

CURRICULUM VITAE of

Dr. Javeed SHAIKH MOHAMMED

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EDUCATION

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

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

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

ACADEMIC EXPERIENCE

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

HONORS AND AWARDS

Outstanding Graduate Student Award, Institute for Micromanufacturing, 11/2002.

Best Poster Award, Biomedical Engineering Research Day, 5/2005.

Best Poster Award, Louisiana Materials and Emerging Technologies Conference, 12/2005.

SERVICE ACTIVITIES

Manuscript Peer Review

Biomacromolecules (ACS)

International Journal of Nanomedicine (DovePress)

Other Peer Review

2011 Blackboard Exemplary Course Program

2011 MECBME: 1st Middle East Conference on Biomedical Engineering

Committee Member

Scientific Research & Community Service Committee, Biomedical Technology, KSU

Quality & Academic Accreditation Committee, Biomedical Technology, KSU

Graduate Studies Committee, Biomedical Technology, KSU

Exams & Schedules Committee, Biomedical Technology, KSU

PUBLICATIONS

Journals

- J. Shaik, **J. Shaikh Mohammed**, M.J. McShane, D.K. Mills, “Growth and Behavior of Bovine Articular Chondrocytes on Nanoengineered Surfaces – Part I”, International Journal of Nanotechnology (Special Issue of IJNT dedicated to nanomedicine) (**In Press**).

- 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*, vol. 12, no. 3, pp. 409-417, 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.

Conferences

- 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, 9th Joint Meeting of the American-Society-of-Transplant-Surgeon/American-Society-of-Transplantation 2009, Boston, MA, May 30-June 03, 2009.
- **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.
- **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.

PROFESSIONAL DEVELOPMENT

- ‘Preparatory week teaching’ workshop, Deanship of Skills Development, KSU
- 2nd stem cell workshop, Stem Cell Unit, College of Medicine, KSU
- ‘New faculty training’ workshop, Deanship of Skills Development, KSU
- ‘The role of learning & teaching centers in the development of university education’ workshop, CELT, KSU
- ‘Opportunities of success in obtaining a patent’, IPTL, KSU
- ‘Life cycle management system of e-learning’, Deanship of e-learning and distance learning, KSU
- ‘Smart classrooms and interactive whiteboard’, Deanship of e-learning and distance learning, KSU