

## Resume

### Vinod K Singh

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### Personal

Date & Place of Birth	September 9, 1959; Azamgarh (U.P.)
Nationality	Indian
Marital status	Married

### Education

M.Sc.	Banaras Hindu University, Varanasi	1980
Ph.D.	Multi-Chem Research Centre, Nandesari (Degree: M.S. University; Supervisor: Dr Sukh Dev)	1986
Post-doctoral	University of Calgary, Canada	1985-1986
	University of British Columbia, Canada	1986-1987
	<u>Harvard University</u> , U. S. A. (Advisor: Professor E. J. Corey, Nobel laureate)	1987-1990

### Research Interests

Synthetic Organic Chemistry: Design of New Catalysts/Ligands for Enantioselective Reactions and Synthesis of Biologically Important Natural Products

### Academic Positions

Professor	IIT Kanpur	13.09.2001 – Present
Associate Professor	IIT Kanpur	24.05.1997 – 12.09.2001
Assistant Professor	IIT Kanpur	26.12.1990 – 23.05.1997
Senior Scientist	Neurogen, USA	01.03.1990 - 15.12.1990

### Administrative Positions

Founding Director	IISER Bhopal	12.06.2008 – 04.09.2018
Director ( <i>additional charge</i> )	MANIT Bhopal	13.05.2017 – 24.07.2017
Mentor Director	IIIT Bhopal	13.05.2017 – 24.07.2017
Mentor Director	IISER Berhampur	12.11.2015 – 09.10.2017
Director ( <i>additional charge</i> )	SPA Bhopal	28.07.2014 – 26.10.2015
Chairman, BoG	NITTTR Bhopal	01.05.2009 – 24.10.2009
Director ( <i>additional charge</i> )	SPA Bhopal	06.10.2008 – 29.07.2009

### ***Awards & Honors***

- S. Ranganathan Memorial Medal by INSA (2018)
- Samman Patra by UP Government (2018)
- **Padma Shri** (2014)
- CRSI Silver Medal (2014)
- Distinguished Alumnus Award, BHU (2012)
- DSc (*Honoris Causa*), Jabalpur University (2012)
- JC Bose Award (2011)
- Goyal Prize (2011)
- Pt Jawahar Lal Nehru National Award by MP Govt (2010)
- J.C. Bose fellowship by DST (2009-2023)
- Umang Gupta Chair Professor, IIT K (01.06.2007 – 30.05.2010)
- Vigyan Ratna Award of U.P. (2006)
- Ramanna Fellowship by DST (2006-2009)
- Bhagyatara Award by Panjab University (2006)
- **Shanti Swarup Bhatnagar Prize** (2004)
- CRSI Bronze Medal (2003)
- Rajib Goyal Prize (2002)
- **Swarnajayanti Fellowship Award** (1998)

### ***Academy Fellowship***

- Fellow, Indian National Science Academy (FNA)
- Fellow, Indian Academy of Sciences (FASc)
- Fellow, National Academy of Sciences (FNASc)
- Fellow, The World Academy of Sciences (FTWAS)
- Fellow, Royal Society of Chemistry (FRSC)

### ***Editorial Board of Journals***

- Editor, *Tetrahedron Letters* (1.9.2014 – 31.12.2019)
- Member, Editorial Advisory Board, *Org. Lett.* (1.4.2018 – 31.12.2020)
- Member, Editorial Advisory Board, *J. Org. Chem.* (1.4.2018 – 31.12.2021)
- International Advisory Board of the *Asian J. Org. Chem.* (2012 - present)
- Associate Editor, *Synthetic Communications* (2010 - 2014)

### ***Current Professional Services***

- Member, Planning & Monitoring Board, IIS University Jaipur (1.7.2018 – 30.6.2020)
- Member, Governing Council, UGC-DAE Consortium for SR, Indore (28.6.2018 – 27.6.2021)
- Member, Standing Committee, UPE of UGC (17.5.2018 – present)
- Member, Council, JNCASR Bangalore (1.4.2018 – 31.3.2022)
- Convenor, INSA Sectional Committee III (2017 - 2019)
- Member, Executive Council, Central University of Kerala (2016 – 2019)
- Chairman, Project Advisory Committee, SERB, New Delhi (2015 – 2018)
- Member, Executive Council, University of Jammu (2015 – 2018)
- Vice President, CRSI (2014 - 2019)

- Member, AIIMS Bhopal Council (2013 - 2018)
- Member, Scientific Advisory Committee, CBMR, Lucknow (2012 - 2019)

### ***Past Professional Services***

- Non-Executive Director, MPMK Vidyut Vitran Company Ltd. (2010 - 2018)
- Member, Executive Council, Sharda University, Greater Noida (2009 – 2017)
- Member, Executive Council, Dr Harisingh Gaur Sagar University (2015 – 2016)
- Member, INSA Council (2014 - 2016)
- Vice President, CRSI (2014 - 2017)
- Member, Research Council, AMPRI Bhopal (2013 - 2017)
- Member, Research Council, IICT Hyderabad (2010 - 2016)
- **Member, Scientific Advisory Council to the PM** (2009-2014)
- Visitors nominee, Central University of Bihar (2013 - 2015)
- Member, Sectional Committee, IAS Bangalore (2010 - 2012)
- President, Chemical Sciences Section, Indian Science Congress (2010 - 2011).
- Member, BoG of IIT Guwhati (2008 – 2011)
- Member, Task Force on Health & Education, M.P. Government (2008-2009)
- Chairman, IIT K REACH Symposium (2008)
- Member, Technical Advisory committee for TDDP of DSIR, Gov of India (2008).
- Convener, Education Policy Committee, IIT Kanpur (2007-2008)
- Member, Selection Board for Recruitment (Director, faculty & scientists) at various places.
- Member, Fast Track Project Evaluation Committee, DST (2003-2005)

### ***Visiting Appointments***

Visiting Professor	University of Goettingen, Germany	(May - June, 2005)
Visiting Scientist	Neurogen Corp, CT, U.S.A.	(June 1997 – July 1998)
Visiting Scientist	University of Western Ontario, Canada	(May - June, 1994)
Visiting Scientist	University of Illinois at Chicago, U.S.A.	(May - July, 1993)
Visiting Scientist	University of Waterloo, Canada	(May - June, 1992)

### ***Distinguished Lectures***

- S. Ranganathan Memorial Medal Lecture at CBMR Lucknow (21.6.2018)
- T.R. Seshadri Memorial Lecture at Delhi University (14.01.2018)
- 1<sup>st</sup> Convocation Address as a Chief Guest, ITI Berhampur (28.12.2016)
- 1<sup>st</sup> Foundation Day Lecture, Institute of Science, BHU (16.12.2016)
- CSIR-CDRI Foundation Day Lecture (24.09.2014)
- Convocation address as a Chief Guest, Jabalpur University (2012)
- Dr. G.P. Chatterjee Memorial Lecture at ISCA (2011)
- Dr. A.V. Rama Rao Foundation Lecture, JNCASR Bangalore (2009)
- Prof. N. S. Narsimhan Endowment Lecture, Pune University (2002)

### ***Research Fund Generation***

*Sponsored Research Projects from DST, CSIR, and DAE:* 21 projects worth Rs 7 crores  
*Consultancy Project:* US\$ 1.2 million from pharma companies from USA

**Students:** Guided 32 Ph.D. students. Several students and post-docs are currently working.

**Publications:** published >150 research articles and patents.

**H-index:** 48

***Significant Scientific Contribution***

My research work falls in the area of synthetic organic chemistry, more specifically, asymmetric synthesis. We have developed several new methods to make biologically active compounds in one chiral form (mirror image isomer). The work is useful to modern drug discovery program as preparing mirror image isomers is a very difficult task.

One of the chiral organocatalysts developed in our laboratory for Enantioselective aldol reaction has been named by Germans as a “Singh Catalyst”.

***Contribution to Higher Education and Science Policy***

Significant contributions have been made to the management of higher educational Institutes, science education, science policy and planning. As a founding Director of IISER Bhopal for more than 10 years, the whole campus in 200 acres land was set-up from scratch by me. As an additional charge of Director/Mentor Director, several Institutes such as SPA Bhopal, IISER Berhampur, MANIT Bhopal, and IIIT Bhopal were nurtured. A good ambience was created in NITTTR Bhopal as its Chairperson the Board. Contribution in country’s science policy as a member/Chairperson of various bodies including SAC to PM is noteworthy. I have played an active role in promoting a policy of scientific collaboration at international level.