



Dr. Louise Howe

AAAS Fellow

Directorate for Engineering

Office of the Assistant

Director Class of 2014-2015

Louise R. Howe is a cancer biologist whose research focuses on breast cancer, exploring both pathways and prevention. Originally from England, she was educated at the University of Cambridge, obtaining her B.A. (1984) and Ph.D. (1989) in Natural Sciences (Biochemistry). She subsequently performed postdoctoral fellowships at the Institute of Cancer Research in London and the Howard Hughes Medical Institute at the University of California, San Francisco, before moving to Weill Cornell Medical College in 1996. Louise's research has consistently focused on pro-proliferative signaling pathways, but has become progressively translational, seeking to leverage experimental findings for tangible human health benefit. Her recent exploration of the links between obesity and cancer risk has increased her desire to engage with broader public health issues, such as how to combat the worrisome prevalence of obesity and associated diseases. This prompted her to enroll in the AAAS S&TP Fellowship Program with the goal of exploring policy approaches for directly impacting human health. Beyond the lab, Louise has contributed extensively in the peer review arena, reviewing for the NIH/NCI, the Wellcome Trust, the UK Medical Research Council, as well as multiple charitable organizations including Komen, Breast Cancer Alliance, and the Prevent Cancer Foundation. She is a firm advocate of lifestyle-based disease prevention and a champion mouse rancher.