

Curriculum Vitae

Ebrahim Aboualizadeh

University of Rochester

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Senior Research Associate, University of Rochester Medical Center

Physics PhD, University of Wisconsin–Milwaukee

Research interests: Applications of mid-infrared spectroscopic imaging and multivariate data analysis

Quantum Field Theory, Razi University, Kermanshah, Iran

PhD Advisor: Dr. Amir Takook

Research interests: Lorentz invariance of the scalar field from Minkowski space to de Sitter spacetime, Quantum State Physics, Shahid Chamran University, Ahwaz, Iran

Research interests: Raman microspectroscopy, spectrochemical imaging, and 3D imaging analysis; bioanalytical methods, pattern recognition, image processing; multivariate image analysis and chemometric tools; Machine Learning algorithms

Publications and conference presentations

Supervised 10 junior research staff and lab mates

Poster Presentation Award sponsored by the NIH/NIBIB/NCBI group in Biology” workshop (August 2013), Midwest microscopy award

award sponsored by “Midwest microscopy and microanalysis society

Student Award, Physics Department, University of Wisconsin-

Student Award selected by Iran's National Elites Foundation, Tehran,

Award for the highest GPA in master’s program (October 2009)

Publications

Unger, M. Giordano, C.J. Hirschmugl, “In vivo time-resolved spectroscopy of *S. aureus* cell,” in preparation (2017).

Unger, A. Schofield, M. Unger, N. Sheibani, C.J. Hirschmugl, “Temperature-dependent changes in the structure of mouse retina, under press in Scientific Reports (2017).

Unger, D.S. Masson-Meyers, J.T. Eells, C.J. Hirschmugl, C.S. Enwemeka, “Effect of selected disinfectants against methicillin-resistant *Staphylococcus aureus*,”

Unger, P. He, D.C. Albarado, C.D. Morrison and C.J. Hirschmugl, “Time-resolved infrared microspectroscopy, *Frontiers in Endocrinology*, 5:121 (2017).

Unger, Sorenson, R. Sepehr, N. Sheibani, C.J. Hirschmugl, “Retinal changes in diabetes revealed by FTIR widefield imaging: Towards diabetes pathogenesis”, *Analyst* (2017).

Unger, D.S. Masson-Meyers, J. Eells, C.S. Enwemeka, and C.J. Hirschmugl, “Spectroscopic tools to reveal the interaction between blue light (470nm) and DNA”, *Journal of Photochemistry and Photobiology. B: Biology*. **167**. 150-157 (2017).

zadeh, V.V. Bumah, D.S. Masson-Meyers, J. Eells, C.S. Enwe and computational analysis in characterizing the mechanism of *S. aureus*”, The great **SCI**entific e**X**change (**SCIX**) (September 2013), Stoughton, WI.

gl, **E. Aboualizadeh**, “Characterizing treated methicillin-resistant *S. aureus*”, IAC meeting, (June 2016), Montreal, CA.

deh, C.M. Sorenson, R. Sepehr, M. Ranji, N. Sheibani, C.J. Hird and C. Hird, “Characterizing treated methicillin-resistant *S. aureus*”, 8th International Workshop on Infrared Microscopy and Spectroscopy, Brookhaven National Lab, Long Island, NY.

deh, C.M. Sorenson, R. Sepehr, M. Ranji, N. Sheibani, C.J. Hird and C. Hird, “Characterizing treated methicillin-resistant *S. aureus*”, 8th International Workshop on Infrared Microscopy and Spectroscopy, Brookhaven National Lab, Long Island, NY.

brahim Aboualizadeh, C.M. Sorenson, R. Sepehr, M. Ranji, N. Sheibani, C.J. Hird and C. Hird, “Characterizing treated methicillin-resistant *S. aureus*”, 8th International Workshop on Infrared Microscopy and Spectroscopy, Brookhaven National Lab, Long Island, NY.

adeh, M. Unger, M.J. Nasse, S. Ratti, C. Olivieri, M. Giordano, “Characterizing treated methicillin-resistant *S. aureus*”, 8th International Workshop on Infrared Microscopy and Spectroscopy, Brookhaven National Lab, Long Island, NY.

deh, M. Unger, M.J. Nasse, S. Ratti, C. Olivieri, M. Giordano, “Characterizing treated methicillin-resistant *S. aureus*”, 8th International Workshop on Infrared Microscopy and Spectroscopy, Brookhaven National Lab, Long Island, NY.

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