Lois Lampson, Associate Professor, Harvard Medical School

Lois A. Lampson, PhD, is an Associate Professor of Neurosurgery at Brigham and Women’s Hospital and Harvard Medical School in Boston (USA). She made some of the first monoclonal antibodies to human histocompatibility antigens (Nature 271: 461-462, 1978), and some are still in active use. Dr. Lampson studies immune activity in the brain, especially against microscopic brain tumor (Targeted therapy for neuro-oncology: reviewing the menu. Drug Discovery Today 14: 185-91, 2009). Current interests include use and interpretation of monoclonal antibody activity in the brain (Monoclonal antibodies in neuro-oncology: Getting past the blood-brain barrier. mAbs 3: 153-60, 2011), and the best use of small animal models (Brain tumor models to predict clinical outcome: Like the phoenix? In Animal Models of Brain Tumor, R. Martinez, ed., Humana, 2012, in press). Dr. Lampson’s talk at this meeting is stimulated by the enormous effort and creativity that have gone into delivering drugs and antibodies to the brain. In reviewing experience with antibody therapy for the brain, she will discuss how and where antibody may act, how it may get access to the brain, and when access is indeed the major challenge.