Medical Chemistry Seminar

“Development of High-Throughput Functional Genomics Tools to Identify New Cancer Drug Targets”

Prof. Michael C. Bassik

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Date: November 11(Fri), 2022
Time: 15:00–16:30
Venue: Seminar Room 103,107 Building A (医学部A棟103，107室)

My laboratory is focused on (1) the development of new technologies for high-throughput functional genomics using the CRISPR/Cas9 system, and (2) application of these tools to (a) identify drug targets in cancer and (b) study mechanisms of cellular uptake by endocytosis and phagocytosis of diverse particles (ranging from bacteria, viruses, and protein toxins to cancer cells).
Recently we have developed new strategies to identify new ‘don’t eat me’ signals expressed by tumor cells that prevent their recognition and engulfment by macrophages. Many of these present promising new therapeutic targets for cancer. I will discuss ongoing efforts to investigate inter-cellular interactions between macrophages and tumor cells, as well as more general features of macrophage behavior.

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