

CV (Dr. Nishima)

1. **Name and full correspondence address :** Dr. Nishima, Assistant Professor, Department of Applied Sciences, University Institute of Engineering & Technology (U.I.E.T.), Panjab University, Chandigarh
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3. **Institution:** Panjab University, Chandigarh
4. **Date of Birth:** 1/8/1980
5. **Gender (M/F/T):** F

**6. Academic Qualification (Undergraduate Onwards):**

S . No	Degree	Year	Subject	University/Institution
1.	B.Sc. (Hons.)	1999-2002	Chemistry	Panjab University, Chandigarh
2.	M.Sc. (Hons.)	2002-2004	Chemistry	Panjab University, Chandigarh
3.	Ph.D.	2005-2010	Chemistry (Nanotechnology)	Panjab University & Institute of Microbial Technology (IMTECH)
4.	Post -Doc	2010-2011	Material Science and Engineering	Nanyang Technolglcal University (NTU), Singapore

**7. Work experience (in chronological order).**

S.No	Positions held	Name of the Institute	Duration
1.	Assistant Professor (Regular)	UIET, Panjab University, Chandigarh	2015-current
2.	Assistant Professor (Temp)	Panjab University, Chandigarh	2012-15

3.	DST-INSPIRE Faculty	Panjab University, Chandigarh	2012-15
4.	Project Scientist	National Agri-Food Biotechnology Institute, Mohali	2012
5.	Post-doctoral Research Fellow	Nanyang Technological University, Singapore	2010-11

#### 8. Professional Recognition/ Award/ Prize/ Certificate, Fellowship

Name of Award	Awarding Agency	Year
Prof U.C. Pant Memorial award in chemistry	Indian Chemical Society	2012
DST INSPIRE faculty award (IFA12-CH-52) in chemistry	DST-INSIA	2012
International fellowship	Northwestern University, Illinois, USA	2008
International fellowship	from Nanyang Technological University (NTU), Singapore	2007
Most cited paper award	Elsevier, Netherlands	2008

#### 9. International publications: 42

#### 10. Books/Reports/Chapters/General articles etc. 2

#### 11. other Information

1. Research experience of over 13 years in the field of Nanoscience and nanotechnology.
2. Post-doctoral training at Nanyang Technological University, Singapore in the field related to the project.
3. Invited and completed two research programs as exchange student during PhD tenure in Materials science and nano-biotechnology
  - 2013: **Prof U.C. Pant Memorial award** in chemistry for the year 2012 by Indian Chemical Society
  - 2012: **DST INSPIRE Faculty award** in chemistry for the project entitled “Gold nanoparticle based detection of pesticides in food and water.”

- 2011: Paper selected as the “*most cited article in 2008-2009 by Elsevier, Amsterdam, The Netherlands*” Nishima Wangoo *et al* Journal of Colloid and Interface Science 323 (2008) 247
- 2010: **First prize** in oral presentation at Chandigarh Science Congress (CHASCON)
- 2009: **First prize** in **graduate seminar series** in Panjab University
- 2009: **Second Prize** in CHASCON-2009 for oral presentation titled “Synthesis, characterization and bioconjugation of gold nanoparticles for immunodiagnostic applications”
- 2008: **Second Prize** in CHASCON-2008 for oral presentation titled “Facile synthesis of gold nanoparticles for use as a bioprobe
- 2008: Award of senior research fellowship (SRF) from CSIR
- 2007: Award of UGC meritorious fellowship (JRF) in chemistry
- 2005: **Qualified National Eligibility Examination (NET)** in Chemical Sciences
- 2004: **Qualified ALL INDIA Graduate Aptitude Test for Engineering (GATE)** in Chemical Sciences Conducted by Indian Institute of Technology

## 12. Membership of Societies

Life member of Chemical Research Society of India-CRSI

## 13. Invited Lectures

Invited lecture at Osaka University, Japan in 2015

Invited lecture at 50<sup>th</sup> Annual Convention of chemists by Indian Chemical Society in 2012.

Invited lecture on green chemistry at UGC sponsored national level seminar at GHG Khalsa college, Ludhiana in 2012 and 2015.

## 14. **Research Support:**

Research Projects

S I No.	Title of Project	Funding Agency	Status
1.	Gold nanoparticles based detection of pesticides in food and water	DST, New Delhi	Completed
2.	Design, Synthesis and applications of nanoparticles as bioprobes	UGC, New Delhi	Completed
3.	Quantum dot based detection of food borne toxins	DBT, New Delhi	Completed
4.	Nanoparticle Mediated Targeting of Bacteria using Cell Penetrating Peptides	DST-SERB, New Delhi	Completed
5.	Self Assembled amino acids as potential antimicrobial traps	SERB- Early career	Ongoing
6.	Thyrotropin Releasing Hormone (TRH) and TRH-Analogues Encapsulated Biodegradable Polymeric Nanoparticles as Intra-nasal Anti-epileptic Agents	CSIR	Ongoing

7.	Enhancement of the immunogenicity of L91 lipopeptide against Mtb using peptidomimetic approach and conjugation of selected lipopeptides with anti-TB drugs	SERB	Ongoing
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