



Rev Therapeutics

Reducing the risk of acute
kidney injury

December 2025

Investment opportunity to advance or license KREV-202, a small molecule JNK inhibitor in development to treat cardiac surgery-associated acute kidney injury

Experienced team with extensive development and clinical experience

Business Development, Finance, Operations

Clinical and Reg. Affairs

Nonclinical Development and Toxicology

CMC and Operations



David Webb, Ph.D.
Chairman

Former VP of Research, Celgene
Synbal, Agragene, Syrrx, Cadus, OSI Pharma, Syntex, Roche
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Managing Director, Silicon Valley Bank
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Former VP Nonclinical Development, Kinnate Biopharma, Snr. Director, Preclinical Safety, Xeris, Novartis
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KINNATE
BIOPHARMA



Yoshi Satoh, Ph.D.
CSO

Former medicinal chemist, 5 clinical compounds at Novartis and Celgene
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NOVARTIS

Co-developed FDA-approved products include: Erlotinib (Tarceva®), Alogliptin (Nesina®), Apremilast (Otezla®), Temozolomide (Temodal®), Anti-thymocyte Globulin (Thymoglobulin®), Mycophenolate mofetil (CellCept®), Cyclosporine (SangCYA®), Celsior® (510k device), Cysteamine bitartrate (PROCYSBI®), Pomalidomide (Pomalyst®), Ezetimibe (Zetia®), Rifaximin (Xifaxan®), Cabozantinib (Cabometyx®), Cobimetinib (Cotellic®), Tafenoquine, Asciminib (Scemblix®), Tecovirimat, Gvoke

* Consultant

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Opportunity summary

Large \$1B - \$2B market	We are currently developing KREV-202, a patent protected ⁽¹⁾ prodrug of CC-930 (tanzisertib) ⁽²⁾ to prophylactically treat cardiac surgery-associated acute kidney injury (CSA – AKI), a large unmet medical need
De-risked asset	CC-930 was tested in multiple clinical studies, including a 56-week Ph. 2 study treating patients with IPF (NCT 01203943) and was well tolerated during the initial 4-week double blind ascending dose phase with largely no reduction in FVC through 32 weeks, in contrast to reduction seen with some approved IPF drugs ⁽³⁾
Compelling preclinical data	Preclinical <i>in-vivo</i> animal data using KREV-202 corroborates the renal protective capabilities of CC-930 shown in prior kidney ischemia / reperfusion injury animal preclinical models
Experienced team	Capital efficient virtual business model supported by team members with decades of drug development and renal disease experience; team members co-developed 17 approved drugs and collaborated on 100+ IND filings

¹ US national phase application filed; EU national phase pending submission

² JNK inhibitor developed by Celgene that is no longer being developed based on confirmation from BMS (acquired Celgene in 2019)

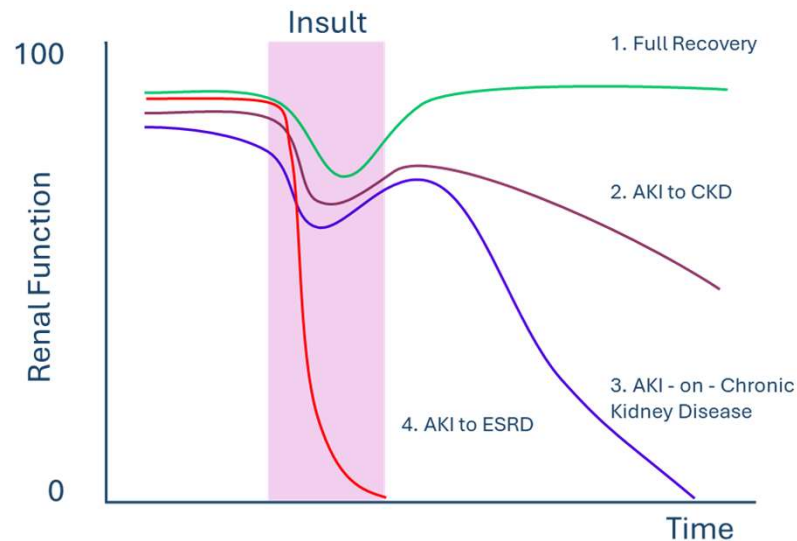
³ van der Velden et al., (2016), JNK inhibition reduces lung remodeling and pulmonary fibrotic systemic markers. Clin Trans Med, 5: e36. <https://doi.org/10.1186/s40169-016-0117-2>

IV treatment of acute indication and unmet need

Cardiac surgery-associated acute kidney injury (CSA-AKI) is a common complication of coronary artery bypass graft (CABG) surgery which can progress to chronic kidney disease and end stage renal disease

270,000+

Est. # of CABG procedures performed annually in U.S.



10% - 30%

Incidence rate of CSA-AKI per CABG procedure

2% - 5%

Patients diagnosed with CSA- AKI require renal replacement therapy

The impact on lives and healthcare system costs

CSA-AKI is associated with poorer outcomes for patients as well as increased costs for healthcare payors

Increased Mortality

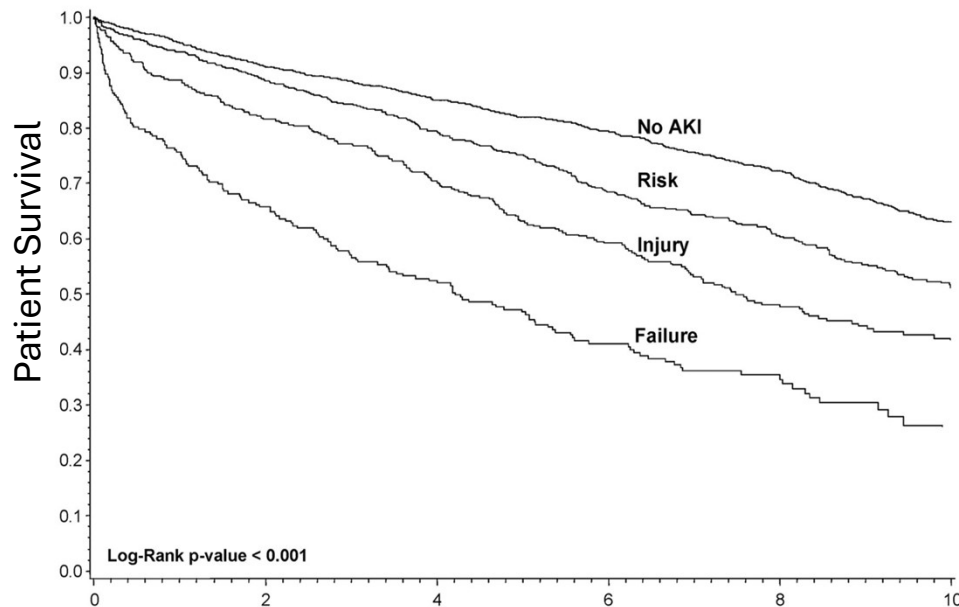
Post CABG survival rates are significantly impacted by severity of AKI diagnosis

2x Cost

Index hospitalization costs for those with AKI (\$77.1k vs. \$38.8k)

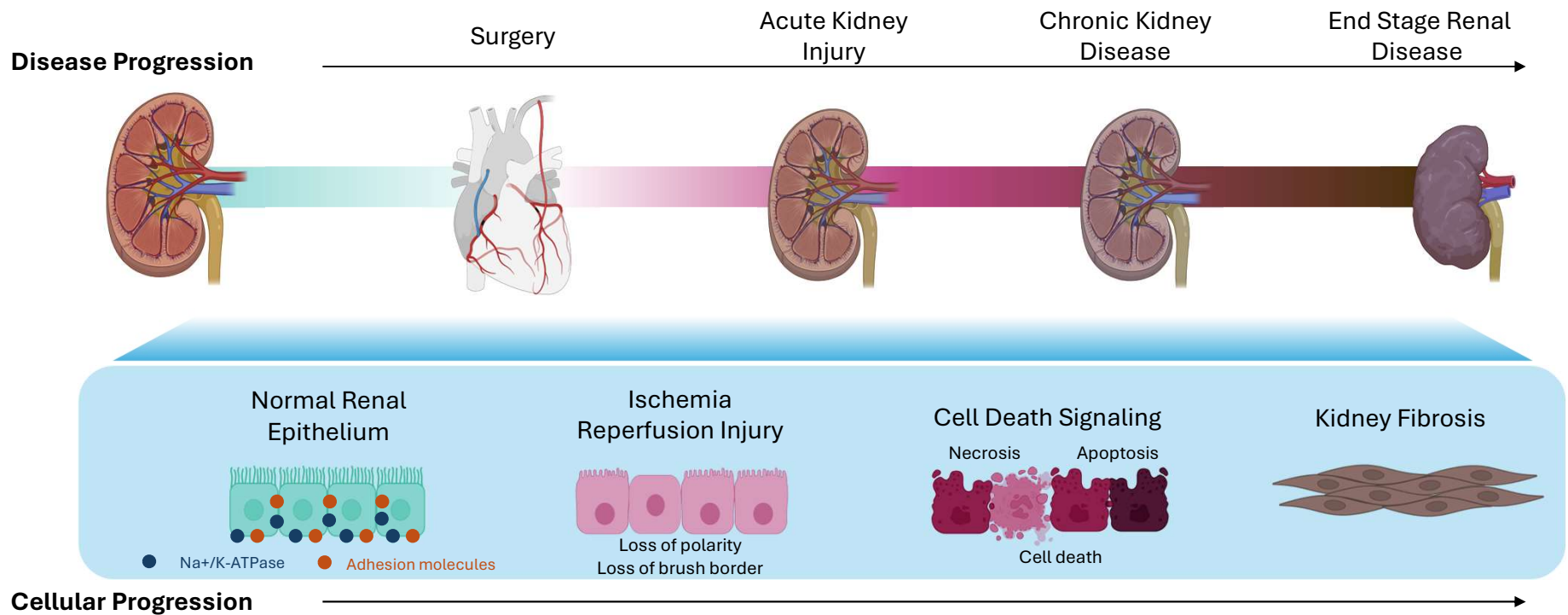
\$1.0B

Est. total incremental hospitalization costs associated with incidence of AKI



The underlying cause of the problem

Ischemia and reperfusion injury progresses to renal proximal tubular epithelial (RPTe) cell death, kidney dysfunction, and fibrosis



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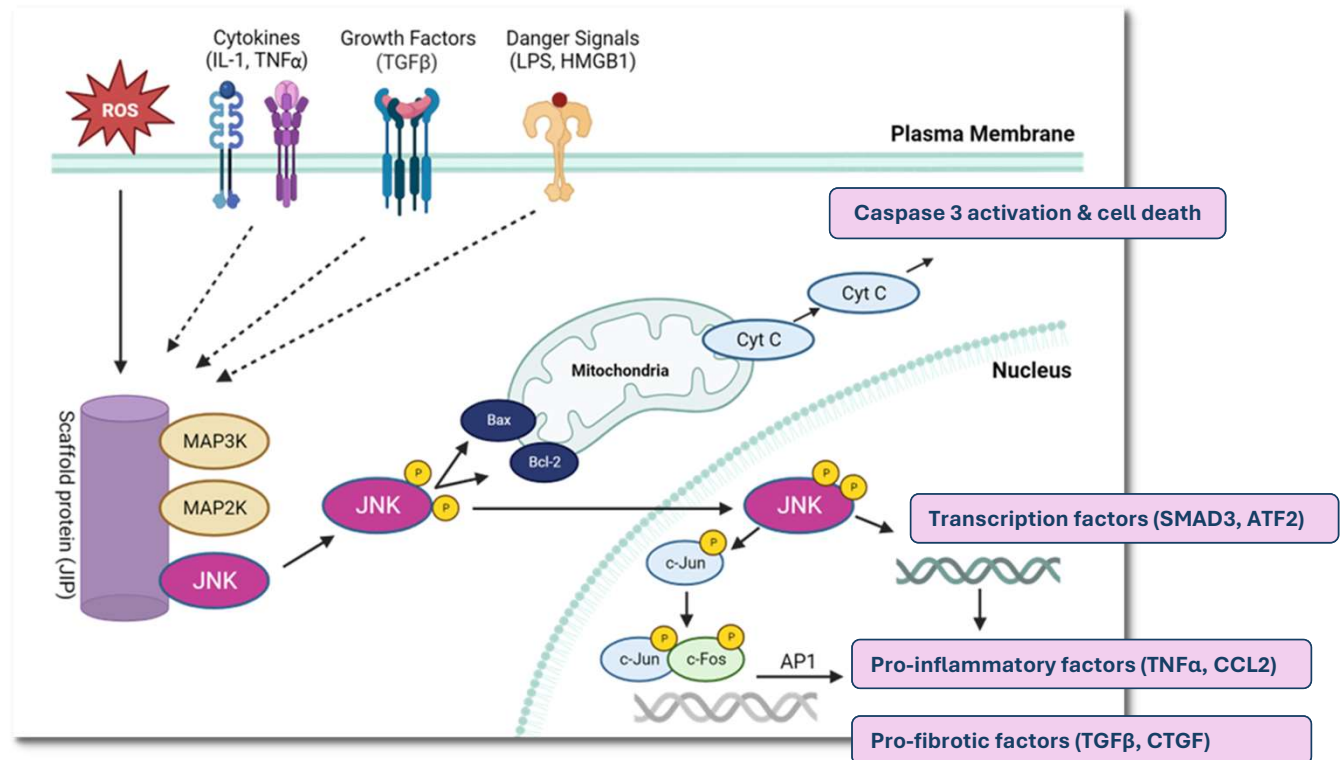
KREV-202 Program

JNK pathway is associated with cell death, damage, and fibrosis

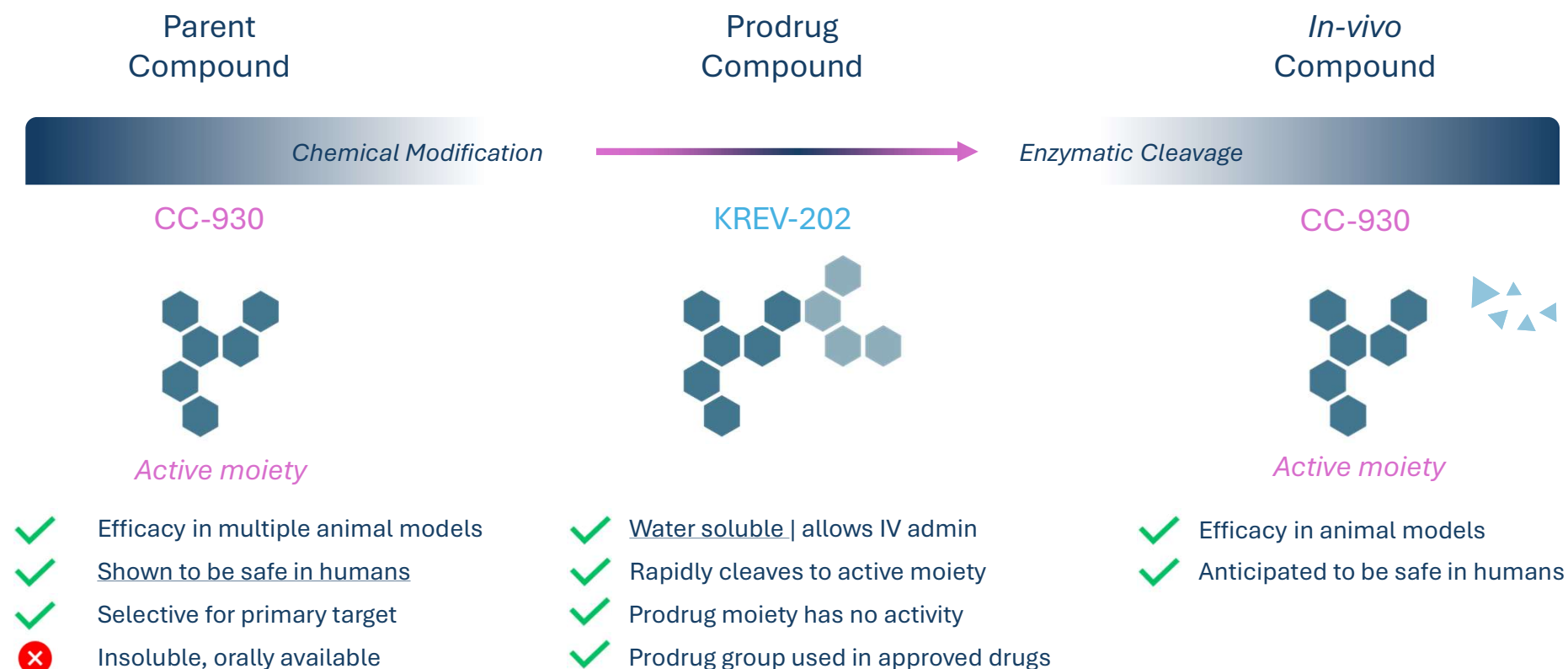
JNK enzymatic pathway is activated in response to various cellular stresses and plays an important role in cell death and inflammation

Activation of the JNK pathway is a common feature in human kidney injury

JNK inhibition can impact inflammation, cell death, and fibrosis



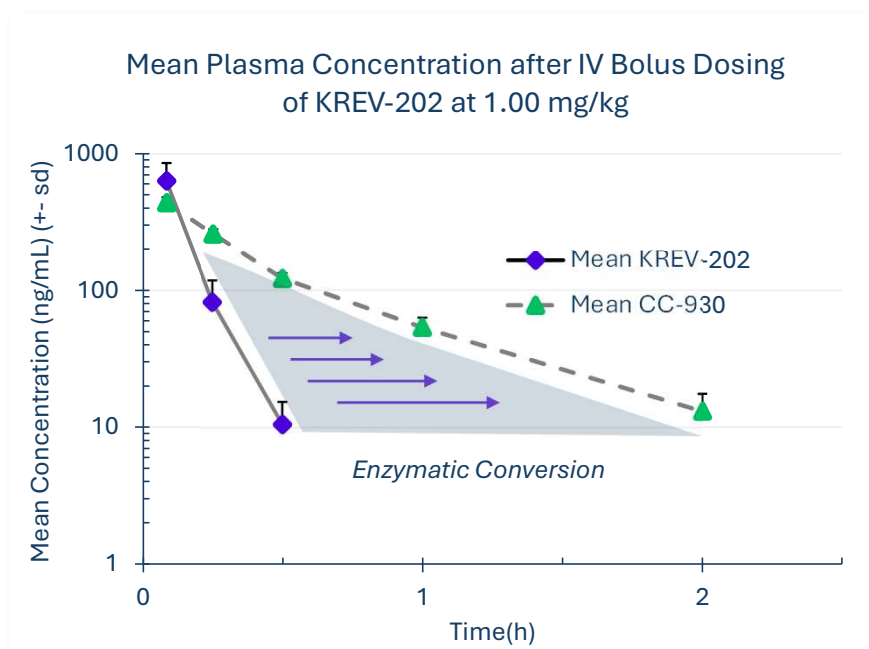
KREV-202 –a novel prodrug compound with unique properties extends use to IV administration



KREV-202 is rapidly cleaved to the active species (CC-930) by isoforms of alkaline phosphatase which are widely distributed throughout mammalian tissues

Rapid enzymatic cleavage to facilitate IV administration

KREV-202 shows superior pharmaceutical properties and is rapidly cleaved to CC-930 *in-vivo*



Solubility Comparison

Compound	Solubility in PBS* at pH 7.4
KREV-202	45.6 mg/ml
CC-930	0.060 mg/ml

Why we are excited about KREV-202

In *in-vivo* animal studies¹, KREV-202 showed a significant ability to protect against renal failure, renal inflammation, and renal fibrosis

88%

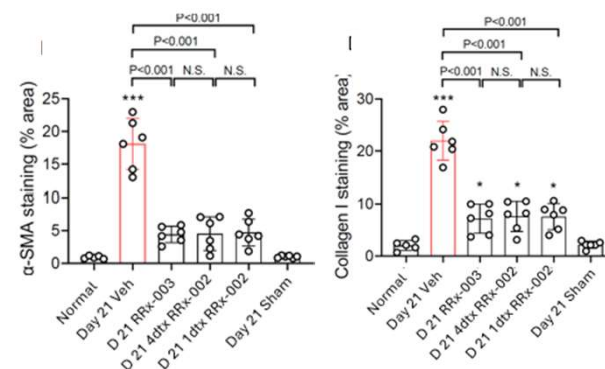
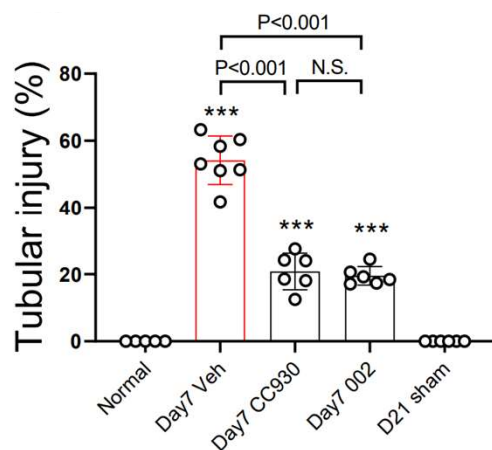
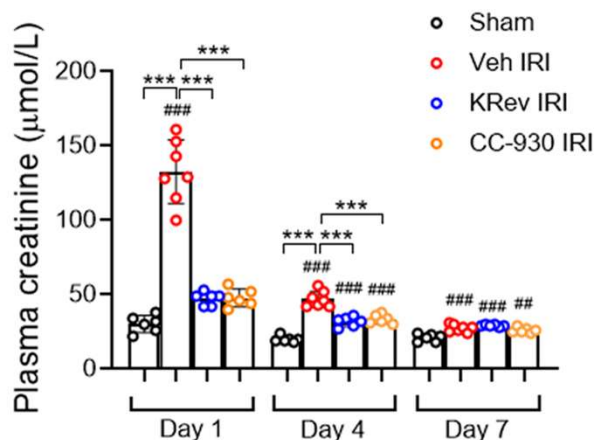
Reduction
in plasma
creatinine

65%

Reduction
in tubular
damage

79%

Reduction
in fibrosis
markers



α-SMA

Collagen 1

Note: RRx-003 is internal name for CC-930 ; RRx-002 was original compound name of KREV-202

Note: RRx-002 was original compound name of KREV-202

1. Submitted for peer review publication; full study details available upon request

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Development timeline for asset

Key Milestones Completed with Initial Capital

- Synthesized CC-930 and KREV-202
- PK and PD studies comparing KREV-202 and CC-930
- Preclinical animal (rat) *in-vivo* pharmacodynamic studies with KREV-202 in warm ischemia model
- PCT application submitted April '24 on KREV-202
- Completed Pre-IND meeting

Use of Funds

- Series A
 - T1 – IND enabling studies
 - Process CMC, drug formulation and drug product dev.
 - Complete in-vitro and in-vivo tox.
 - T2 - SAD / MAD Ph. 1
- Series B
 - Ph. 2 (dependent on additional Series B financing)

\$375.0k Invested to Date

\$20.0 million Series A Preferred (T1 - \$7M - \$8M – IND Enabling; T2 - \$12M – \$13M FIH - EOP1)

Preclinical
Studies

IND-Enabling

Clinical
Studies

Phase 1

Phase 2

Series B dependent

2026

2027

2028

2029

2030

2031

Appendix

Competitive landscape

Known agents currently in development

Sponsor	Stage	Agent	Modality	MoA	NCT	Primary Endpoint
Novartis	Ph. 2	TIN816	Recombinant human CD39 enzyme	ATP Modulator	NCT05524051	Ratio of highest serum creatine value within 5 days post-dose vs. baseline
Astra Zeneca	Ph. 3	Ultomiris™	mAb	C5 inhibitor	NCT05746559	No. of participants experiencing major adverse kidney events (MAKE) at 90 days post CPB surgery
Renibus Therapeutics	Ph. 3	RBT-1	Combo of stannic protoporphyrin & iron sucrose	Preconditioning agent	NCT06021457	Composite of death, incidence of AKI requiring RRT, ICU days, and 30-day cardiopulmonary
AM Pharma	Ph. 2	Ilofotase alfa	Recombinant alkaline phosphatase (recAP)	Dephosphorylating and detoxifying DAMPs and PAMPS	Not available	01/16/2024 press release – “ratio between pre-and post-surgery creatine levels”
Guard Therapeutics	Ph. 2b	RMC-035	Recombinant protein (mimic of alpha-1 microglobulin)	Reductase activity, binding of free radicals and heme, and binding, protection of mitochondria	Not available	01/30/2024 R&D Day – “Change from baseline in eGFR based on serum creatine at Day 90”

Select scientific papers about CC-930

Title	DOI
Plantevin Krenitsky V, Nadolny L, Delgado M, et al. Discovery of CC-930, an orally active anti-fibrotic JNK inhibitor . Bioorganic & Medicinal Chemistry Letters. 2012 Feb;22(3):1433-1438.	DOI: 10.1016/j.bmcl.2011.12.027
van der Velden, J.L.J., et al. (2016), JNK inhibition reduces lung remodeling and pulmonary fibrotic systemic markers . Clin Trans Med, 5: e36.	DOI 10.1186/s40169-016-0117-2
Grynberg Keren, Ma Frank Y. , Nikolic-Paterson David J., The JNK Signaling Pathway in Renal Fibrosis . Frontiers in Physiology, vol. 8 (2017)	DOI=10.3389/fphys.2017.00829
Keren Grynberg, et al., JUN Amino-Terminal Kinase 1 Signaling in the Proximal Tubule Causes Cell Death and Acute Renal Failure in Rat and Mouse Models of Renal Ischemia/Reperfusion Injury , The American Journal of Pathology, Volume 191, Issue 5, 2021, Pages 817-828,	https://doi.org/10.1016/j.ajpath.2021.02.004

Select scientific papers about CSA-AKI

Title	DOI
Vives M, Hernandez A, Parramon F, Estanyol N, Pardina B, Muñoz A, Alvarez P, Hernandez C. Acute kidney injury after cardiac surgery: prevalence, impact and management challenges . <i>Int J Nephrol Renovasc Dis</i> . 2019 Jul 2;12:153-166.	10.2147/IJNRD.S167477
Chertow GM, Levy EM, Hammermeister KE, Grover F, Daley J. Independent association between acute renal failure and mortality following cardiac surgery . <i>Am J Med</i> . 1998 Apr;104(4):343-8.	10.1016/s0002-9343(98)00058-8
Bonventre, J.V. and Yang, L., 2011 Cellular pathophysiology of ischemic acute kidney injury . <i>J Clin Invest</i> . 2011;121(11):4210-4221.	10.1172/JCI45161
Alshaikh HN, Katz NM, Gani F, Nagarajan N, Canner JK, Kacker S, Najjar PA, Higgins RS, Schneider EB. Financial Impact of Acute Kidney Injury After Cardiac Operations in the United States . <i>Ann Thorac Surg</i> . 2018 Feb;105(2):469-475.	10.1016/j.athoracsur.2017.10.053
Schurle A, Koyner JL. CSA-AKI: Incidence, Epidemiology, Clinical Outcomes, and Economic Impact . <i>J Clin Med</i> . 2021 Dec 8;10(24):5746.	10.3390/jcm10245746
Casanova, A.G.; Sancho-Martínez, S.M.; Vicente-Vicente, L.; Ruiz Bueno, P.; Jorge-Monjas, P.; Tamayo, E.; Morales, A.I.; López-Hernández, F.J. Diagnosis of Cardiac Surgery-Associated Acute Kidney Injury: State of the Art and Perspectives . <i>J. Clin. Med</i> . 2022, 11, 4576.	10.3390/jcm11154576
Leaf DE, Waikar SS. End Points for Clinical Trials in Acute Kidney Injury . <i>Am J Kidney Dis</i> . 2017 Jan;69(1):108-116.	10.1053/j.ajkd.2016.05.033

Contact information

Thank you!

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