



Epigenetics & BET Inhibition Corporate Update

BioPharm America
Boston, MA - September 26, 2017

TSX: RVX

Forward Looking Statements



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Outline



1. Executive Summary & Background
2. Commercial Market Assessment: Planned Indications
3. BETonMACE Clinical Update
4. KOL Outreach / Commercial Opportunity
5. Clinical Steering Committees
6. Summary



Executive Background

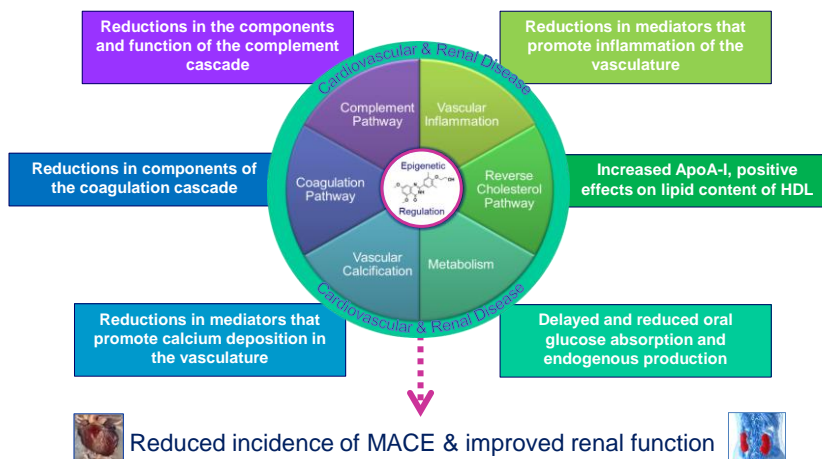


- Objective of today's presentation is to provide high level commercial assumptions, scientific and clinical data, and primary market research that provide near future rationale for **\$50–\$150 Billion lifetime revenue opportunity for apabetalone**
- Apabetalone is a **first and only in class BET inhibitor with patent life until 2034. High scarcity value with no competitors**
- Global market: four **planned indications**
 - Reducing MACE in ACS diabetes, patients
 - Reducing MACE in CKD patients with CVD risk profile & improvement in renal function
 - Reducing MACE and renal risk in dialysis patients
 - Improving cognition in elderly CVD/Diabetes patients

- The multifactorial basis underlying high risk CVD in diabetes and CKD is driven by a wide range of cellular responses including, vascular inflammation and calcification
- BET proteins, a major component of epigenetics, regulate these responses which drive CVD risk
- BET inhibition with apabetalone has been shown to represent a novel approach in the reduction of CVD risk and improved renal function on top of standard of care medicines

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

Apabetalone, a bromodomain extra-terminal (BET) protein inhibitor, inhibits BRD4, thereby regulating the expression of genes and restoring the function of pathways underlying the pathogenesis of CVD and kidney disease

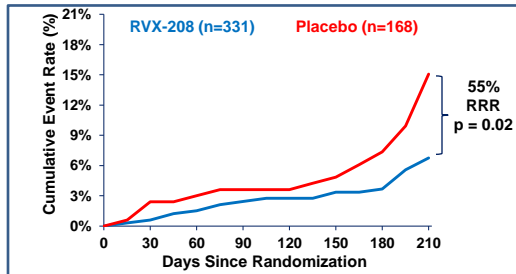


Apabetalone Reduces Incidence of MACE



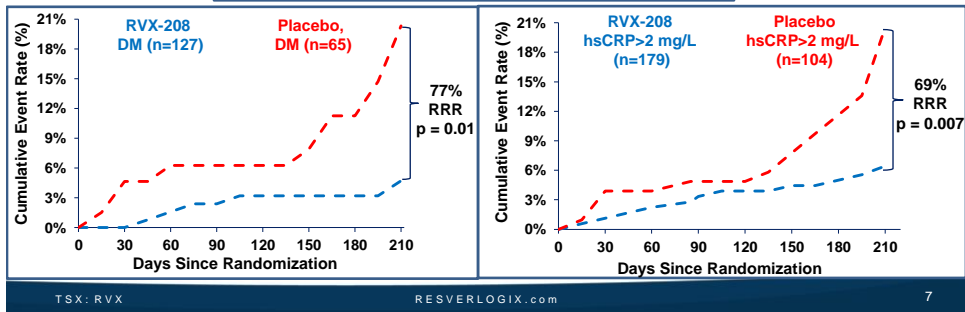
ASSURE and SUSTAIN Studies

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



Note: Patients were censored at 30 days after the last dose of study medication. Log-Rank test for between group comparison

Source: Johannsson et al. *European Heart Journal* (2014); 35 (Abstract Supplement)
Puri et al. *J Am Coll Cardiol.* (2014); 63(12_S)



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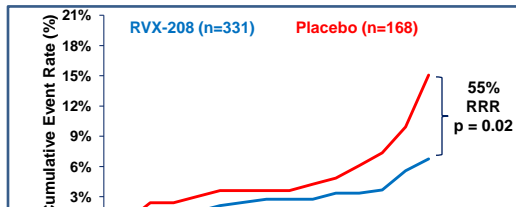
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Apabetalone Reduces Incidence of MACE



ASSURE and SUSTAIN Studies

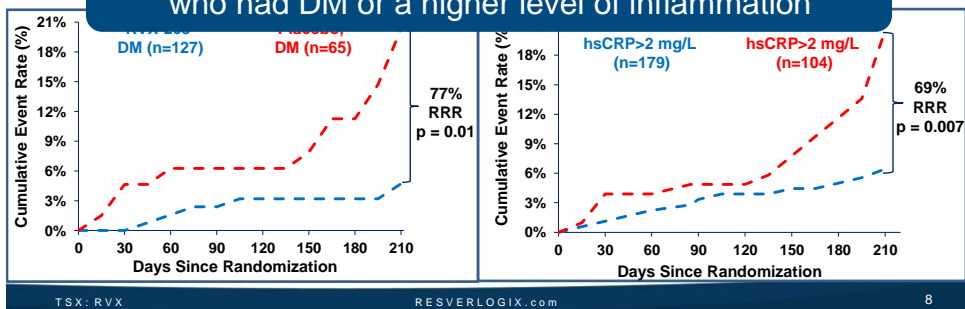
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Decrease in MACE was most profound in patients who had DM or a higher level of inflammation



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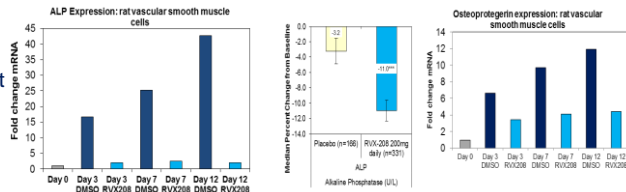
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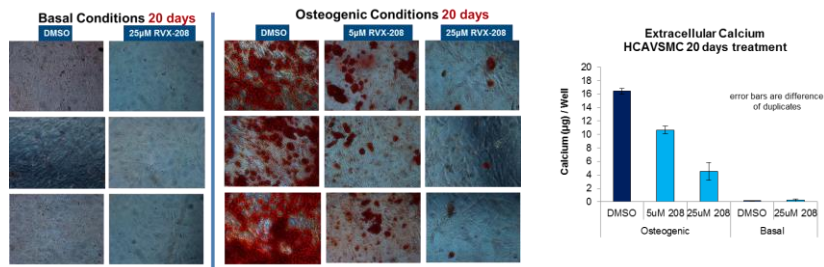
Kidney Disease: Vascular Calcification



- Apabetalone treatment reduces expression of numerous proteins involved in vascular calcification in rat and human VSMCs in calcifying and osteogenic conditions, and in CVD patients



- Apabetalone reduces calcium deposition in human VSMCs grown in osteogenic conditions



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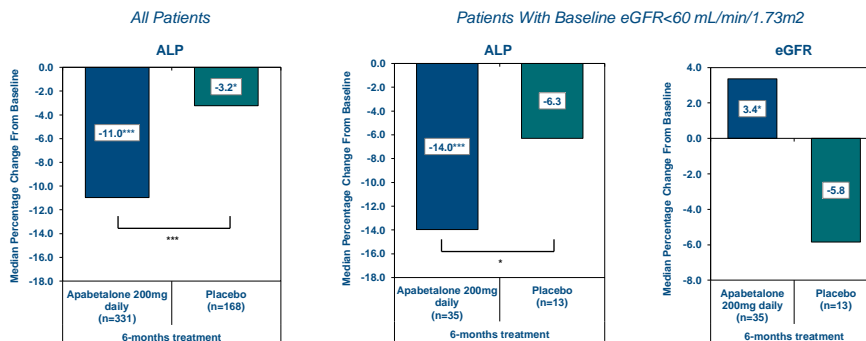
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Kidney Disease: Reductions in ALP and Improvement in eGFR



- 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.



Wilcoxon signed-rank test for change vs. baseline and 2-sided Van Elteren test stratified by study for percent change in baseline vs. placebo * p<0.05; ** p<0.01; *** p<0.001

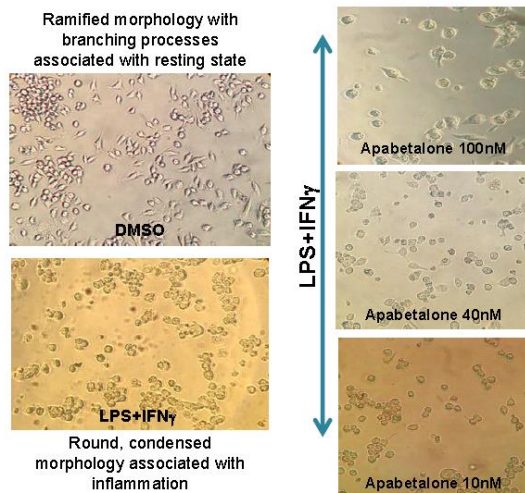
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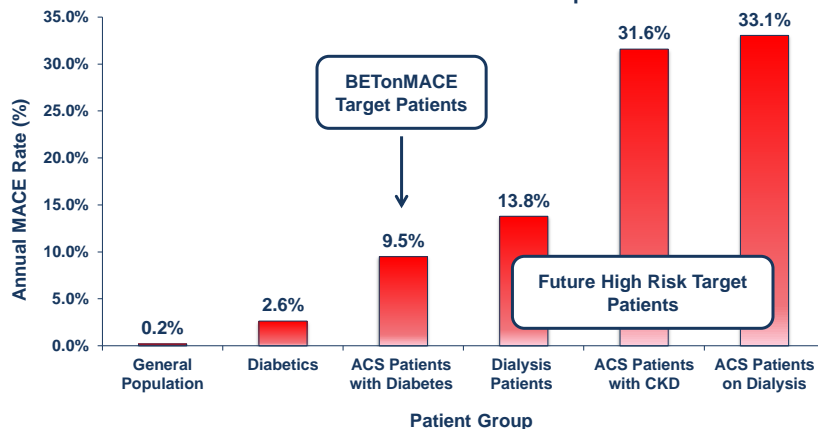
Reversal of activated morphology by apabetalone

- Apabetalone reverses the inflammatory morphology acquired by stimulated microglia, consistent with suppression of the inflammatory response.
- Apabetalone promotes survival of microglia versus a comparator molecule.
- BET inhibition is a promising therapy that modulates multiple processes contributing to neurodegenerative disease.



Targeted Patient Enrichment Strategy

Relative Annual Major Adverse Cardiac Event (MACE) Rates
In Various Patient Groups



Sources: Calculated from CDC Heart Disease Facts; Holden, SE, et al. 2015; White, WB, et al. 2013; Kim, H, et al. 2015; Cardarelli, F, et al. 2008; Okada, T, et al. 2008

Targeting Market High Risk Vascular Patient Groups Top Seven Markets



Phase 3: ACS with diabetes / low HDL – Peak Market 2,400,000



Phase 3 Sub Group: CKD pre-dialysis – Peak Market 5,500,000



Phase 2 Dialysis – Target Patient Market - Peak Market 1,200,000



Phase 3 Sub Group Dementia/MCI Diabetics – Peak Market 2,800,000



Phase 2 Rare/Orphan FSHD/IgA Nephro/PSKD – Peak Market 500,000+

Total Target High Risk Market opportunity: 12++ Million patients top 7 markets

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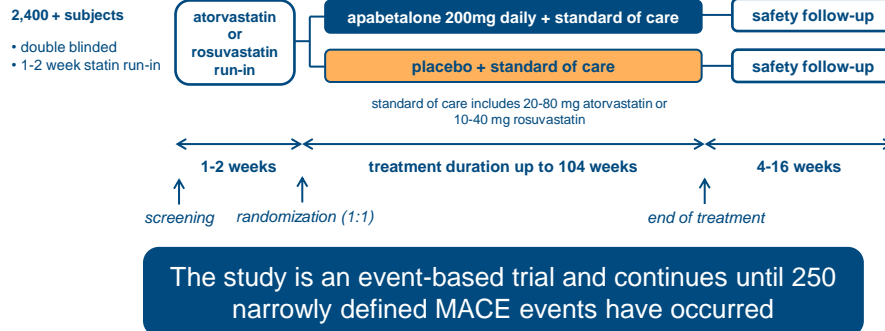
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BETonMACE Clinical Update

BETonMACE CV Outcomes Study Design



BETonMACE CV Outcomes Study Design



Primary Objective

To evaluate if treatment with apabetalone as compared to placebo increases time to the first occurrence of triple MACE. Triple MACE is defined as a single composite endpoint of: 1) CV death or 2) non-fatal MI or 3) stroke.

Key inclusion criteria

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

Primary Endpoint

Time from randomization to the first occurrence of adjudication-confirmed triple MACE defined as a single composite endpoint of: 1) CV Death or 2) Non-fatal MI or 3) Stroke.

Secondary Endpoint

Time from randomization to the first occurrence of adjudication-confirmed MACE including revascularization and unstable angina
Changes in apoA-I, apoB, LDL-C, HDL-C, and TG
Changes in HbA1c, fasting glucose, and fasting insulin
Changes in ALP and eGFR

Exploratory Endpoint

MoCA in elderly patient 70 and over with focus on MoCA below 26

- **Pre-specified subgroup analyses for primary endpoint include:**
 - rosuvastatin/atorvastatin
 - ≤ 30 days/ > 30 days post-acute coronary syndrome
 - LDL/HDL/TG's above and below median
 - HbA1c above and below median
 - eGFR ≥ 60 mL/min and < 60 mL/min
 - Also change in eGFR for all patients with eGFR < 60 mL/min
- **Planned exploratory subgroup analyses:**
 - Heart failure Stage 1-2
 - Cognition MoCA Score: Patients > 70 years of age (MoCA < 26)
 - Total all cause mortality
- **$> 1,800$ patients dosed to date with 4 DSMB safety reviews and approvals**



Commercial Opportunity: KOL Outreach, Clinical Expansion

Historic Pipeline Value for CVD Risk Reduction Assets



- Deutsche Bank estimates CVD Residual Risk Market worth **\$90B**
- Previous pipeline values attributed to Phase 3 residual risk assets
 - **\$13B Pipeline Value** for Torcetrapib (2006) Failed mid Phase 3
 - **\$8B Pipeline Value** for Dalcetrapib (2012) Failed mid Phase 3
 - **\$10B Pipeline Value** for Darapadib (2014) Failed Phase 3
 - **\$8B Pipeline Value** for Evacetrapib (2015) Failed Phase 3
 - **\$??B Value for Apabetalone (2018-2020) Multiple Phase 3 readouts**

Deutsche Bank
Markets Research

Global

Health Care
Pharmaceuticals

Industry
**Cardiovascular
Disease**

Date
29 February 2012

Industry Update

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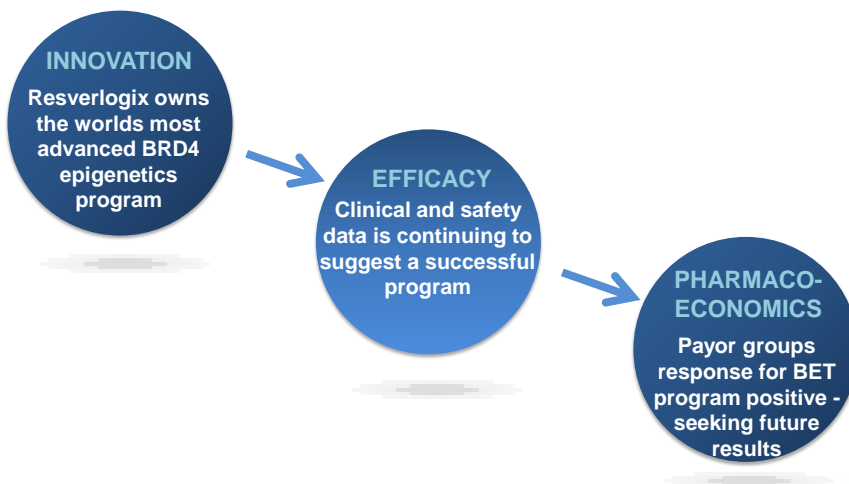
CV pipeline drugs: improving outcomes or reducing returns?

Sources: Lehman Brothers - PharmaPipelines. 2007; Deutsche Bank - Cardiovascular Disease Industry Update. 2012

Apabetalone: Balanced for Success



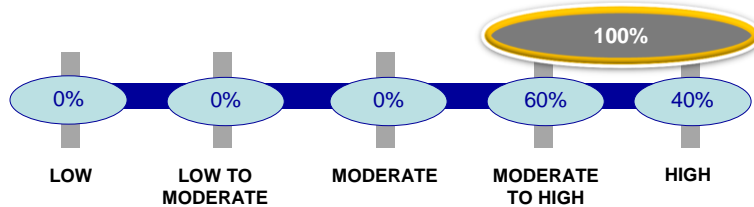
THREE CRITICAL DEVELOPMENT SUCCESS FACTORS IN PLACE



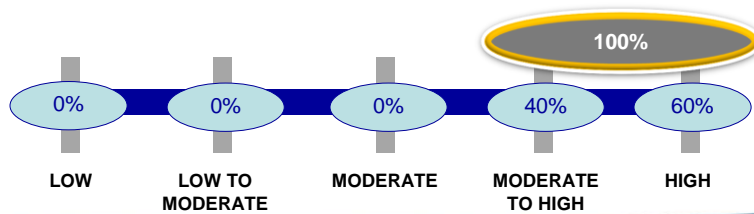
Commercial Metrics: Payer Analysis



Unmet medical need in reducing MACE in patients with recent ACS and T2DM



Unmet medical need in reducing MACE in patients with recent ACS and CKD



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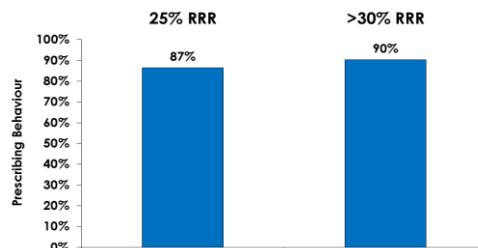
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Commercial Metrics: Prescribing Behaviour: SERMO™ Survey Findings



- Based on responses from 1,920 primary care physicians (n=625), cardiologists (n=550), endocrinologists (n=420) and nephrologists (n=325)

If select BET inhibition in a large phase III prospective setting illustrates significant relative risk reduction of MACE, on top of standard of care, in diabetes patients with low HDL and an ACS co-morbidity, what would your level of interest be in prescribing this drug for the following risk reductions?



Expanded Global SERMO Market Outreach Program Underway

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Commercial Metrics: Payer KOL Outreach Pricing Band Analysis



Organization	Lives Covered	MACE Reduction: Unmet need in Recent ACS and T2DM patients	MACE Reduction: Unmet need in CKD patients	ICER Threshold per annum
Payer 1	55 M	Moderate to High	Moderate to High	\$ < 100,000
Payer 2	65 M	Moderate to High	Moderate to High	\$ < 200,000
Payer 3	37 M	Moderate to High	Moderate to High	\$ < 100,000
Payer 4	40 M	Moderate to High	Moderate to High	\$ < 150,000
Payer 5	11 M	Moderate to High	Moderate to High	\$ < 150,000

- 5 Payers - **208 million** lives covered, Key C Suite executives contacts – President, Chief Medical Directors, COO, Executive VP Pharmacy
- Pricing bands support average ICER Target Threshold range of approximately **\$140,000 -175,000 USD**
- Pricing bands support average price of **\$6,000 - \$12,000** based on new enriched high risk patients

Commercial Metrics: ICER Analysis



Class	Trial	Patient Group	Size	Primary Endpoint	Primary MACE Reduction (RRR)	Annual No. Needed to Treat (NNT)	Annual Price (NHS - Europe Price) (\$ USD)		ICER
Anti-Interleukin-1β Inhibitor	CANTOS	History of MI	10,061	nonfatal MI, nonfatal stroke, or cardiovascular death	50 mg = 7% (n.s.)	673	orphan drug price ~\$69,000 per year discounted \$10K per year	10,000	6,727,273
	Canakinumab				150 mg = 15% (p = 0.021)				
PCSK9 Inhibitors LDL Lowering	FOURIER Evolocumab	Athero CVD High CV risk	27,564	cardiovascular death, MI, stroke, hospitalization for unstable angina, or coronary revascularization	15% (p< 0.001)	147	wholesale price	5,840	856,460
	ODYSSEY LONG TERM Aliroucumab	Heterozygous FH or with established CHD	2,341	death from coronary heart disease, nonfatal MI, fatal or nonfatal ischemic stroke, or UA requiring hospital	Post-Hoc Analysis on ODYSSEY OUTCOMES trial CV endpoint 48% (p = 0.02)	99	wholesale price	5,767	569,669
BET Inhibition	BETonMACE Apabetalone	recent ACS with T2DM and low HDL	2400	CV death, MI, or stroke	>25%	57	> 25% RRR	2,940	168,000
					>30%	48	> 30% RRR	3,360	160,000
					>35%	41	> 35% RRR	4,580	165,286
					>40%	36	>40% RRR	5,200	170,000

Apabetalone High Risk Vascular Expansion Plan



- BETonMACE contains specific patient subgroups that will provide insights into future indications to expand into
 - CKD patients (eGFR \geq 60 mL/min and $<$ 60 mL/min)
 - Cognition (MoCA score $<$ 26): Patients $>$ 70 years of age
- With respect to CKD patients (stages 3+), there has been an early signal from pooled Phase 2 studies (ASSURE & SUSTAIN) showing improvements in eGFR
- Therefore, positive subgroup readouts from BETonMACE would provide strong rationale for the commencement of Phase-3 CKD trials

World Leading Committee Members



CVD/Diabetes



Prof. Kausik K. Ray
Chair
Imperial College, London



Dr. Gregory G. Schwartz
Member
VA-Denver



Dr. Stephen Nicholls
Member
SAHMRI, Adelaide



Dr. Henry N. Ginsberg
Member
Columbia University



Dr. Peter P. Toth
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University of Illinois



Dr. Kamyar Kalantar-Zadeh
Member
Chair Nephrology UC Irvine



Dr. Kamyar Kalantar-Zadeh
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University Pisa



Dr. Marcello Tonelli
Member
University of Calgary Chair Medical Research



Dr. Srinivasan Beddhu
Member
University of Utah

Summary Highlights



Late Stage Trial	RVX is a phase 3 (BETonMACE) company focused on significant unmet need in high-risk CVD, diabetes and CKD patient populations.
Strong R&D	BET responsive activities including directional changes towards normalization of perturbed vascular inflammation, vascular calcification, complement and coagulation.
Market Leader Targeting Unmet Need	Apabetalone has potential in several high-risk unmet need patient groups totaling over 10MM patients in the top seven markets (US, 5EU and Japan).
Established Safety Profile	To date, over 1,800 patients have been treated with apabetalone with no significant safety issues. Four approved DSMB approvals to continue trial as is
Novel Mechanism of Action	First in class, only in class . Regulation of gene transcription and disease causing genes, unlike Crisper approach of changing DNA.
Strong Reimbursement Value	Robust Value Proposition Agreed by leading Payer groups