



## MODULAR DENDRON MICELLES FOR COMBINATION IMMUNOTHERAPY

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### The Invention

UW-Madison researchers have developed a nanoparticle-based platform comprising targeting agents (i.e., tumor selective peptides) and active agents (e.g., immuno- and chemo-drugs). The nanoparticles comprise hyperbranched dendrons, linear hydrophobic polymers, and a polyethylene glycol (PEG) corona. When functionalized, these materials self-assemble into immunotherapeutic dendron-micelles, which can be administered as a pharmaceutical formulation. Given their adaptability, the dendrimer-micelle nanoparticles could be further functionalized to existing radiation therapy agents, further enhancing their functionality.

### Additional Information

#### For More Information About the Inventors

- [Seungpyo Hong](#)

#### Tech Fields

- [Drug Delivery : Other drug delivery technologies](#)
- [Therapeutics & Vaccines : Oncology](#)

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