CBC SEMINAR ANNOUNCEMENT

Professor Samuel Achilefu
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Utilizing the power of light and light-sensitive molecules to visualize and treat cancer

Advances in cancer biology and instrumentation have allowed the development of novel strategies to improve cancer management. Central to these efforts is the discovery of highly cancer-selective molecular probes and light-sensitive drugs to improve the accuracy of cancer diagnosis, selectively destroy cancerous tissue, and minimize off-target toxicities.

This presentation will highlight how we have coupled the pathophysiology of cancer to design small molecules that can identify cancer cells and tumor microenvironment. The second part of this talk will focus on our efforts to utilize small molecules and nanoparticles to induce cancer cell death via photodynamic therapy (PDT). New strategies to overcome the tissue depth limitation of PDT will be discussed. Through these integrated efforts, we hope to improve the treatment outcome of cancer and spur the development of novel molecules that will enable the early detection and eradication of cancer.

Date: 20th December 2018 (Thursday)
Time: 10.00am to 11.00am
Venue: Executive Classroom 1 (Level 3), MAS Atrium
Host: Associate Professor Xing Bengang

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