

# Waleed Ali

## CONTACT

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## RESEARCH EXPERIENCE

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| JUN-SEPT 2016      | <p>Researcher at KEPLEY BIOSYSTEMS, Greensboro, NC<br/><i>Analytical Chemistry and Nanobiology</i></p> <p>Conducted benzene functionalization and improved on existing protocols. Performed high performance liquid chromatography (HPLC) to examine presence of certain biogenic amines, and in conjunction with mass spectrometry (MS) examined unknown chemical compounds in water-based samples. Also conducted literature research on the existing state of aquaculture.</p>  |
| JUN-AUG 2015       | <p>Researcher at CYTOMAG LLC, Sunnyvale, CA<br/><i>Rare Cell Isolation and Capture</i></p> <p>Conducted literature searches to examine which surface markers could be used to isolate circulating tumor cells through immunomagnetic separation. Cultured adherent cell lines and performed Immunohistochemistry. Coded for the automation of sample loading and various washes for immunomagnetic separation with Arduino. Became familiar with pathways involved with Epithelial-Mesenchymal-Transition (EMT). <a href="#">Funding from NSF SBIR Phase II Grant 1430998</a></p>                                |
| SEPT 2013-MAR 2016 | <p>Researcher at DEPT. OF PATHOLOGY, UNIVERSITY OF ILLINOIS AT CHICAGO, Chicago, IL<br/><i>Cell Histology and Bioinformatics</i></p> <p>Helped to create a program which differentiated salivary gland cancers based on nuclei characteristics, utilizing both Matlab and R. Analyzed differences in level of ferritin-associated transport proteins in both breast and prostate cancer; in addition to differences in level of Epithelial-Mesenchymal Transition related proteins in superficial versus infiltrative bladder cancer. Became comfortable with R and certain heavy metal metabolism pathways.</p> |

## PUBLICATIONS/PRESENTATION

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| MAR. 2015 | <p><b>Experimental Biology</b><br/><a href="#">Iron Metabolism and Prostate Cancer Aggressiveness: A Meta-Analysis of Gene Expression Micoarray Datasets</a></p>                       |
| OCT. 2015 | <p><b>University of Illinois Cancer Center Research Forum</b></p>  |
| MAR. 2016 | <p><b>United States and Canadian Academy of Pathology Annual Meeting</b><br/><a href="#">Meta-Analysis of Mesenchymal Characteristic-Related Gene Expression in Bladder Cancer</a></p> |