Leslie Walker, Chemistry

Assistant Professor in Chemistry

B.S., Mississippi College
M.S., University of Mississippi Medical Center
Ph.D., University of Mississippi Medical Center

Academic Articles
Walker L, Perkins E, Kratz F, Raucher D.; Cell penetrating peptides fused to a thermally targeted biopolymer drug carrier improve the delivery and antitumor efficacy of an acid-sensitive doxorubicin derivative; International Journal of Pharmaceutics, 2012 Oct 15;436(1-2):825-32.

Hearst SM, Walker LR, Shao Q, Lopez M, Raucher D, Vig PJ; The design and delivery of a thermally responsive peptide to inhibit S100B-mediated neurodegeneration; Neuroscience. 2011 Dec 1;197:369-80.

Mikecin A, Walker L, Kuna M, Raucher D; Thermally targeted p21 peptide enhances bortezomib cytotoxicity in androgen-independent prostate cancer cell lines; Anti-Cancer Drugs, epub.

Professional Leadership:
Chair - MS Local Section of the American Cancer Society 2014

Other
Investigating the ability of elastin-like polypeptide as a carrier for currently-used chemotherapeutic drugs to decrease toxicity to normal tissues. This is accomplished by heating the tumor, and the biopolymer will change its physical properties when it comes in contact with the heated tumor tissue and will escape the blood vessels and accumulate in the tumor.