

Medicinal Chemistry and Pharmacognosy (MC 781)
College of Pharmacy
833 South Wood Street
Chicago, Illinois 60612-7229

December 4, 2018

RE: JOVE Invited Article Submission

Dear Dr Weldon,

Many cancers metastasize to specific tissues and we believe the underlying cause of tissue/organ specific metastasis likely revolves around chemical signaling cues. We have recently published a new imaging mass spectrometry (IMS) technique to accomplish this task. IMS has historically been used with tissues, 3D cell cultures (spheroids) and microbial colonies. Specifically, in microbes, agar based IMS studies have facilitated exciting discoveries in the microbiology and natural products fields (Yang et al. 2009, Nat Chem Biol) since it was reported by the Dorrestein lab in 2009. We believe our methodology will open new avenues to studying the chemical exchange between cells and tissues in cancer research in the same way microbial imaging mass spectrometry has for microbiology. We are hopeful that this would excite the readership of JOVE as it represents an innovative approach to studying the chemistry related to cancer progression.

Below is a list of knowledgeable referees that could evaluate this paper. They have been chosen based on their expertise in imaging mass spectrometry, ovarian cancer, and methodology development.

Amanda Hummon, The Ohio State University; hummon.1@osu.edu

Expertise: Mass spectrometry imaging, discovery of metabolite and protein based biomarkers using mass spectrometry in cancers

David Muddiman, North Carolina State University; dcmuddim@ncsu.edu

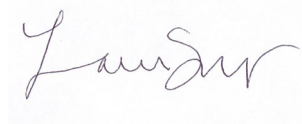
Expertise: Mass spectrometry imaging instrument and method development, ovarian cancer in unusual model systems

Ernst Lengyel, University of Chicago; elengyel@uchicago.edu

Expertise: Diagnosis and treatment of gynecologic malignancies, specifically, ovarian, cervical and endometrial cancers

Thank you in advance for considering this manuscript.

Sincerely,



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