

CURRICULUM VITAE of

Name: Javeed SHAIKH MOHAMMED

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EDUCATION

Ph.D. in Engineering, May 2006, Louisiana Tech University, Ruston, United States of America.

M.S. in Electrical Engineering, November 2002, Louisiana Tech University, Ruston, United States of America.

B.Tech. in Electrical and Electronics Engineering, June 2000, Sri Venkateswara University, Tirupati, India.

RESEACH AREAS

Nanostructured biointerfaces, Hydrogels, Tissue Engineering, Microfluidics.

EMPLOYMENT

- **February 2010 – present:** Assistant professor, King Saud University, College of Applied Medical Sciences, Department of Biomedical Technology.
- **September 2008 – July 2009:** Postdoctoral Research Associate, University of Wisconsin at Madison, College of Engineering, Department of Biomedical Engineering.
- **November 2006 – September 2008:** Postdoctoral Research Associate, University of Illinois at Chicago, College of Engineering, Department of Bioengineering.

TEACHING

1. **General:** Taught four **undergraduate** courses at King Saud University.
2. **Undergraduate Courses taught at King Saud University**

BMT313: Biomedical Electronics III (Operational Amplifiers)

BMT314: Biomedical Electronics IV (Digital electronics)

BMT336: Optical Biomedical Instrumentation

BMT413: Biomedical Electronics V (Microprocessors)

PUBLICATION

1. Journals (last 5 articles regardless of the dates)

- A.F. Adewola, D. Lee, T.A. Harvat, **J. Shaikh Mohammed**, D.T. Eddington, J. Oberholzer, Y. Wang, "Microfluidic perfusion and imaging device for multi-parametric islet function assessment," *Biomedical Microdevices* (in press) 2010.
- **J. Shaikh Mohammed**, W.L. Murphy, "Bioinspired Design of Dynamic Materials," *Advanced Materials*, vol. 21, no. 23, pp. 2361-2374, 2009.
- W.J. King, **J. Shaikh Mohammed**, W.L. Murphy, "Modulating Growth Factor Release from Hydrogels via a Protein Conformational Change," *Soft Matter*, vol. 5, no. 12, pp. 2399-2406, 2009.
- **J. Shaikh Mohammed**, M.J. McShane, "Supported Nanocomposite Membranes: Bridging Microtechnology with Nanotechnology," *Journal of Nanoscience and Nanotechnology*, vol. 9, no. 5, pp. 2965-2969, 2009.
- **J. Shaikh Mohammed**, Y. Wang, T.A. Harvat, J. Oberholzer, D.T. Eddington, "Microfluidic Device for Multimodal Characterization of Pancreatic Islets," *Lab on a Chip*, vol. 9, no. 1, pp. 97-106, 2009.

2. Conferences (last 5 conferences regardless of the dates)

- **J. Shaikh Mohammed**, Y. Wang, T.A. Harvat, J. Oberholzer, D.T. Eddington, "Microfluidic Device Applied to Multiple Functional Assays for Islets: New Method for Pretransplant Islet Quality Assessment", The 12th International Conference on Miniaturized Systems for Chemistry and Life Sciences, MicroTAS 2008, San Diego, CA, October 12 - 16, 2008.
- H.H. Caicedo, **J. Shaikh Mohammed**, C.P. Fall, D.T. Eddington, "Localized Brain Slice Chemical Stimulation Using a Microfluidic Device and Off-The-Shelf Perfusion Chamber", The 12th International Conference on Miniaturized Systems for Chemistry and Life Sciences, MicroTAS 2008, San Diego, CA, October 12 - 16, 2008.
- Y. Wang, **J. Shaikh Mohammed**, T.A. Harvat, S. Wang, M. Qi, D.T. Eddington, J. Oberholzer, "Real-Time Comprehensive Human Islet Assessment In Vitro Using Fluorescence Imaging and Microfluidic Perfusion System," Invited Presentation, XXII International Congress of The Transplantation Society, Sydney, Australia, August 14, 2008.
- **J. Shaikh Mohammed**, Y. Wang, T.A. Harvat, J. Oberholzer, D.T. Eddington, "Microfluidic Device for Multiple Functional Assays to Improve Pretransplant Islet Quality Assessment", BMES Fall Meeting, St. Louis, MO, October 2-4, 2008.
- H.H. Caicedo, **J. Shaikh Mohammed**, C.P. Fall, D.T. Eddington, "Microfluidic Substrate Integrated with a standard Electrophysiology Set-Up", BMES Fall Meeting, St. Louis, MO, October 2-4, 2008.