Engineered biomaterials and microfluidic systems that augment cancer immunotherapy and to analyze disease mechanisms

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The transport of fluids, biomolecules and cells into the tumor microenvironment and out of it to draining lymph nodes and into the circulation is facilitated by the concerted influence of the blood and lymphatic vascular systems. Our efforts to characterize the impact of these transport processes on disease progression as well as to develop therapeutic approaches for tumor therapy that leverage these processes will be described.