

# Novel Iridium-based Prodrug for Bioimaging and Radiochemotherapy

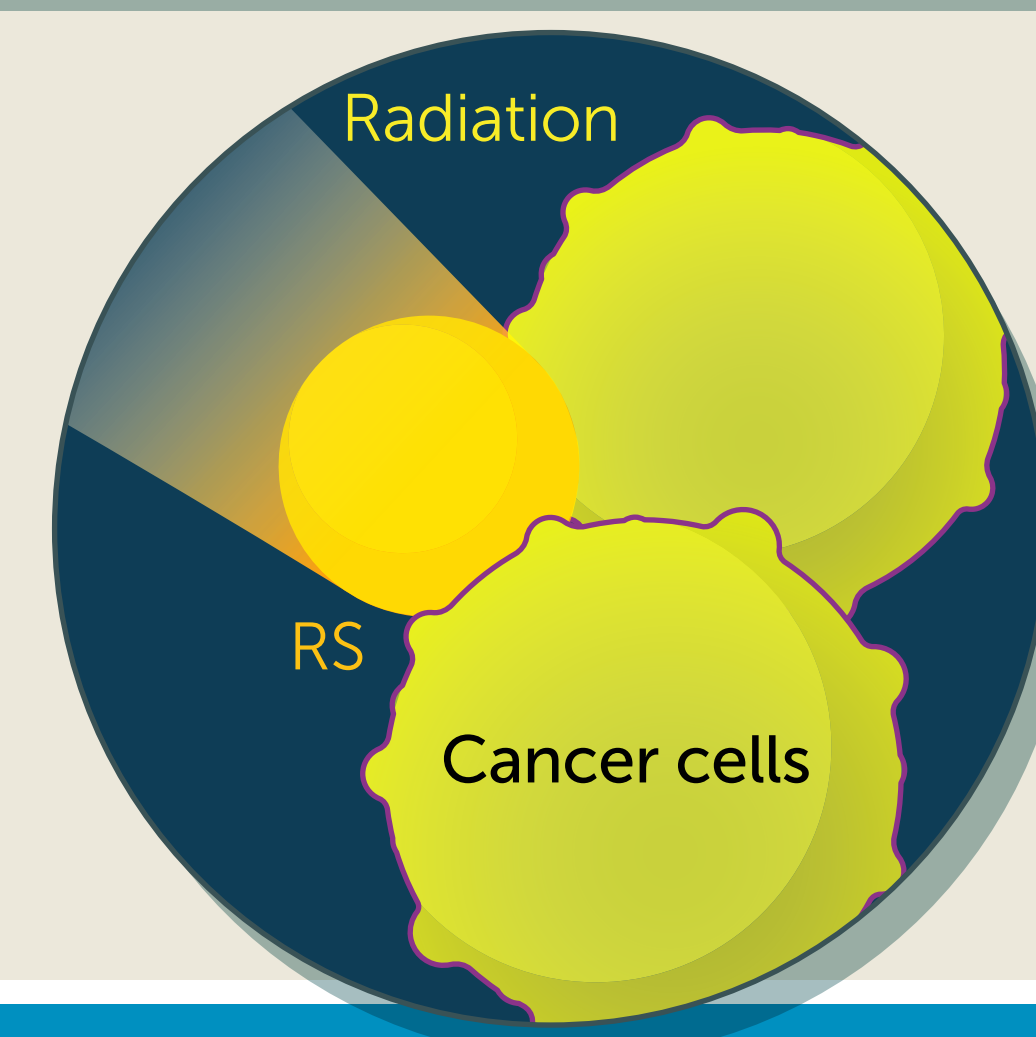
PICK  
OF THE  
WEEK

Chemical  
Science



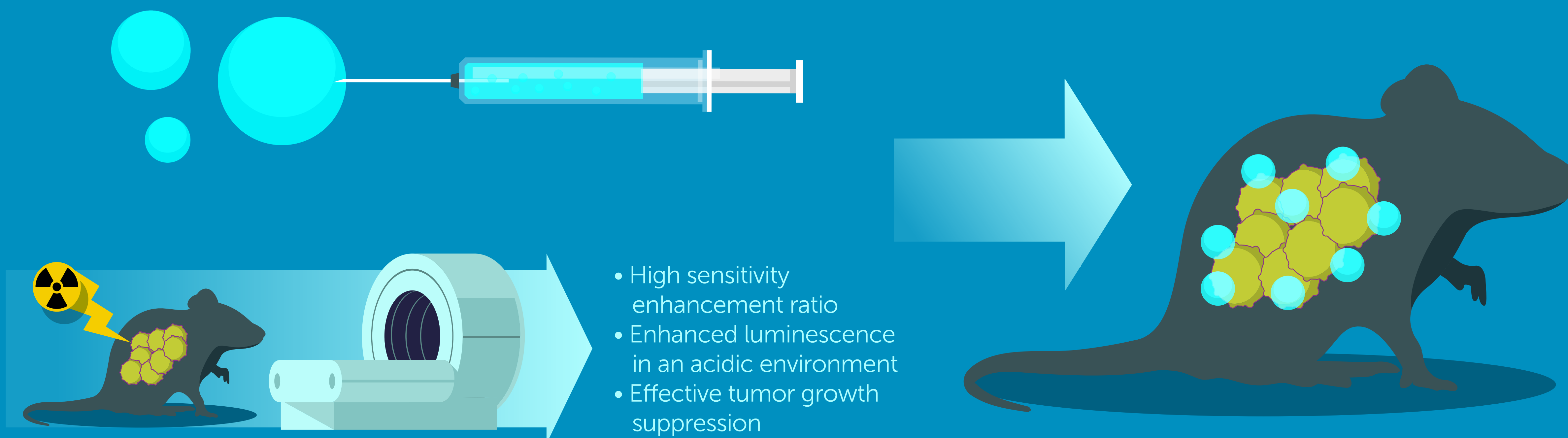
Radiosensitizers (RS) release energy when receiving radiation thus causing cell death and making them useful for radiochemotherapy

However, they have limited applications due to their low bioavailability and poor tumor visualization



Can a prodrug with improved bioavailability for cancer-targeted bioimaging and radiochemotherapy be synthesized using iridium?

Cyclometalated iridium-based (Z=77) prodrug Ir-NB



**Ir-NB** is a novel tumor chemoradiotherapy agent with effective tumor suppression and bioimaging