

Curriculum Vitae

Rana P. Singh, Ph.D.

Professor of Cancer Biology
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Education

<u>Degree</u>	<u>Institution</u>	<u>Field of Study</u>
Ph.D.	Jawaharlal Nehru University, New Delhi, India	Life Sciences/Cancer Biology
M.Sc.	Jawaharlal Nehru University, New Delhi, India	Life Sciences
B.Sc.	Ewing Christian College, University of Allahabad, U.P., India	Zoology, Botany, Chemistry

PhD Thesis: Ethnomedicinal Survey of Madhya Pradesh and Pharmacological Studies of Certain Selected Plants on Murine Model System (2000)

Academic Career

- 2014 (Feb-June): **Visiting Scientist**, University of California Riverside, CA, USA.
- 2012-present: **Professor** of Cancer Biology, School of Life Sciences, Jawaharlal Nehru University, New Delhi, India.
- 2012-2016: **Professor-Adjunct**, School of Life Sciences, Central University of Gujarat, Gandhinagar, Gujarat, India.
- 2010-2012: **Professor**, School of Life Sciences, Central University of Gujarat, Gandhinagar, Gujarat, India. (Dept)
- 2006-2010: **Associate Professor**, Molecular Cancer Biology, School of Life Sciences, Jawaharlal Nehru University, New Delhi, India.
- 2003-2006: **Assistant Professor - Research**, Department of Pharmaceutical Sciences, School of Pharmacy, University of Colorado Denver, CO, USA.
- 2001-2003: **Research Associate**, Department of Pharmaceutical Sciences, School of Pharmacy, University of Colorado and Health Sciences Center, Denver, CO, USA.
- 2000-2001: **Post-doctoral Research Fellow**, Center for Cancer Causation and Prevention, AMC Cancer Research Center, Lakewood, CO, USA.

- *Visited Canada, USA, China, Turkey, Poland, Singapore, South Africa and Austria for academic pursuits.*

Administrative Positions/Activities

- **Rector**, Jawaharlal Nehru University, New Delhi. (May 2017-present)
- **Dean of Students**, Jawaharlal Nehru University, New Delhi. (April 2016- May 2017)
- **Court Member**, Jawaharlal Nehru University, New Delhi. (2016-present)
- **Executive Council Member**, Jawaharlal Nehru University, New Delhi. (2016-2017)
- **Dean of Students' Welfare**, Central University of Gujarat, Gandhinagar, Gujarat, India. (2011-2012)
- **Chairman, Admission Committee**, Central University of Gujarat, Gandhinagar, India. (2011) – conducted All India Entrance Examination for CUG
- **Dean, School of Life Sciences**, Central University of Gujarat, Gandhinagar, Gujarat, India. (2010-2012)
- **Dean, School of Environmental Sciences**, Central University of Gujarat, Gandhinagar, Gujarat, India. (2011)
- **Provost**, Central University of Gujarat (CUG), Gandhinagar, Gujarat, India. (2010-2011)
- **Warden**, (Senior/Mess/Health/Recreation), Sabarmati Hostel, JNU, New Delhi. (2007-2010)

Other Professional Activities

- **Academic Committee Member**, CIMAP, Lucknow, India. (2019-21)
- **Academic Committee Member**, NII, New Delhi, India. (2019-2021)
- **Board Member SERB**, Department of Science and Technology, Govt. of India (2018-20)
- **Academic Committee Member**, ICGEB, New Delhi, India. (2019-)
- **LEAP Program participant** at JNU, New Delhi and NUS at Singapore (Feb 2019)
- **Chairman of Program Review Committee**, Programs and Schemes of National Council for Science and Technology Communications, DST, Govt. of India. (2018)
- **Council's Nominee** for Committee in Biological/Life Sciences, IISER Kolkata, India. (2018-)
- **Academic Committee Member**, Translational Health Science and Technology Institute (THSTI), Faridabad, Haryana, India. (2017-2019)
- **Council's Nominee** for Committee in Biological/Life Sciences, IISER Bhopal, India. (2017-)

- **Academic Committee Member**, Raman Research Institute, Bangalore, India. (2017-2019)
- **Chairman, Selection Committee**, National Overseas Scholarship, Ministry of Tribal Affairs, Govt. of India (2017)
- **Member-Expert**, Faculty Selection Committee, J&K Public Service Commission, Jammu, India (2017)
- **Academic Committee Member, Army Cadet College**, IMA, Dehradun, UK, India. (2016)
- **Academic Committee Member, CSIR– CDRI**, Lucknow, UP, India. (2016-2018)
- **Member-Expert, Selection Committee, Chinese Government Scholarship**, MHRD, New Delhi (2016)
- **School Board Member**, Manglayatan University, UP. (2016-2017)
- **Member, Joint-Coordination Committee**, National Institute of Animal Welfare, Faridabad, Haryana. (2016-17)
- **School Board Member**, Central University of Punjab, Bhatinda (2016-18)
- **Advisory Committee Member**, UGC-HRD Centre, DDU Gorakhpur University, UP, India (2015-2017)
- **Member**, Indo-Overseas Fellowship Committee, DST, India. (2015)
- **Academic Council Member**, JNU, New Delhi. (2015-)
- **School Board Member**, Dept. of Biotechnology, DDU Gorakhpur University, UP, India. (2014-2017)
- **Scientific Advisory Committee Member**, Institute of Cytology and Preventive Oncology, ICMR Institute, Noida, UP, India. (2013-)
- **Faculty-in Charge**, Central Laboratory Animal Resources, Jawaharlal Nehru University, New Delhi, India. (2012-)
- **Academic Council Member**, Chhatrapati Shahu Ji Maharaj University, Kanpur, UP, India (2012-2015)
- **Moderation Committee Member**, Gujarat State Eligibility Test, Gujarat, India. (2011, 2012)
- **Chair, Search Committees**, Project Research Assistant/Post-doctoral Fellows /Project Research Associate – Bio-fractionation, isolation, purification and characterization of active components having anticancer activity in natural extracts, and Cancer Intervention Research at DOPS/SOP/University of Colorado. (September 2005, and March 2006)
- **Invited Judge** for 17th and 18th Annual Student Research Forum, University Colorado Health Sciences Center, Denver, CO, USA. (2002 and 2003)
- **Invited Judge** for Denver Metropolitan Regional Science Fair, Denver, CO, USA. (2003)

Workshops Organized

- **Organized**, Workshop on *Handling and Care of Laboratory Animals* at School of Life Sciences, Jawaharlal Nehru University, New Delhi, India. (15-19 February, **2020**).
- **Organized**, Workshop on *Handling and Care of Laboratory Animals* at School of Life Sciences, Jawaharlal Nehru University, New Delhi, India. (04-07 February, **2019**).
- **Organized**, Hands on Workshop on *Handling and Care of Laboratory Animals* at School of Life Sciences, Jawaharlal Nehru University, New Delhi, India. (28 May- 02 June **2018**)
- **Organized**, Hands on Workshop on *Handling and Care of Laboratory Animals* at Jawaharlal Nehru University, New Delhi, India. (11-14 February **2016**)
- **Conducted** one-day workshop on “Cancer Biology and Basics of Genetic Engineering” at Gujarat Science City, Ahmedabad, India at the meeting of German Foundation "DWIH New Delhi - Excellence on Tour-2013". (15-22 November **2013**)

Organization of International Conferences/Symposium

1. **Organized**, International Symposium on Cancer Prevention and Treatment, Jawaharlal Nehru University, New Delhi, India. (February 20-21, **2020**).
2. **Organized**, International Symposium on Tumor Microenvironment and Cancer Prevention & Therapeutic, Jawaharlal Nehru University, New Delhi, India. (February 08-09, **2019**).
3. **Co-organizer**, International Conference on Cell Death in Cancer and Toxicology. IITR, Lucknow, India. (February 20-22, **2018**)
4. **Organized**, International Symposium on Cell Death Resistance in Cancer: Perspective on Cancer Stem Cells at Jawaharlal Nehru University, New Delhi, India. (19 February **2018**)
5. **Organized**, International Symposium on Cancer Prevention and Treatment at Jawaharlal Nehru University, New Delhi, India. (09-10 February **2018**)
6. **Organized**, 6th Annual Conference of Society for Mitochondrial Research and Medicine-India & International Conference on *Role of Mitochondria in Health & Disease* at Jawaharlal Nehru University, New Delhi, India. (10-11 February **2017**)
7. **Organized**, 8th International Conference of LASA India, Jawaharlal Nehru University, CSIR- Institute of Genomics and Integrative Biology (IGIB), New Delhi and National Institute of Biologicals (NIB), Noida, India. (26-26 November, **2017**).
8. **Organized**, International Symposium on *Role of Herbals in Cancer Prevention and Treatment* at Jawaharlal Nehru University, New Delhi, India. (9-10 February **2016**)
9. **Organized**, International Symposium on *Current Advances in Radiobiology, Stem Cells and Cancer Research* at Jawaharlal Nehru University, New Delhi, India. (19-21 February **2015**)

10. **Co-organizer**, 5th International Conference on *Stem Cells and Cancer: Proliferation, Differentiation & Apoptosis* at Jawaharlal Nehru University, New Delhi, India. (8-11 November **2014**).
11. **Organized**, International Conference on *Recent Advances in Cancer Prevention and Therapeutics* at Central University of Gujarat, Gandhinagar, India. (19-20 November **2013**)
12. **Organized**, International Conference and Second Annual Meeting of Society of Mitochondria Research and Medicine-India on "Mitochondria in Health and Disease" at Central University of Gujarat, Gandhinagar, India. (2-3 November **2012**)
13. **Organized**, International Conference on *Recent Advances in Cancer Research: Therapeutics to Chemoprevention* at Central University of Gujarat, Gandhinagar, India. (8-9 February **2012**)
14. **Organized**, International Conference on *Recent Advances in Cancer Research: Bench to Bedside* at Central University of Gujarat, Gandhinagar, India. (19-20 February **2011**)
15. **Joint Organizer**, International *Cancer Research Symposium-2010 on Defining and Translating Science behind the Disease* at Rajiv Gandhi Centre for Biotechnology, Trivandrum, Kerala, India. (20-22 December **2010**)
16. **Organized**, International Symposium on *Cancer Chemoprevention and Translational Research* at Jawaharlal Nehru University, New Delhi, India. (21 December **2009**)
17. **Joint Coordinator**, International Conference on *Frontiers in Diagnosis, Prevention and Therapy of Cancer*, Motilal Nehru Medical College, Allahabad, U.P., India. (21-22 November **2009**)
18. **Organized**, International Symposium on *Novel Strategies for Targeted Prevention and Treatment of Cancer* at Jawaharlal Nehru University, New Delhi, India. (19-20 December **2008**)

Awards/Honors

- Indo-US Science Technology Forum (IUSSTF)- 2019 Award for establishing "Centre for Integrative Cancer Biology and Therapeutics" (Virtual Networked Centre - JNU and Stanford University)
- ICMR International Fellowship for Young Biomedical Scientists-2013-14. (University of California Riverside, USA)
- Post-doctoral Trainee Award for Prostate Cancer Research, U.S. Army Medical Research and Materiel Command, Department of Defense, USA. (2003-05)
- Scholar-in-Training Award, American Association for Cancer Research, Philadelphia, PA, USA. (2002)
- JRF and SRF, University Grant Commission/School of Life Sciences, JNU, New Delhi, India. (1993-95-98)
- National Eligibility Test for Junior Research Fellowship and Lecturership, UGC/CSIR, New Delhi, India. (1993)

- All India JNU Entrance examination for M.Phil/Ph.D. admission in Life Sciences, JNU, New Delhi, India. (First Rank, 1993).
- Merit-cum-Means Scholarship for Masters, School of Life Sciences, JNU, New Delhi, India. (1991-93)

Invited Talks/ Chairing of Scientific Sessions

1. Invited plenary lecture on ' Management of Cancer through Chemoprevention' at the XLIII Indian Social Science Congress at Bengaluru Central University, Bengaluru, India. (January 17-21, 2020)
2. Invited talk at National Seminar on “Ayurveda and Integrative Medicine and its Contemporary Relevance” at Regional Ayurveda Research Institute of Urinary Disorder, Jammu, India. (January 11-12, 2020)
3. Invited talk at an International Conference on “Emerging Horizons in Oncology: Molecules to Therapeutics” at Gujarat University, Ahmedabad, India. (September 27-29, 2019).
4. Invited talk at Sci-ROI (Science and Research Opportunities in India) at University of Chicago, IL, **USA**. (September 7, 2019).
5. Delivered talk at ACS National Meeting, Fall 2019 (American Chemical Society) at San Diego, CA, **USA**. (August 29, 2019).
6. Delivered invited lecture on “small molecules suppressing chemo- and radiation resistance via targeting mitochondrial exchange and DNA repair in cancer” at School of Medicine, Radiation Oncology, Stanford University, CA, **USA**. (August 27, 2019)
7. Invited talk at International Conference of Integrative Chemistry, Biology and Translational Medicine. University of Delhi, Delhi, India. (February 25-26, 2019).
8. Invited talk at Mitochondria in Health and Disease, CDRI, Lucknow, India. (November 29-30, 2018).
9. Invited talk at International 87th Conference of Society of Biological Chemists, School of Life Sciences, Manipal Academy of Higher Education, Manipal, India. (November 25-27, 2018).
10. Invited talk, Animal Models in Cancer Research, at Institute of Liver and Biliary Sciences, New Delhi, India. (October 2018)
11. Invited talk at 7th International Symposium on Global Challenges for today's Research Universities: Health, Energy and Environment, and Agriculture, McDonnell International Scholars Academy, Beijing, **China**. (October 11-14, 2018).
12. International Conference on Bioinformatics, JNU, New Delhi, India. (September 26-28, 2018).
13. National Conference on Recent Advances in Environmental Sciences, School of Environmental Sciences, JNU, New Delhi, India. (March 22, 2018).

14. Invited talk on Fisetin Causes DNA Damage and Apoptosis through ROS in Human Gastric Cancer Cells. International Conference on Cell Death in Cancer and Toxicology, CSIR-IITR, India. (February 20-22, 2018)
15. Invited talk on Chemoprevention of Colon Cancer: Role of Mitochondrial Dynamics. Second International Conference on Nutraceuticals and Chronic Diseases (2nd INCD-2017), Goa, India (September 1-3, 2017)
16. 15th Annual Meeting and a conference on “Basic and Applied Aspects of Health Management Using Radiation, Antioxidants and Nutraceuticals” at BARC, Mumbai, India. (January 9-12, 2017)
17. Invited talk on ‘Animal models in prostate cancer research’ at International Conference on "Advances in Laboratory Animal Science for Modeling Human Diseases" organized by Laboratory Animal Scientists' Association (LASA), Bangalore, India. (October 14-15, 2016)
18. Invited talk on ‘Enhancing radiotherapy of prostate cancer with phytochemicals’ at National Symposium on Current Research in Cancer Biology & Therapy organized by School of Biological Science & Biotechnology, University & Institute of Advanced Research, Gandhinagar, India. (October 7-8, 2016)
19. Invited talk on ‘Where to focus while writing a scientific paper?’ at Workshop on Scientific Paper Writing and Effective Communications, DDU, Gorakhpur University, UP, India. (September 17-18, 2016)
20. Invited talk at Symposium on Recent Trends in Biological Sciences, Central University of Punjab, Bhatinda, Punjab, India. (March 29, 2016)
21. Indo-US Workshop on Cancer at NASI, Pusa, New Delhi, India, organized by CCRU, AYUSH, Govt of India. (March 3-4, 2016)
22. Invited talk and chair of a scientific session. National Conference on Herbal Medicine, Current Strategies & Future prospects, University of Rajasthan, Jaipur, India (December 22-24, 2015)
23. Invited talk and chair of a scientific session. Sixth International Conference on Stem Cells and Cancer: Proliferation, Differentiation & Apoptosis”. Pune, India. (October 2015)
24. International Conference on Cancer Prevention. Invited talk. University of Gdnask, **Poland**. (June 2015)
25. Academic Staff College, Invited talk for orientation program. DDU Gorakhpur, UP, India. (June 2015)
26. Keynote Talk, at National Seminar on Medicinal Plants: Markets to Produce, at INSA New Delhi, India. Title: “Role of phytochemicals in chemoprevention of cancer”. (April 29, 2015)
27. Keynote Talk, at KIIT Group of College, Gurgaon, Haryana, India, on National Science Day. Title: “How to control cancer?” (February 28, 2015)

28. Fourth Annual Conference of the Society for Mitochondrial Research and Medicine (SMRM) at the School of Life Sciences, Manipal University, Manipal, Karnataka, India. (December 8-9, 2014)
29. International Conference on Emerging Trends in Biotechnology and 11th Convention of the Biotech Research Society, India, Jawaharlal Nehru University, New Delhi, India. Title: "Cyclin-dependent kinase inhibitor in chemoprevention of prostate cancer". (November 6-9, 2014)
30. Chaired a Scientific Session in 5th International Conference on Stem Cells and Cancer: Proliferation, Differentiation & Apoptosis, Jawaharlal Nehru University, New Delhi, India. (November 8-11, 2014).
31. Department of Pharmaceutical Sciences, University of Colorado Denver, CO, USA. Title: "A novel role of silibinin in enhancing radiotherapeutic response in prostate cancer" (May 12, 2014).
32. University of California Riverside, Department of Chemistry, CA, USA. Title: "Chemoprevention of photocarcinogenesis by small molecules from plants". (March 12, 2014).
33. International Conference on 'Vistas of Life Sciences- Now and Beyond' at Jawaharlal Nehru University, New Delhi, India. Title: "Angioprevention of cancer". (February 13-15, 2014).
34. South Asian University, New Delhi, India. Title: "Starvation of tumor - chemopreventive intervention of angiogenic switch to control cancer". (Jan 24, 2014)
35. Fourth International Conference on Stem "Cells and Cancer: Proliferation, Differentiation & Apoptosis" at Haffkine Institute, Parel, Mumbai, India. Chaired a scientific session on 'Molecular regulation in cancer therapeutics'. Title: Chemopreventive agents target tumor angiogenesis. (October 19-22, 2013)
36. DBT-Brain Storming Session on Nutriepigenomics at CFTRI Mysore, India. Title: "Modulation of tumor suppressors by IP6 in prostate cancer". (June 7, 2013)
37. A National Seminar on "Role of Ayurveda in Rheumatoid Arthritis & Cancer" Organized by GR Ayurved University, Hoshiarpur, Punjab, India. Title: "Cancer chemoprevention by phytochemicals". (April 20-21, 2013)
38. A Conference on "Emerging Trends and Challenges in Basic and Translational Research in Biochemistry" by Centre of Advanced Study in Zoology, Banaras Hindu University, Varanasi, India. Title: "Vascular targeting of cancer growth by phytochemicals". (February 4-5, 2013)
39. A Conference on "Applications of Natural Products for Human Health and Bioremediation of Pollutants" organized by Centre for Advanced Studies, Department of Zoology, University of Rajasthan, Jaipur, India. Title: "Role of naturally occurring compounds in angioprevention of cancer". (March 22-23, 2013)
40. Thirty second Convention of Indian Association for Cancer Research on "Emerging Trends in Cancer research: Road to prevention & cure & International Symposium on: Infection and Cancer" Title: "Tumor Angiogenesis – a potential target in chemoprevention of cancer". (February 13-16, 2013).

41. International Congress on Ayurvedic Concepts and Treatment of Malignant Disorders at Sri Dharmasthala Manjunatheshwara College of Ayurveda & Hospital, Udupi, Karnataka. Topic: Role of Phytochemicals in Chemoprevention of Cancer. (December 15-16, 2012)
42. XXXII Annual Conference of Society of Toxicology (India): New Paradigms in Toxicology (NPT-2012) at CSIR-Indian Institute of Toxicology Research, Lucknow, UP, India. Title: "Phytochemicals in angioprevention of cancer" (December 5-7, 2012).
43. Third International Conference on Stem Cells and Cancer (ICSCC-2012): Proliferation, Differentiation and Apoptosis at Ram Manohar Lohia Hospital, New Delhi, India. Topic: "Apoptotic mechanisms of silibinin in neoplastic cells". (October 27-30, 2012).
44. Fifth International Congress on Nutrition and Cancer at Elazig, **Turkey**. Topic: Decursin, a novel coumarin with anticancer activity in prostate cancer (September 09 - 11, 2012)
45. Indo-US collaborative Workshop focused on "Accelerating Botanicals Agent Development Research for Cancer Chemoprevention & Treatment", at Moffitt Cancer Center in Tampa, Florida, **USA**. Topic: "Multiple targets of phytochemicals in cancer chemoprevention – cell cycle, apoptosis and angiogenesis". (May 29-31, 2012).
46. International Conference on Mitochondria Research and Medicine and First Annual Meeting of the Society for Mitochondria Research and Medicine (SMRM-India), at Centre for Cellular and Biology (CCMB), Hyderabad, India. Topic: "Apoptotic mechanisms of silibinin in neoplastic cells". (December 9-10, 2011)
47. Inter-University Accelerator Centre, New Delhi. Ultraviolet radiation-induced molecular alterations and apoptotic signaling. (November 21-22, 2011)
48. International Conference on Natural Products and Cancer Targets: Progress and Promise, Zhengzhou University, Zhengzhou Province, **China**. Topic: "Decursin, a naturally occurring coumarin, suppresses various aspects of prostate cancer growth". (August 24-25, 2011)
49. International meeting and round table discussion involving American and Chinese Scientists on Translational Research for Cancer Control, at Institute of Medicinal Biotechnology, Chinese Academy of Medical Science, and Pekin Union Medical College, Beijing, **China**. Topic: "Translational research with phytochemicals for cancer control". (August 26-28, 2011)
50. International Conference on Carcinogenesis and Cancer Prevention organized by Carcinogenesis Foundation, USA, at DSI, Bangalore. Title: "Cancer chemopreventive activity of a naturally occurring novel coumarin compound". (February 16-18, 2011)
51. Three lectures on various principles and techniques on topics related to radiation, Central University of Bihar, Patna. (December, 2010)
52. International Cancer Research Symposium-2010 on Defining and Translating Science Behind the Disease at Rajiv Gandhi Centre for Biotechnology, Trivandrum, Kerala, India. Title: "A coumarin compound inhibits prostate cancer cells growth via modulation of cell cycle progression". (December 20-22, 2010)
53. Word Congress on Cancer-2010, Kottayam, Kerala, India. Title: "Targeting cell cycle regulation in prostate cancer." (September 3-5, 2010)

54. University of Pittsburgh Cancer Institute, Pittsburgh, PA, USA. Title: "Cyclin-dependent kinase inhibitors: role in chemoprevention of prostate cancer". (July 2, 2010)
55. Symposium on Natural Products in Health and Disease: Biochemical and Molecular Mechanisms. Punjab University Chandigarh, Punjab, India. Title: "Mechanisms of cancer chemoprevention by IP6". (March 5-6, 2010)
56. International Symposium on Current Status and Opportunities in Aromatic and Medicinal Plants. Central Institute for Medicinal and Aromatic Plants, Lucknow, UP, India. Title: "Role of phytochemicals in cancer control". (February 21-24, 2010)
57. International Symposium on Endocrinology and Reproduction: Molecular Mechanisms to Molecular Medicine and 28th Meeting of the Society for Reproductive Biology and Comparative Endocrinology. SCMM, JNU, New Delhi. Title: "Prostate tumor growth and progression and its chemoprevention". (February 4-6, 2010)
58. UGC Academic Staff College, Jawaharlal Nehru University, New Delhi, India. Title: "Chemoprevention of cancer". (January, 2010)
59. International Conference on Frontiers in Diagnosis, Prevention and Therapy of Cancer, Motilal Nehru Medical College, Allahabad, U.P., India. Title: Cell cycle regulation and carcinogenesis. (November 21, 2009)
60. Rajiv Gandhi Centre for Biotechnology, Thiruvananthapuram, Kerala, India. Title: "Targeting angiogenesis by small molecules for cancer control". (October 30, 2009)
61. 13th ISCB International Conference on Interplay of Chemical and Biological Sciences: Impact on health and environment. University of Delhi, India. Title: Chemoprevention of prostate tumor growth and progression. (March 1, 2009)
62. Two lectures at UGC Academic Staff College, Jawaharlal Nehru University, New Delhi, India. Title: 'Cancer Chemoprevention' and 'Angioprevention of cancer'. (January 20 & 28, 2009)
63. World Congress on Cancer-2009, Kottayam, Kerala, India. Title: "Antiangiogenic intervention of cancer by phytochemicals." (January 13, 2009)
64. Roswell Park Cancer Institute, Buffalo, New York, USA. Title: "Targeting tumor angiogenesis by phytochemicals for cancer control." (January 11, 2008)
65. Indo-US Symposium on Tobacco-related Diseases under 5th World Assembly on Tobacco Counter Health (WATCH) Conference, New Delhi, India. Title: "Chemoprevention of lung cancer by targeting tumor angiogenesis." (December 4, 2007)
66. Biospark-2007, SLS, Jawaharlal Nehru University, New Delhi, India. Title: "Vascular targeting for cancer control." (March 23, 2007)
67. Academic Staff College, Jawaharlal Nehru University, New Delhi, India. Title: "Anticancer drug development from phytochemicals." (February 21, 2007)
68. 75th Annual meeting of Society of Biological Chemists (India) at Jawaharlal Nehru University, New Delhi, India. Title: "Mitogenic and survival signaling - potential targets for non-toxic anticancer agents". (December 11, 2006)
69. International Conference on 'Molecular and Physiological Effect of Bioactive Food Components' organized by University of Vienna and Medical University of Vienna, at

- Vienna, **Austria**. Title: “Angioprevention – an upcoming approach in cancer intervention by bioactive flavonoids”. (October 13, 2006)
70. Health Products and Food Branch, Office of Continuing Education, Health Canada, Ottawa, **Canada**. Title: “Bioactive phytochemicals in prevention of cancer”. (September 6, 2006)
 71. School of Medicine, University of Colorado, Prostate Conference Series. Title: “Signal transduction pathways: potential targets in prostate cancer prevention”. (March 6, 2006)
 72. National Institute of Immunology, New Delhi, India. Title: “A plant flavonoid silibinin targets cell cycle regulation, mitogenic and survival signaling in prostate cancer”. (September 7, 2005)
 73. School of Life Sciences, Jawaharlal Nehru University, New Delhi, India. Title: “Mechanisms of skin cancer chemoprevention and therapy by silibinin”. (September 6, 2005)
 74. School of Life Sciences, Jawaharlal Nehru University, New Delhi, India. Title: “Targeting cell cycle regulation, mitogenic and survival signaling in prostate cancer chemoprevention” (February 3, 2004)
 75. Presentation and discussion in 93rd Annual meeting of American Association for Cancer Research, Philadelphia, PA, **USA**. “Prostate cancer, silibinin and IGFBP-3”. (April, 2002)

Membership

1. Life member, Indian Association for Cancer Research.
2. Active member, American Association for Cancer Research.
3. Life member, Society for Reproductive Biology and Comparative Endocrinology.
4. President, Cancer Research and Care Academy, New Delhi.

Teaching

1. Courses: (a) Molecular Cancer Biology and (b) Radiation Biology, and (c) Practical in Cancer Biology for M.Sc. at School of Life Sciences, Jawaharlal Nehru University (JNU), New Delhi, India (2006-)
2. Courses: (a) Topics in Radiation and Cancer Biology; and (b) Theoretical Foundation for Experiments, for M.Phil./Ph.D. at School of Life Sciences, JNU, New Delhi, India (2006-)
3. Three courses for M.Phil./Ph.D. at School of Life Sciences, CUG, Gandhinagar, Gujarat, India (2010-12)
4. One course: Methods in Molecular Toxicology, including Carcinogenesis for Ph.D. Students, at the Department of Pharmaceutical Sciences, University of Colorado Denver, USA (2003-2006)

Personnel Trained (Cancer research)

Over 50, from 2001-onwards, including Graduate Students, Research Scholars, Research Assistants, Research Associates, Post-doctoral Fellows and Visiting Scientists

M.Sc. Dissertation: many students

M.Phil. Degree awarded: 13

Ph.D. Degree awarded: 20

Post-Doctoral Fellows/RA: 5

Current Research Group (2020): 7 Ph.D. Students, 2 PDF/Research Associate, 1 SRF, 2 JRF, 1 Project Assistant, 2 M.Sc. Trainees

Editorial Board Member for Peer-reviewed Journals

1. Scientific Reports (2018-)
2. Frontiers in Cellular Biochemistry - Review Editor (2013-)
3. BMC-Cancer – Associate Editor (2013-)
4. PLoS One - Academic Editor (2011-18)
5. Molecular Cancer Biology (2012-14)
6. BMC Complementary and Alternative Medicine - Associate Editor - Basic Research (2011-14)
7. International Journal of BioSciences and Technology (2008-12)
8. International Journal of Medical Sciences and Technology (2008-12)
9. International Journal of Life Sciences and Technology (2008-11)
10. Oriental Pharmacy and Experimental Medicine – Guest Editor for one article (2008)
11. Journal of Cancer Research and Therapeutics (2006-08)

Guest Editor for Special Issues

1. Mitochondrion (2019) – *Mitochondria in Health and Disease* (**Impact Factor = 3.7**)
2. Mitochondrion (May, 2014) – *Role of Mitochondria in Health and Disease* (**Impact Factor = 4.1**, 2013)
3. Nutrition and Cancer (May, 2013) – *Mechanisms of Bioactive Phytochemicals in Cancer Chemoprevention* (**Impact Factor = 2.8**)
4. Indian Journal of Experimental Biology (Nov. 2011) - *Emerging Trends in Cancer: Prevention and Therapeutics* (**Impact Factor = 1.3**)

Reviewer for Edited Book

Molecular Techniques in Biochemistry and Biotechnology, McGraw-Hill, 2008

Reviewer for Peer-reviewed Journals

(1) Cancer Research, (2) Clinical Cancer Research, (3) Oncogene, (4) Molecular Carcinogenesis, (5) International Journal of Cancer, (6) Cancer Letters, (7) Nutrition and Cancer, (8) Indian Journal of Cancer, (9) International Journal of Gynecological Cancer, (10) Journal of Cell Physiology, (11) Archives of Biochemistry and Biophysics, (12) Drugs, (13) Evidenced-based Complementary and Alternative Medicine, (14) IUBMB Life, (15) Journal of Food Biochemistry, (16) Kidney International, (17) Toxicology Letters, (18) Food and Chemical Toxicology, (19) International Journal of Integrative Biology, (20) Cancer Immunology and Immunotherapy, (21) Journal of Neurosurgery, (22) Journal of Medicinal Food, (23) PLOS One, (24) BMC Cancer Biology, (25) International Journal of Radiation Biology, (26) Tumor Biology, (27) Molecular Cancer Therapeutics, (28) Cancer Discovery, (29) British Journal of Nutrition, (30) The Journal of Steroid Biochemistry and Molecular Biology; and few more.

Research Interests

Carcinogenesis, Cancer Chemoprevention, Tumor Angiogenesis, Radiation Therapy, Cell Signaling, Cell Cycle, Cancer Stem Cells

The areas of interest in carcinogenesis are cell cycle progression, mitogenic and cell survival signaling, and apoptosis, tumor angiogenesis, DNA damage/repair and organ specific carcinogenesis, including that of **lung**, prostate, oral cavity, stomach etc. Discovering and evaluating anticancer activities of small molecules and plant extracts and providing scientific basis (mechanisms) for their effectiveness in controlling carcinogenesis are priority areas of research. Of specific importance is the understanding of mechanisms at all levels *viz.*, molecular, cellular and organ levels in both *in vitro* as well as *in vivo* animal model systems by using latest techniques. The goal is to develop mechanism-based non-toxic anticancer agents for their potential use in cancer management.

Research Contributions (selected)

- Scientific contributions have been made in the area of cancer chemopreventive drug discovery. Studies have led to the discovery of many novel mechanisms of action of chemopreventive agents against various cancers as evident from publications and citations. More importantly, the extensive work paved the way for a chemopreventive drug silibinin to enter phase II clinical trial in human prostate cancer patients.
- We identified that insulin-like growth factor binding protein-3 can serve as prognostic biomarker in prostate cancer intervention by chemopreventive agents. Also identified that silibinin can protect skin from the DNA damage by UV radiation by enhancing the repair, and in process of developing a novel formulation for sunscreen.
- We identified that these agents interfere with the process of angiogenesis to inhibit tumor vascularization and its growth and progression. We postulated that dietary factors affect the equilibrium between antiangiogenic and proangiogenic environment in the body and thus determine the dormancy of a tumor waiting for angiogenesis for its growth.

- We identified that silibinin, a flavonoid, can sensitize cancer cells for chemotherapy. IP6 (inositol hexaphosphate) works selectively against prostate cancer cells by specifically targeting cyclin-dependent kinase inhibitors p21 and p27 and thereby modify the activity of CDK-cyclin and RB-related protein and E2F complexes. Also, found that IP6 impairs erbB1 receptor and fluid-phase endocytosis and associated mitogenic signaling in human prostate cancer cells.
- Recently, we identified that sodium butyrate, a short-chain fatty acid and fermentation product, induces DRP1 (dynamin-related protein) mediated mitochondrial fusion and starve the cancer cells to death.
- We found that a flavonoid can selectively radiosensitize the cancer cells by blocking the nuclear translocation of EGFR and DNA-PK in both cell culture and *in vivo* tumor growth conditions. Thus, it could be a potential radiosensitizer in radiotherapy of cancer.

Research Publications (2000 – 2020)

Total: **161** (Articles: **142**; Book chapters: **13**; Proceedings: **5**; Book: **1**)

Selected Publications in > 5.0 Impact Factor Journals

Sl. No.	Journals (>5.0 impact factor <u>only</u>)	Number of articles published	Impact factor (5-yr/ when published)	Citations Google Scholar (Apr 2020)
1.	Carcinogenesis	14	5.7	Citation All indices Citations: >10,000 h-index: 67
2.	Clinical Cancer Research	11	7.8	
3.	Cancer Research	10	9.3	
4.	Oncogene	4	8.6	
5.	Molecular Cancer Therapeutics	6	5.6	
6.	Neoplasia	3	5.9	
7.	Current Cancer Drug Targets	3	5.1	
8.	Cell Cycle	2	5.4	
9.	International Journal of Cancer	3	7.3	
10.	Oncotarget	3	6.6	
11.	Cancer Prevention Research	3	5.2	
12.	Cell Cycle	1	5.3	
13.	Journal of Biological Chemistry	1	5.1	
14.	Cancer Letters	1	5.02	
15.	European Journal of Cancer	1	5.5	
16.	Mutation Research Rev	1	7.9	
17.	Antioxidant Redox Signaling	1	8.4	

18.	Journal of National Cancer Institute	1	14.5	
19.	Altex	1	5.2	
20.	British Journal of Cancer	1	5.5	
Total		71		

Patents

1. **Singh RP**, Nambiar D, Agarwal R. “A novel and selective radiosensitizing agent for providing mechanism-based radiosensitizing effects in prostate cancer”. Provisional Patent filed, application no. 2889/del/2015.

Book

1. *Breast Cancer – Biology, Prevention and Treatment*. A.R. Rao and **Rana P. Singh**. Red Flower Publication, New Delhi, **2015**.

Research Articles:

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