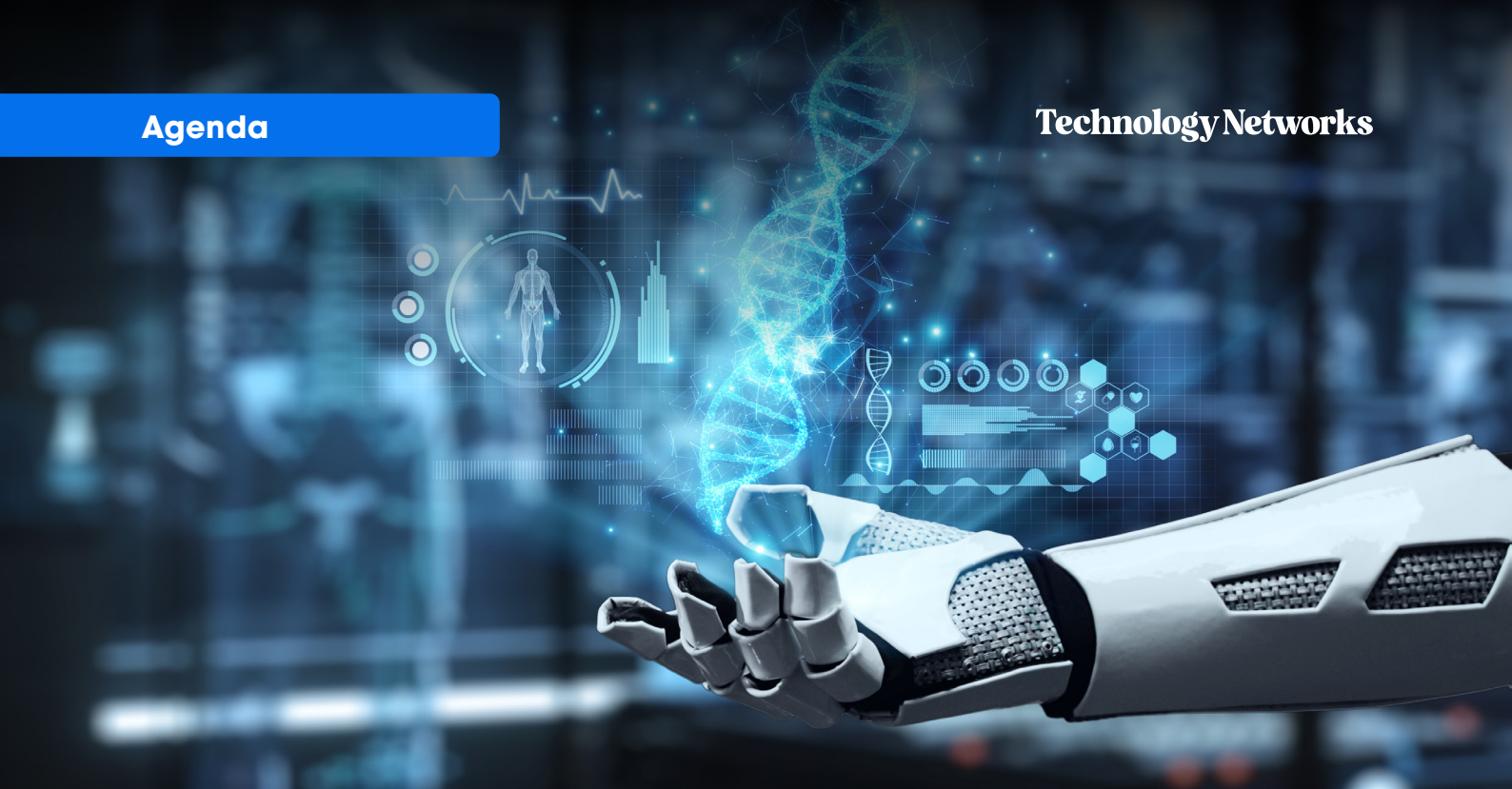




Technology Spotlight: AI & CRISPR Genome Editing 2026

September 29th, 2026 8am PDT | 11am EDT | 4pm BST | 5pm CEST

Join us for an insightful webinar exploring how advances in artificial intelligence, protein engineering and high-throughput screening are shaping the future of CRISPR genome editing and enabling the development of increasingly precise genetic medicines. From AI-driven gRNA and experiment design to the engineering of next-generation CRISPR systems, emerging approaches are helping researchers improve activity, specificity and deliverability while translating computational designs into practical experimental workflows.

Through expert-led talks, attendees will explore how AI and systematic engineering approaches are being applied across CRISPR workflows, from computational design and screening through to scalable production and therapeutic development. The sessions will highlight emerging approaches including engineered CasX for genome editing and epigenetic silencing, alongside established strategies such as Cas9, prime and base editing, while examining the critical reagent and delivery considerations that can influence CRISPR performance in practice.

Attend this webinar to:

- Understand how AI and machine learning are reshaping gRNA and CRISPR experiment design
- Explore how protein engineering and high-throughput screening can improve CRISPR activity, specificity and deliverability
- Gain insight into how AI-designed components and engineered CRISPR systems can be translated into practical, scalable workflows
- Discover emerging applications of CRISPR technologies, including genome editing and epigenetic silencing, and how these approaches could support the development of more precise genetic medicines

TALK 1

Ex vivo and In vivo CRISPR Editing to Reprogram T Cells

Presented by Justin Eyquem, PhD, University of California, San Francisco



CAR T-cell therapies have shown significant potential, but challenges remain in developing effective and scalable cell therapies. In this session, Justin Eyquem will explore how genome editing and synthetic receptors can be used to reprogram T cells and address current limitations of CAR T-cell therapy. He will discuss how innovative tumor models and functional genomics can help identify challenges in T-cell therapy and inform new engineering strategies. The session will highlight his latest efforts to improve the manufacturing of multiplexed gene-edited T-cell therapies and advance the development of next-generation cell therapies.

In his talk, he will:

- Explore how genome editing can be used to reprogram T cells
- Examine approaches for overcoming current limitations of CAR T-cell therapy
- Discuss how functional genomics and innovative tumor models can inform T-cell engineering
- Highlight strategies for improving the manufacturing of multiplexed gene-edited T-cell therapies

TALK 2

CRISPR in the Age of AI: What Machine Learning Means for the Future of Gene Editing

Presented by Cody Palumbo, PhD, Senior Application Scientist, Technical Design, TriLink BioTechnologies



AI is reshaping how researchers approach CRISPR and gRNA design, opening new possibilities for optimizing gene editing experiments. In this session, Dr. Cody Palumbo will explore how AI-driven approaches are influencing CRISPR workflows, from initial design through to practical experimental implementation.

He will discuss how AI-designed components can be translated into experiment-ready reagents and scalable production, while highlighting the critical reagent and delivery inputs that can influence how these designs perform at the bench. The session will examine what is required to move AI-generated designs from the computational environment into reliable, practical gene editing workflows.

In his talk, he will:

- Explore how AI is transforming gRNA and CRISPR experiment design
- Examine how AI-designed components can be translated into scalable production and experiment-ready reagents
- Highlight key reagent and delivery inputs that can impact the performance of AI-designed components
- Discuss the considerations involved in moving AI-generated designs from the cloud to the bench