

Dr. Deepak Kukkar



Permanent Address

4 - E - 23, Jawahar Nagar,
Sri Ganganagar,
Rajasthan – 335001
India
E-mail: deepakukkar@gmail.com
Mobile: +91-9357332936

Career Objectives

Being a young, energetic and confident person, I firmly believe in deep understanding of the subject and to learn and apply the knowledge for personal development. I envision myself as a determined member of a team dedicated profoundly to research and teaching.

Current Position

Working as Assistant Professor in the Department of Nanotechnology, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab.

Research Interest

- ✓ Metal Organic Frameworks for Environmental Remediation & Drug Delivery Applications.
- ✓ Synthesis of metallic/semiconductor nanoparticles.
- ✓ Polymer hollow particles for drug delivery.

Academic Profile

PhD (Biotechnology) in April 2014 from Department of Biotechnology, Panjab University, Chandigarh, India. Title of my thesis was “Synthesis and Characterization of Polymer Microreactors for Nanoparticle and Drug Encapsulation”. The focus of my research has been synthesis & applications of polymer microreactors for molecular sensing using quantum dots and for drug delivery.

M.Sc. Biotechnology with first class (62%) in July 2005 from Panjab University, Chandigarh (India). Dissertation work undertaken was “Examining the anti fungal activity of medicinal plants”.

B.Sc. Biology in July 2003 with 69% from S.G.N. Khalsa College, Sri Ganganagar (India), with Chemistry, Botany and Zoology as major subjects.

Papers Published in International Journals

- **Deepak Kukkar**, Inderpreet Kaur, Jagtar Singh & Lalit M. Bharadwaj. Plasticizers Induced Formation of Microcapsules from Freeze Dried Polystyrene Microreactors. *International Journal of Polymeric Materials & Polymeric Biomaterials* 2014 64 (8) 385-391. (**Impact Factor 2.78**)
- Parveen Kumar, **Deepak Kukkar**, Akash Deep, Sukesh C. Sharma, Lalit M. Bharadwaj. Synthesis of mercaptopropionic acid stabilized CdS quantum dots for bioimaging in breast cancer *Adv. Mat. Lett.* 2012, 3(6), 471-475. (**Impact Factor 1.93**)
- **Deepak Kukkar**, Harsimran Kaur, Inderpreet Kaur, Jagtar Singh & Lalit M Bharadwaj Immobilization of Quantum Dots Encapsulated Polystyrene Microcapsules for Multianalyte Sensing *Adv. Sci. Lett.* 2012 17, 49-55. (**Impact Factor 1.256**)
- **Deepak Kukkar**, Manil Kukkar, Inderpreet Kaur, Jagtar Singh and Lalit M Bharadwaj Synthesis of Poly(ϵ -caprolactone) microreactors by micro-volcanic rupture of freeze dried microspheres. *Polymeric Plastics Technology & Engineering*. 2012 51 (12). pp. 1275-1281. (**Impact Factor 1.481**)
- Harsimran Kaur, Suresh Kumar, **Deepak Kukkar**, Inderpreet Kaur, Kashmir Singh and Lalit M Bharadwaj. Transportation of Drug-(Polystyrene Bead) Conjugate by Actomyosin Motor System. *Journal of Biomedical Nanotechnology*. 2010 6, 1-8. (**Impact Factor 7.58**)
- Preeti Kush, **Deepak Kukkar**, Parveen Kumar, Amit Sharma, Akash Deep, Inderpreet Kaur, Ranjit Singh and Lalit M Bharadwaj Development and Evaluation of Novel Biodegradable Docetaxel Loaded Microspheres of Poly (D, L-Lactide-Co-Glycolic acid) and Poly (ϵ -Caprolactone) for Controlled Drug Delivery *Journal of Pharmaceutical Research & Clinical Practice*. 2011; 1(3):12-35

Papers Published in Conference Proceedings

- **Deepak Kukkar**, Inderpreet Kaur, Jagtar Singh and Lalit M Bharadwaj. Study of encapsulation of Quantum Dots in freeze dried polystyrene and poly (ϵ -caprolactone) microspheres. *World Academy of Science, Engineering and Technology*, 76, 778-780, (2011).
- Deep Kamal Kaur Randhawa, Inderpreet Kaur, **Deepak Kukkar**, M.L. Singh and Lalit M Bharadwaj DNA base Adenine as Resonant Tunneling Diode. *Biomedical Applications of Nanostructured Materials*, 351-356, (2010).

Conferences and Workshops

- **Orientation Course**
Attended 104th General Orientation Course conducted by UGC-Academic Staff College, Panjab University, Chandigarh from November 25th-December 22nd 2014.
- **Oral Presentation:**

- **Deepak Kukkar**, Inderpreet Kaur, Jagtar Singh and Lalit M Bharadwaj (2011) Study of Encapsulation of Quantum dots in freeze dried Polystyrene and Poly (ϵ -caprolactone) microspheres. (International Conference on Biotechnology and Nanotechnology, April 27-29, 2011, Venice, Italy).
- **Deepak Kukkar**, Gagandeep Kaur, Harsimran Kaur, Suresh Kumar, Inderpreet Kaur, Parveen Kumar, Jagtar Singh and L M. Bharadwaj (2009). Preparation and characterization of polystyrene microreactors for drug delivery and diagnosis application. (Workshop cum conference on Nanoscience and nanotechnology; Ansal Institute of technology, Gurgaon, India, October 12-16th, 2009).
- **Poster Presentation:**
 - **Deepak Kukkar**, Inderpreet Kaur, Jagtar Singh and Lalit M Bharadwaj Synthesis of polymer microreactors by freeze drying and encapsulation of quantum dots. 4th Bangalore Nano, December 07-09th, 2011, Hotel Lalit Ashok, Bangalore, India.
 - **Deepak Kukkar**, Harsimran Kaur, Suresh Kumar, Inderpreet Kaur and L M. Bharadwaj (2008). Nanocalorimetric Study of Actomyosin Motor System. National Review and Co-Ordination Meeting, March 12-14, 2009, NANOMISSION DST, Kolkata.
 - Suresh Kumar, Harsimran Kaur, **Deepak Kukkar** Inderpreet Kaur and Lalit M. Bharadwaj (2008). Transport of Quantum Dots Using Biomolecular Motors for Diagnostic Applications. (NANOSENSORS 2008: National Workshop on Nano Sensors & Devices 22-23 December, IIT DELHI).
 - Attended “**Nanotechnology Conclave 2010**” held on April 11-12 at Taj palace, New Delhi organized by CII, India.

Awards and Scholarship

- **Senior Research Fellowship (CSIR-SRF)** in Life Sciences from University Grants Commission (UGC), New Delhi, India from August 06, 2009- July 20, 2012.
- **Junior Research Fellowship (CSIR-JRF)** from University Grants Commission (UGC), New Delhi, India from August 06, 2007 – August 05 2009.
- **International Travel Grant from Department of Science and Technology (DST)** in April 2011 to attend international conference in Venice, Italy.

Professional Experience

- July 2012 onwards working as Assistant Professor in the Department of Nanotechnology, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab.
- August 2007 – July 2012 worked as Research Fellow in the domain of Nanobiotechnology at Central Scientific Instruments Organisation, Sector- 30-C,

Chandigarh. My work was primarily focused on synthesis & application of Polymer Microreactors for drug delivery & bioimaging.

- July 2006 – April 2007, worked as lecturer in Department of Biotechnology, M.D. P.G. College, Sri Ganganagar, Rajasthan, India.
- August 2005 - February 2006, worked as Research Assistant at the Post Graduate Institute of Medical Education and Research (PGIMER), Chandigarh, India.

Personal Information

Sex	Male
Date of Birth	December 08, 1980.
Marital Status	Married
Nationality	Indian
Languages Known	English, Hindi, Punjabi
Contact No.	91-9357332936

References

Dr. Lalit M. Bharadwaj

Director
Amity Institute of Nanotechnology,
Noida,
Uttar Pradesh, India
Email: lalitmbharadwaj@hotmail.com

Dr. Jagtar Singh

Assistant Professor
Department of Biotechnology
Panjab University
Sector 14, Chandigarh, India
E-mail: jagtar@rediffmail.com

I hereby declare that everything mentioned in my curriculum vitae is true and best to my knowledge.

Sincerely



Deepak Kukkar