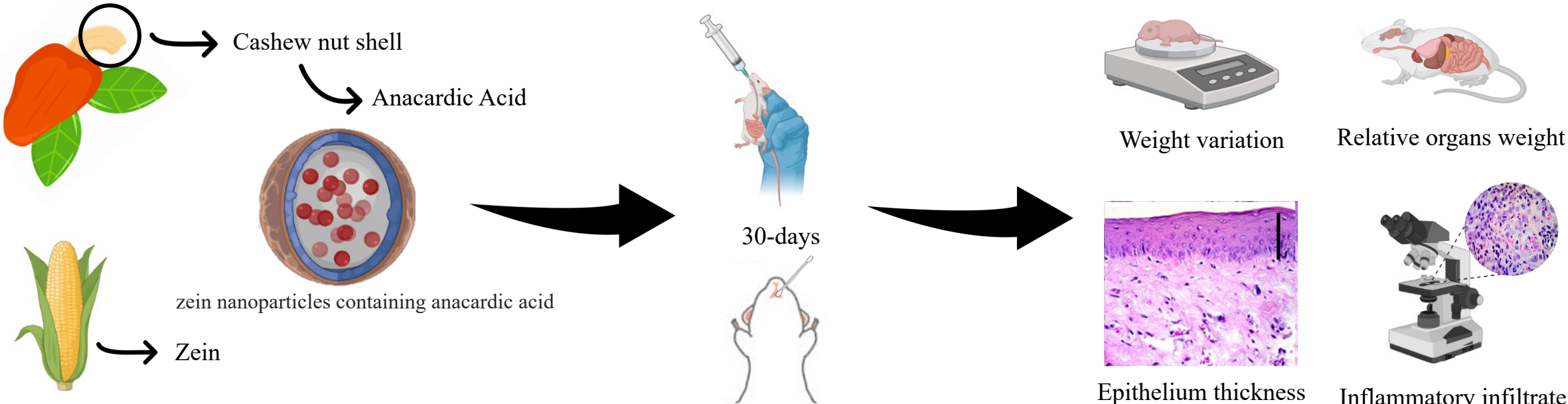


# Oral mucosa and subacute systemic toxicity of anacardic acid loaded-zein nanoparticles



Images from BioRender®

AaZNp  
BZNp  
↑  
Weight loss  
 $p < 0.05$   
\*compare to negative control

AaZNp  
BZNp  
↓  
Cardiac mass  
 $p < 0.05$   
\*compare to negative control

Sterile Saline Solution  
*Negative control Group*  
Blank zein nanoparticles  
*BZNp Group*  
Anacardic acid loaded-zein nanoparticles  
*AaZNp Group*  
Chlorhexidine gluconate 0.12%  
*Standard Group*

AaZNp = BZNp = Negative control = Standard  
*kidneys, lungs, liver, and spleen weights*

No significant signs of inflammatory infiltrate

AaZNp  
BZNp  
↓  
Jugal epithelium  
Thickness  
 $p < 0.05$   
\*compare to standard group

AaZNp  
BZNp  
Standard  
↑  
Gingival  
Thickness  
 $p < 0.05$   
\*compare to negative control

The administration of AaZNp and BZNp caused a reduction in the cardiac mass without showing other signs of oral mucosal or systemic toxicity