

Advances in Immuno-Oncology: Evaluating a Bispecific, Bifunctional Fusion Protein

EXPERT INTERVIEW

FACULTY INFORMATION

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Dr. Gulley has nothing to disclose.





M7824: AN INNOVATIVE FIRST-IN-CLASS BIFUNCTIONAL FUSION PROTEIN



PHASE 1 TRIAL OF M7824



- Safety
 - Grade ≥3 treatment-related AE in 4 patients
 - Skin infection secondary to localized bullous pemphigoid

TOPECGLOBAL

- Asymptomatic lipase increase
- Colitis
- Gastroparesis

Strauss J. et al. Clin Cancer Res. 2018;24:1287-1295.

PHASE 1 TRIAL OF M7824

- 19 heavily pre-treated patients with ECOG 0-1
- Efficacy
 - 1 ongoing confirmed complete response (cervical cancer)
 - 2 durable confirmed partial responses (pancreatic and anal cancer)

- 1 near partial response (cervical cancer)
- 2 prolonged stable disease (pancreatic cancer; carcinoid)
- Sequestered all activated TGF-beta in plasma throughout dosing period

KEY FINDINGS IN LUNG CANCER

- Lung cancer
 - 40 pts at the 1200mg dose
 - 28% ORR
 - All responders were PDL1 with ~80% response in the hi PDL1+ subgroup

KEY FINDINGS IN HPV-RELATED CANCERS

- HPV-associated cancers
 - 17 pts
 - ORR 35%
 - 42% of patients with HPV+ tumors responded

LOOKING FORWARD: IMMUNE CHECKPOINT INHIBITION

- Combination therapy is key
 - This agent alone works like combination therapy by targeting two different pathways
 - Still room to target additional pathways
- Several ongoing studies combining this agent with other therapeutic options/anti-cancer vaccines
 - The goal is to generate a good immune response in those T-cell-poor tumors and then allow those immune cells to work by blocking TGF-beta and by blocking PD-L1 in the tumor microenvironment

LOOKING FORWARD: IMMUNE CHECKPOINT INHIBITION (CON'T)

- M7824 will potentially work as a single agent in multiple different indications, not only in the refractory setting where there is resistance, and may lead to improved response rate
- Impacts of M7824 are already seen in lung and HPV-positive cancers