**Debate prompts: “With the emergence of single-cell technologies, there is no longer a place for bulk RNA sequencing. Discuss.”**

**Impact on Personalised Medicine:**

* How do single-cell technologies enhance our ability to tailor treatments to individual patients compared to bulk technologies?
* Can bulk technologies match the precision level of single-cell analyses in the context of personalized medicine?

**Drug Resistance Studies:**

* Discuss how single-cell technologies can be used to better understand the emergence of drug resistance in cancer cells.
* Are there cancer related examples where bulk analysis has successfully identified resistance mechanisms that single-cell technologies could not?

**Accessibility:**

* Consider the accessibility and resource requirements of single-cell technologies in different parts of the world. How does this compare to bulk technologies?
* Could the high cost and complexity of single-cell technologies limit their impact in less resource-rich environments?

**Data Complexity:**

* Debate the challenges associated with interpreting the vast amount of data generated by single-cell technologies. Is more data necessarily better?
* How do the complexities of single-cell data analysis affect the speed and efficiency of research compared to bulk analysis?

**Ethical Considerations:**

* Are there ethical considerations that arise specifically because of the resolution of data provided by single-cell technologies?
* Discuss the potential for misinterpretation of single-cell data and how this could impact patients compared to bulk data analyses.

**Technological Integration:**

* How can single-cell and bulk technologies complement each other in a research setting?
* Provide examples where integrating both approaches led to breakthroughs that might not have been possible using just one method.