

Max 300 words each. Submit as 1 pdf file to the turn it in link on moodle.

Q1. Critically evaluate the drug delivery requirements for **BOTH** successful RNA interference treatment **and** RNA mediated vaccination. Please use named examples. Identify factors that prevent siRNA medicines from becoming mainstream (25% of the available marks)

Q2. Casgevy (exagamglogene autotemcel) represents a first in class drug. Critically evaluate its mode of action and describe some of the delivery barriers that this medicine has had to overcome to be clinically effective. Critically evaluate why this approach is limiting. (25% of the available marks)

Q3. RAS is one of the most commonly mutated oncogenes in cancer. Critically evaluate the statement: "RAS is undruggable".

Q4 Critically evaluate CAR T cell therapy in both blood cancers and in solid tumours. Include named examples.