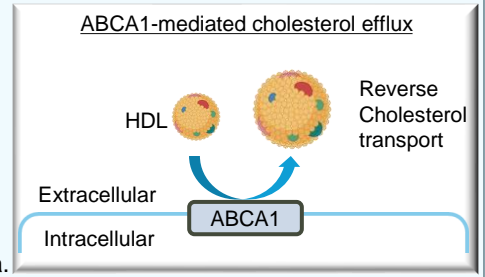


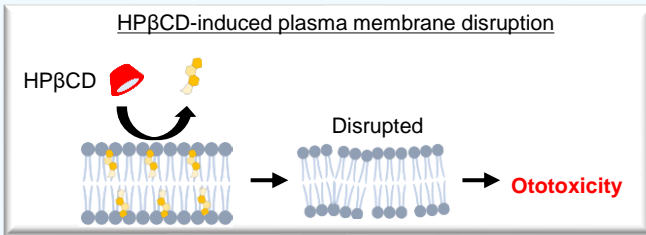
Cyclodextrin (CD) : Cholesterol Metabolism Modulators (CMMs)

- ✓ CDs are composed of glucose units in a ring structure, which can host cholesterol within the ring and significantly increase its solubility.
- ✓ CDs can normalize dysregulated cholesterol metabolism and mediate cholesterol efflux via the LXR-ABCA1 axis and other pathways.
- ✓ Hydroxypropyl-β-CD (HPβCD), a derivative of βCD, is in clinical trials for Alzheimer's disease, Niemann-Pick Type C, and familial hypercholesterolemia.



Problem

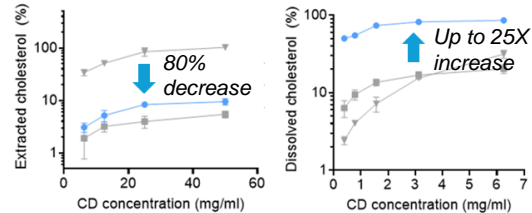
- ✓ HPβCD is known to induce ototoxicity and other adverse events.
- ✓ Cholesterol removal from the plasma membrane and its disruption is known as the main cause of ototoxicity.



Solution

- ✓ RN-005 is cross-linked HPβCD, which exhibits minimal cholesterol removal from the plasma membrane and superior cholesterol solubilization.

Preferential interaction of RN-005 with non-membrane cholesterol

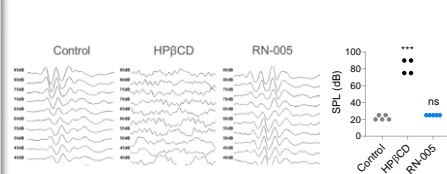


Safety and efficacy

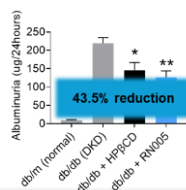
- ✓ RN-005 does not induce ototoxicity at 8,000 mg/kg whereas HPβCD induces complete hearing loss in mice.
- ✓ RN-005 has shown therapeutic efficacy in varying disease models including diabetic kidney disease (DKD), atherosclerosis, and Alzheimer's disease (AD).
- ✓ RN-005 provides a much wider therapeutic window compared to HPβCD, implying its great potential to allow safe application in varying cholesterol-driven diseases.

**Restricted data information due to confidential issues*

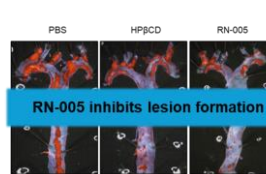
Auditory brainstem response (ABR) test



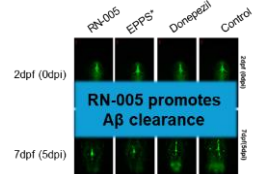
DKD model



Atherosclerosis model



AD model



Pipeline

- ✓ We are developing novel CD-based drug candidates for various cholesterol-driven diseases

Program	Discovery	Optimization	Preclinical	Clinical
Diabetic kidney disease	██████████	██████████	██████████	
Focal segmental glomerulosclerosis	██████████	██████████	██████████	
Alzheimer's disease	██████████	██████████	██████████	
Niemann-Pick Type C	██████████	██████████	██████████	
Atherosclerosis	██████████	██████████	██████████	
Cancer	██████████			