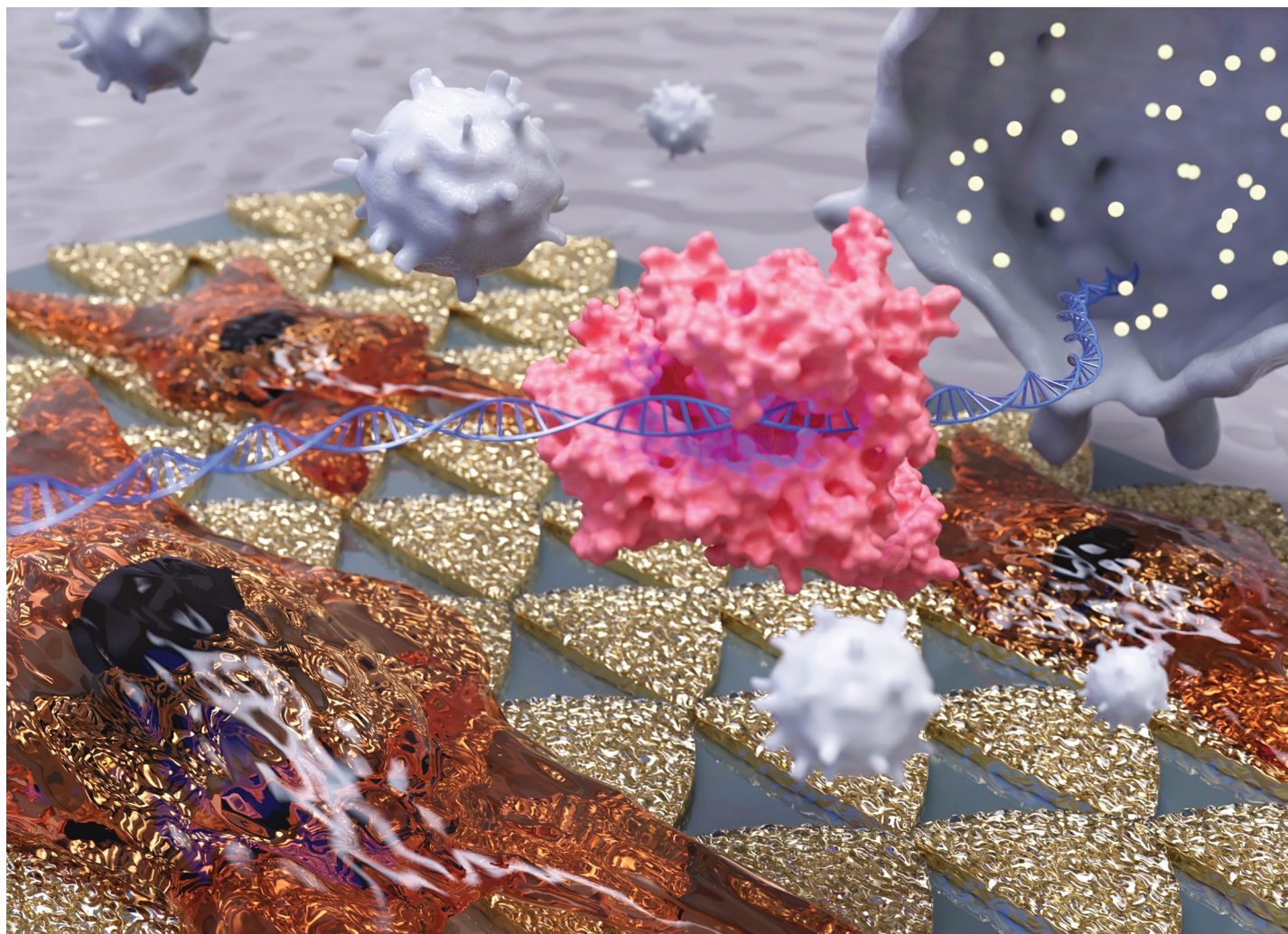


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**Intracellular biosensors by functional nanomaterial-integrated
CRISPR technologies for real-time molecular sensing**

This study summarizes recent advances in CRISPR-based intracellular biosensing, emphasizing that CRISPR gene-editing tools can sense diverse biomarkers inside cells, with a focus on nanomaterial-assisted delivery, optical signal enhancement, emerging applications, and current challenges and future perspectives.

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