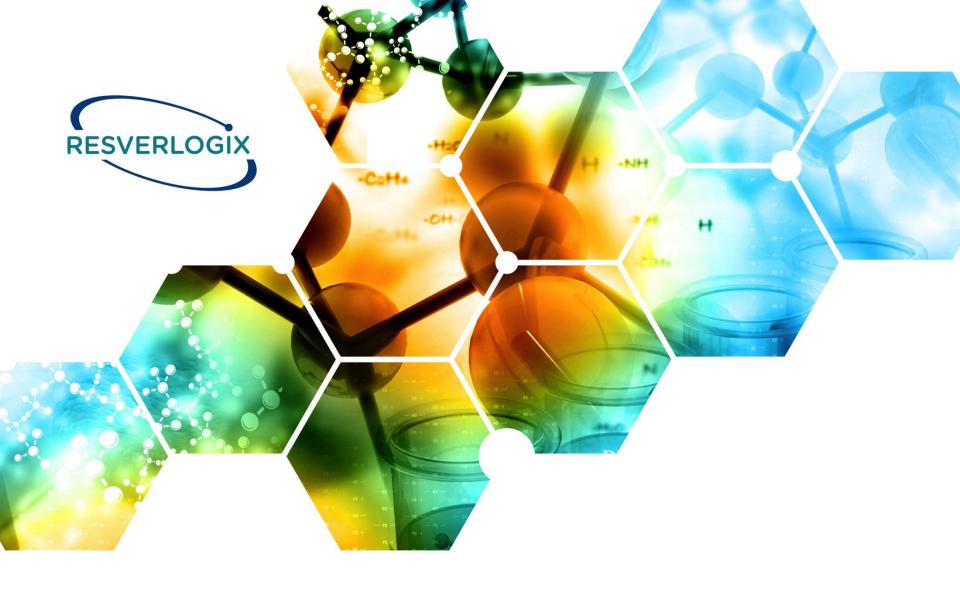
Data on gene and protein expression changes induced by apabetalone (RVX-208) in ex vivo treated human whole blood and primary hepatocytes- **Data in Brief 2016**

Downregulation of the Complement Cascade In Vitro, in Mice and in Patients with Cardiovascular Disease by the BET Protein Inhibitor Apabetalone (RVX-208)- **Journal of Cardiovascular Translational Research 2017**

Selective BET Protein Inhibition with Apabetalone and Cardiovascular Events: A Pooled Analysis of Trials in Patients with Coronary Artery Disease- American Journal of Cardiovascular Drugs 2017

Benefit of Apabetalone on Plasma Proteins in Renal Disease-KI Reports 2017

Apabetalone Mediated Epigenetic Modulation is Associated with Favorable Kidney Function and Alkaline Phosphatase Profile in Patients with Chronic Kidney Disease – **Kidney and Blood Pressure Research 2018**

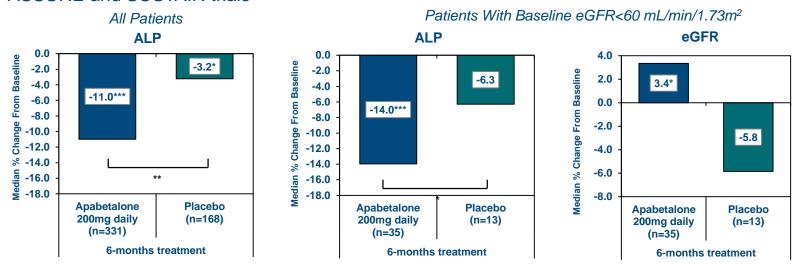


Chronic Kidney Disease Clinical Program
Overview

Rationale for Kidney Disease Phase 2b/3



 Apabetalone has demonstrated reductions in alkaline phosphatase (a strong marker of CKD risk) and improvements in eGFR in CKD patients (eGFR < 60 mL/min/1.73m²) with CVD in the phase 2 ASSURE and SUSTAIN trials



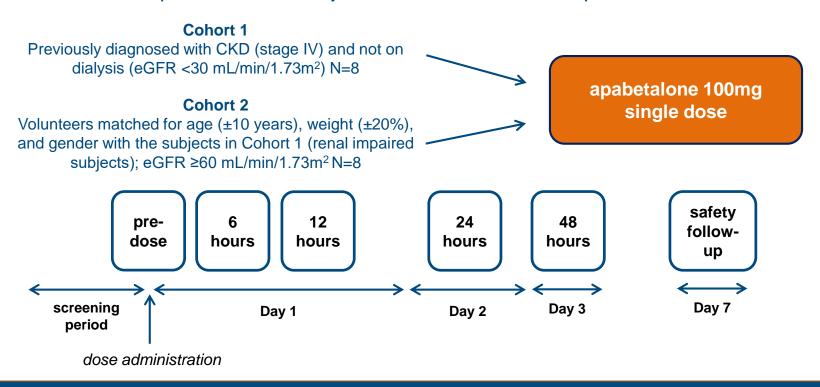
Data Presented in Keynote Address at the 2015 American Society of Nephrology Conference, San Diego

- Resverlogix believes that BET inhibition and apabetalone may have the potential to improve kidney function, as measured by eGFR, in patients suffering from various stages of kidney disease
- Resverlogix is currently investigating the potential for expansion into specific kidney indications:
 - CKD (Stages 3a and 3b) patients, with a history of CVD (Phase 3 BETonMACE subgroup)
 - High Risk CKD Patients on Dialysis (Phase 2b BETonRenal study)

Kidney Disease Phase I Study



A Phase I, Open-Label, Parallel Group Study to Evaluate the Safety and Pharmacokinetics of a Single Oral Dose of Apabetalone in Subjects with Severe Renal Impairment



Trial demonstrated that apabetalone has a highly differential effect on protein levels based on disease status, healthy vs sick, reducing a variety of plasma proteins and downregulating pathways activated in the CKD cohort

CKD Program - Phase 1 Data

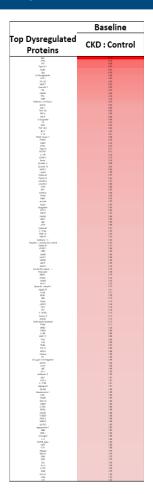
Effect of Apabetalone on Differentially Expressed Proteins



288 proteins were different between the plasma of CKD patients and matched controls (red indicates higher protein levels in CKD/control)

CKD = Subjects with stage 4 Chronic Kidney Disease

152 of the 288 differentially expressed proteins in the CKD patients were downregulated at 12 hours following one dose of apabetalone



100mg Dose Apabetalone

Blue = downregulated; white = no change; Red = upregulated

In CKD patients, one dose of apabetalone reduced CKD and CVD biomarkers that were dysregulated at baseline



SOMAscan® Analysis of Plasma Proteome – Phase 1 Trial



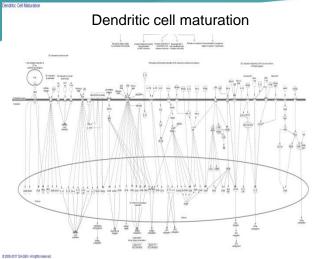
Anahatalo	na Raducas	CVD and	CKD	Biomarkers
Apabelaic	THE INCUDES	CVD and	CILD	DiditialKels

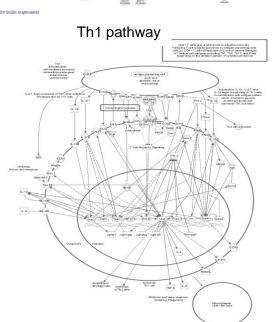
	Protein Name	Gene Symbol	Subjects with CKD (stage IV) (n=8) treated with 100 mg Apabetalone		Matched Control Subjects (n=8) treated with 100 mg Apabetalone	
			% ∆ from baseline at 12h	p-value	% ∆ from baseline at 12h	p-value
	Interleukin-6	IL6		0.05	NS	
	Interleukin-1 alpha	IL1A		0.01	NS	
Inflammation	Interferon gamma	IFNG		0.04	NS	
	TNF receptor superfamily member 1A	TNFRSF1A		0.05	NS	
	C-reactive protein	CRP		0.04	NS	
\	Tumor necrosis factor	TNF		0.02	NS	
/	P-selectin	SELP		0.04	NS	
Cell Adhesion	E-selectin	SELE		0.01		0.02
\	Intercellular adhesion molecule 1	ICAM1		0.05		0.04
	Vascular cell adhesion protein 1	VCAM1		0.01	NS	
Matrix	Fibronectin	FN1		0.02	NS	
Remodeling Calcification	Stromelysin-1	MMP3		0.02	NS	
Valorioation	Stromelysin-2	MMP10		0.02	NS	
	Osteopontin	SPP1		0.01		0.04
	Plasminogen activator inhibitor 1	SERPINE1		0.04	NS	
Thereselves	Tissue-type plasminogen activator	PLAT		0.01	NS	
Thrombosis	Urokinase-type plasminogen activator	PLAU		0.01	NS	
\	D-dimer	FGA/B/C		0.05	NS	
	Urokinase plasminogen activator surface receptor	PLAUR		0.02	NS	

Apabetalone reduces markers of inflammation, cell adhesion, matrix remodeling, calcification and thrombosis in the CKD cohort after one dose and 12 hours

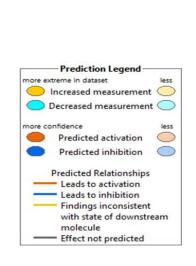
SOMAscan® Analysis of Plasma Proteome in CKD PatientsIPA Canonical Pathways

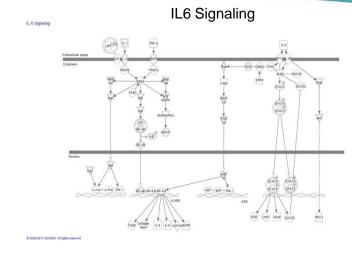






TSX: RVX

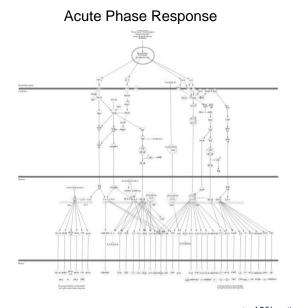




NF-kB Signaling

Output

Outpu

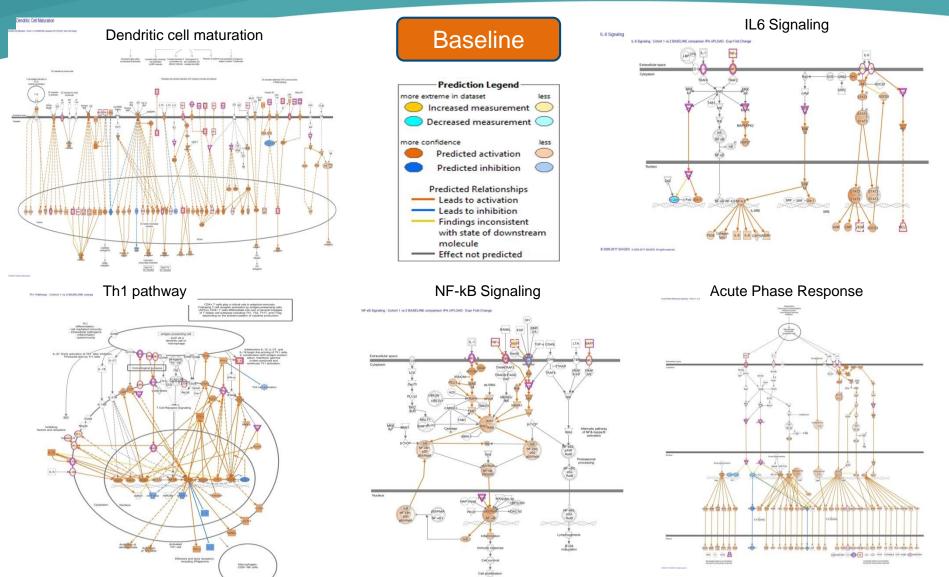


Wasiak et al., 2017

∆>10% p≤0.05

SOMAscan® Analysis of Plasma Proteome in CKD Patients IPA Canonical Pathways: Top 5 Pathways Upregulated at Baseline





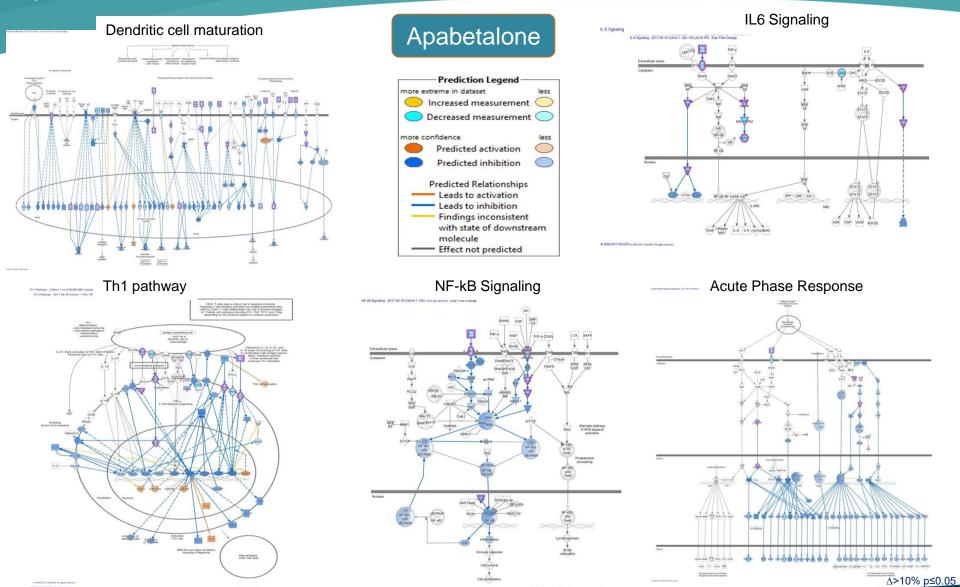
∆>10% p≤0.05

TSX: RVX

Wasiak et al., 2017

SOMAscan® Analysis of Plasma Proteome in CKD Patients IPA Canonical Pathways: Top 5 Pathways Downregulated with Apabetalone





Wasiak et al., 2017

Apabetalone Target Product Profile





High Risk Chronic Kidney Disease (CKD) Patients (Stages 3-5, Pre-Dialysis) with a Diabetes Mellitus Comorbidity and a History of Cardiovascular Disease (CVD)

Phase 3 BETonCKD	Primary Efficacy Endpoints	 Progression to end stage renal disease, defined as the need for maintenance dialysis for 12 weeks or more or kidney transplantation Time to the first occurrence of Major Adverse Cardiovascular Events (MACE) defined as: CVD death; non-fatal myocardial infarction (MI); non-fatal ischemic stroke
	Secondary Efficacy Endpoints	 Hemoglobin (Hb) change and response from baseline Evaluate changes in alkaline phosphatase over time and between treatment groups including isoforms Evaluate transcription (mRNA) change in whole blood Evaluate changes in inflammation variables including hsCRP, fibrinogen, and haptoglobin within and between treatment groups
	Expected Efficacy Outcomes	 Maintain glomerular filtration rate of treated group vs placebo at a statistically significant level 25% relative risk reduction with statistical significance vs placebo with 18 months of treatment on top of current standard of care
Uni	ique Selling Points	 Novel mechanism of action with multi-factorial approach for the reduction of MACE in high risk CVD patients, and for the delayed and/or improvement of renal function in CKD patients Orally available small molecule with low projected COGS and price compared to monoclonal antibodies and peptides Potential for alternate indications and increased accretive value based on subgroup analysis of BETonMACE, proteomic analyses of serum data from past Phase 2 trials, and early pre-clinical signals of genes associated with disease risk

Kidney Disease Program Clinical Advisory Board RESVERLOGIX





Dr. Kamyar Kalantar-Zadeh Chair UC Irvine Chief Nephrology



Prof. Vincent Brandenburg Member University Hospital RWTH Aachen



Dr. Carmine Zoccali Member University Pisa



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Dr. Srinivasan Beddhu Member University of Utah



Dr. Mathias Haarhaus Member Karolinska University Hospital

Investment Highlights



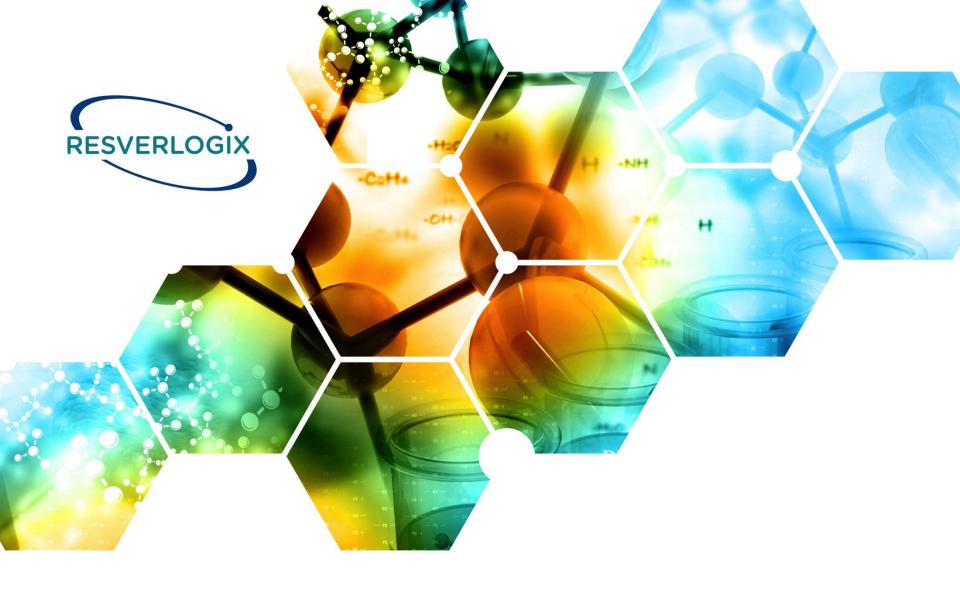
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- Addresses critical unmet need with 12 million + patients in top 8 markets
- Lead program has completed enrollment of Phase 3 trial for high risk CVD patient population
- Well established safety profile to date, over 1,900 patients treated with apabetalone with no significant safety issues
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- 7 Robust intellectual property position patents extend to 2034



Resverlogix Corp. AGM Corporate Update

September 12, 2018

Calgary, Alberta

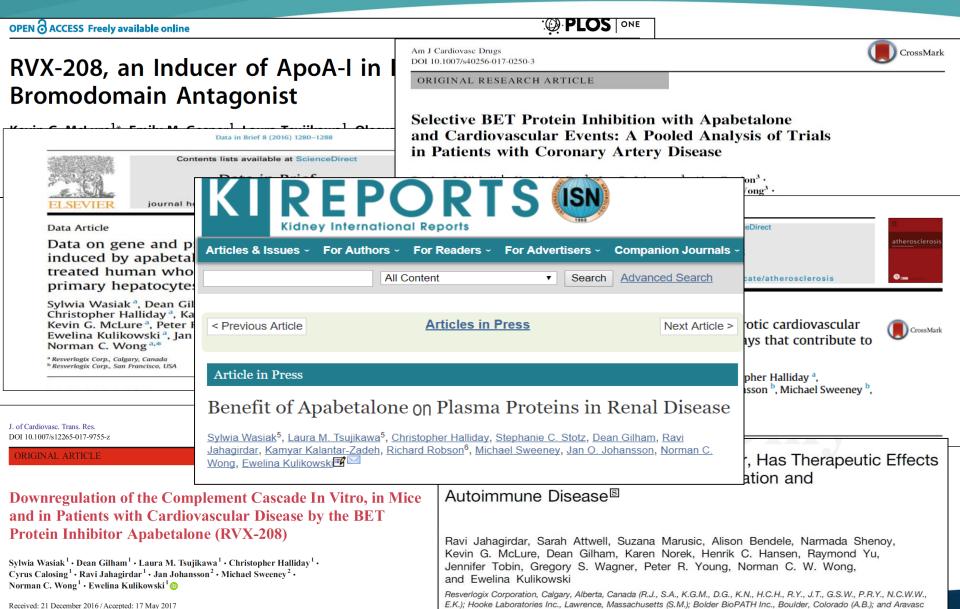


Appendix

BET Literature Impact Growing CVD and Renal Risk

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Inc., Sunnyvale, California (N.S.)

BET Inhibition and HIV-1



- Recent high profile publications illustrate apabetalone-induced activation of latent HIV-1 in vitro and ex vivo
- Suggest that apabetalone synergistically reactivated latent HIV-1 and could combine with cART drugs to inhibit viral infection

Acta Pharmacologica Sinica

www.nature.com/aps



ARTICLE

The BET bromodomain inhibitor apabetalone induces apoptosis of latent HIV-1 reservoir cells following viral reactivation

Xuan-xuan Zhang¹, Jian Lin¹, Tai-zhen Liang¹, Heng Duan², Xing-hua Tan³, Bao-min Xi¹, Lin Li¹ and Shu-wen Liu¹



OPEN BET inhibitors RVX-208 and PFI-1 reactivate HIV-1 from latency

> Panpan Lu¹, Yinzhong Shen², He Yang¹, Yanan Wang¹, Zhengtao Jiang¹, Xinyi Yang¹, Yangcheng Zhong¹, Hanyu Pan¹, Jianging Xu², Hongzhou Lu² & Huanzhang Zhu¹

Additional Indications



- Paroxysmal nocturnal hemoglobinuria orphan indication
- Neurofibromatosis Malignant Peripheral Nerve Sheath Tumors (MPNST) orphan indication
- Pulmonary Arterial Hypertension: orphan indication
- Muscular Dystrophy/Facio Scapulo Humeral Dystrophy: orphan indication
- Fabray's Disease: orphan indication
- Neuroinflammation
- HIV eradication