

Statement of Research Achievements, if any, on which any Award has already been Received by the Applicant.

I come from the place where quality **education has not been easily accessible** and my schooling had been taken place at grass-root level of Indian society in **my village**. My **father was a cook in a hotel and to support the family my mother worked as maid**. With hope and dream of my parent in my eye, I continually kept on putting my best efforts towards my career. **Today, I am 40-year-old (Date of Birth: 15th August 1981) and I dedicate all my achievements to my family.**

I am a formulation researcher with > 10 years of teaching and research experience (gained @ India, USA, UK, Malaysia), worked as **Postdoctoral Fellow-II (UT Southwestern Medical Centre, Dallas, Texas, USA; Supervisor: Prof. X Sun)**, **Postdoctoral Fellow-I (University of Hawaii, Hilo, Hawaii, USA; Supervisor: Prof. M Chougule)** with nanotechnology, nanomedicine in diagnosis and therapy as a core area of research.

- Recipient of **Commonwealth Split-site Fellowship (University of Central Lancashire, Preston, UK; Supervisor: Prof. Antony D' Emanuele; Funded by British council-UK)**
- Worked with F & D, **Ranbaxy Pharmaceuticals, India** at its Dewas, Plant (MP, India).
- Awarded with CSIR-**SRF** (Senior research fellowship) by CSIR-New Delhi, India
- AICTE-**JRF** (Junior research fellowship)
- National Doctoral Fellowship (**NDF**), by AICTE, New Delhi, India.
- Awarded with one of the prestigious IRISH Research Council Government Postdoctoral (**IRISH-PDF**) Award by the by Government of Ireland. **The highlights of my research contributions are outlined below in three major sections:**

Recently, Awarded **Top 2% researcher** in the field of **Pharmacy and Pharmacology**, by **Stanford University, USA**

THE TIMES OF INDIA, AHMEDABAD
THURSDAY, NOVEMBER 5, 2020

GUJARAT

Gujarat scientists bag global honour

Around 12
Selected In
World's Top
2% List

Prashant Rupera &
Parth Shastri | TNN

Vadodara: A dozen-odd scientists from Gujarat have been ranked among top 2% global scientists in their respective fields in the report released by the prestigious Stanford University.

The rankings are based on a database of over 1.50 lakh scientists. So far, there was no large-scale database that ranks all the most cited scientists in each and every scientific field to a sufficient ranking depth. The report has referred largely to Scopus, a database, which ranks scientific journals and gives a citation index.

The scientists are from Sardar Patel University (SPU).

STANFORD REPORT

- Number of research papers published by the scientist
- H-index, a rough measure of scientist's standing in his/her fraternity
- Rankings based on database of over 1.5L scientists
- Number of times an expert is cited

RAKESH TEKADE | NIPER AHMEDABAD

SUBJECT AREA |
PHARMACOLOGY & PHARMACY

The associate professor is a formulation researcher with teaching and research experience in the US, the UK and Malaysia along with other institutions in India. His research focuses on translational nanomedicine, nanoformulation design & development and bio-compatible targeted drug delivery system in diseases such as cancer and diabetes. He is the principal investigator in two DST-funded projects in pharmacology and has over 110 peer-reviewed publications to his credit. NIPER-A officials said that he's among the youngest of the researchers from India in the field of pharmacy on the list.



We are extremely proud that as many as three scientists from our university have featured in this report which has covered 27 scientific fields and 176 sub-fields

Shirish Kulkarni
| SARDAR PATEL
UNIVERSITY, VC



N V SASTRY | DEPT OF CHEMISTRY, SPU

SUBJECT AREA |
CHEMICAL
ENGINEERING

His area of research is thermophysical studies of non-reacting non-associated chemical systems. His contribution in this area is highly useful in designing the process parameters for reactor design and process control. The other area of his research is colloidal aspects of soft matter which has uses in designing efficient drug carrier and release systems. He is the founder head (in-charge) Center for Interdisciplinary Studies in Science and Technology. He has successfully completed 11 major research projects funded by national agencies. He led his team to establish high end sophisticated equipment at the department and the university campus.



Scientist Stream Institute

Y K Agrawal	Analytical Chemistry	GFSU
Pal GP	Anatomy & Morphology	MPSCM, Jamnagar
Sanjib Kumar Karmee	Biotechnology	SPRERI
Datta Madamwar	Biotechnology	SPU
N V Sastry	Chemical Engg	SPU
L M Manocha	Materials	SPU
Vinod K Shahi	Chemical Engg	CSMCRI
Shantilal Oswal	Chemical Engg	VNSGU
Pratap Bahadur	Chemical Physics	VNSGU
Sudhir Jain	Civil Engg	IIT, Gandhinagar
Subhash Shah	Energy	PDP
Priyadarshi Shukla	Energy	Ahmedabad University
NK Bansal	Energy	CEPT University
Hitesh Panchal	Energy	GEC, Patan
Sanjeev Gupta	Physics	St. Xavier's College, Ahmedabad



My research focuses on translational nanomedicine, nanoformulation design and development, and evaluation of different biocompatible nanoparticle-based platform technologies for targeted drug, protein, RNAi delivery, and imaging agents.

- **EDITED 08 Books (Publisher: ELSEVIER), 05 invited editorial articles, and 05 Patent applications.**
- **First author of an article in [Chemical Reviews \(ACS; 2021 Impact Factor 60.5\)](#).**
- **Published >250 Publications** (ACS, Elsevier, Springer, Taylor&Francis and Wiley, Bentham, etc.)
- **Total citations > 6800; H-index of 46 (Cumulative Impact Factor: 450.10).**



Dr. Rakesh K. Tekade (Associate Professor: NIPER-A; Commonwealth Fellow-UK)

[FOLLOWING](#)

NIPER-A, IIT-Jammu, UTSouthwestern Texas (USA); University of Hawaii (USA), UCLan (UK), IMU-Malaysia

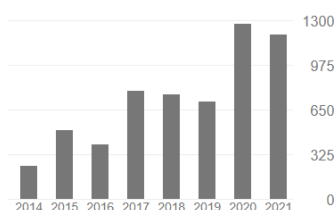
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Citations	6778	5163
h-index	46	40
i10-index	110	108



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<input type="checkbox"/>	TITLE	CITED BY	YEAR
<input type="checkbox"/>	Dendrimers in oncology: an expanding horizon RK Tekade, PV Kumar, NK Jain Chemical reviews 109 (1), 49-87	527	2009
<input type="checkbox"/>	Nanocarrier mediated delivery of siRNA/miRNA in combination with chemotherapeutic agents for cancer therapy: current progress and advances NS Gandhi, RK Tekade, MB Chougule Journal of Controlled Release 194, 238-256	292	2014
<input type="checkbox"/>	Employment of enhanced permeability and retention effect (EPR): Nanoparticle-based precision tools for targeting of therapeutic and diagnostic agent in cancer D Kalyane, N Raval, R Maheshwari, V Tambe, K Kalia, RK Tekade Materials Science and Engineering: C 98, 1252-1276	225	2019
<input type="checkbox"/>	Pulmonary toxicity of carbon nanotubes: a systematic report J Kavat, V Gaibhiv, RK Tekade, NK Jain	212	2011

I have industrial experience in developing modified release solid dosage forms while working with Ranbaxy Laboratories (R&D division).

Recipient of several acclaimed awards, including Commonwealth Fellow- UK (2009), National Doctoral Fellow (AICTE-NDF), IRISH Government Postdoctoral Award (IRISH-PDF), and CSIR Senior research fellowship (CSIR-SRF), India and Junior Research Fellowship, India (**AICTE-JRF**) award. I have proven experience in new project development and grant submission for NIH-USA (R01, R21, R03, R15, SC3), Department of Defense, USA (DOD), and NSF-USA.

- Mentored: **02 Postdoc** trained (funded by DST-SERB and ICMR)
- **02 PhD thesis awarded** under my mentorship + **07 Ph.D in progress**
- **Guided 50 Masters, 10 B. Pharm/ Biomed. Science Dissertations.**

Serving as **Principal Investigator for two DST funded projects (39 Lakhs and 25 lakhs, respectively)**, and awarded **Fundamental research Grant, Malaysia (133,000 Malaysian Ringgit; Role-PI)**. The research goal is to expand the research program via extramural funding to translate the preclinical findings to clinical setup. Current research involves developing nanoparticle or microparticle-based drug, protein, and siRNA delivery for treatment of cancer, diabetic nephropathy and arthritis, and cerebral stroke disorder and medical devices for laser therapy of cancer.

- Teaching and Academic activities: I have direct experience teaching various modules for Ph.D., Masters & Bachelors students (@ **Universities based in USA, UK, Malaysia, & India**). I handled the subjects as module coordinator and was actively involved in curriculum review and curriculum design. I have developed one postgraduate module as a module coordinator for the Master's program. I have experience actively working in various institutional committees viz: Library committee, Scientific Research committee, Vetting Committee, Purchase Committee, Hostel Committee, etc.

- Professional Service: Serving/served as a **member** on various **Institution committees**, including the Board of Studies and Research, Research advisory committee, Equipment purchase committee, Senate committee, Placement committee, Grant reviewer for the FONDECYT FUNDS (**Chile**), National Science Centre (Poland); French National Research Agency (ANR) **France**, Khwarizmi International Award (KIA) (**Iran**). Thematic Editor for international journals; an **Editorial Board member** for five international journals; and a **referee** for >30 reputed international journals.

- Due to word and size limitation, only few citations are herewith enclosed
- Other certificates and award letters may be provided.



Dr. Rakesh K. Tekade

Associate Professor- NIPER-Ahmedabad