

## Brief CV - Prof Dr Neelam Sangwan, FNA, FNASc, FNAAS

### Affiliation



**Professor Neelam Sangwan, FNA, FNASc, FNAAS**

**Dean Research**

**Dean, School of Interdisciplinary and Applied Sciences (SIAS)**

Central University of Haryana, Mahendergarh, Haryana

Ex-Chief Scientist, CSIR-Central Institute of Medicinal and Aromatic Plants, (CIMAP), Lucknow-15;

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### Education, Employment Research/ Academic Assignments:

M.Sc (Biochem); Ph.D, University of Lucknow, Lucknow; Proficiency in German Language, University of Lucknow Visiting Scientist, Noble Foundation, USA; Visiting Scientist, John Innes Centre, UK; Chief Scientist, CSIR-Central Institute of Medicinal and Aromatic Plants (CIMAP), Lucknow; Scientist, CSIR-CSIR Complex, Palampur (IHBT, Palampur) HP

### University Assignments/ Responsibilities (Current/served)

- **Member**, Executive Council, CUH
- **Member**, Academic Council, CUH
- **Member**, University Court, CUH
- **Director**, Research and Development
- **Dean**, Research
- **Dean**, School of Interdisciplinary and Applied Life Sciences (SIAS)
- **Head**, Department of Biochemistry, CUH (served)
- **Head**, Department of Environmental Studies, CUH (Additional Charge served)
- **Head**, Department of Nutrition Biology, CUH (Additional Charge served)
- **Head**, Department of Yoga, CUH (Additional Charge)
- **Coordinator**, Department of Pharmaceutical Sciences, CUH (served)
- **Provost** (g), Central University of Haryana (served)
- **Member**, Cell for NEP 2020 Implementation
- **Convener**, Research Promotion Board (2021)
- **Observer**, CUCET (All India examination for Admission in UG, PG and Ph.D-2019, 20)
- **Chairperson/member**, Scrutiny Committee for CAS Promotion of Professor, Asso Prof/Assis Prof
- **Chairperson**, School Board, School of Interdisciplinary and Applied Science, CUH
- **Member**, Committee to restructure course on Research and Ethics for Ph.D students
- **Member**, IQAC, CUH
- **Member**, Central Admission Advisory Committee

<p><b>Academic Honors/Award/Distinctions</b></p>	<p><b>Academy Fellowships/membership</b>  <b>Fellow</b>, Indian National Science Academy (INSA), N Delhi;  <b>Fellow</b>, National Academy of Sciences, India (NASI), Allahabad;  <b>Fellow</b>, National Academy of Agricultural Sciences (NAAS), N Delhi;  <b>Executive Committee member</b>, Alumni Association of Department of Biochemistry (AADB), LKO  <b>Member</b>, Society of Biological Chemists India;  <b>Member</b>, Indian Science Congress Association</p> <p><b>Early Career Research Fellowships</b>  BOYSCAST Fellowship (USA);  INSA-Royal Society, UK Fellowship (UK);  Dr K S Krishnan Fellowship (DAE), Trombay;  UGC Research Fellowship</p> <p><b>Major Awards/Honors</b>  INSA Medal for Young Scientist (1994);  NAAS Young Scientist Award (2000);  Indian Science Congress Award-Prof Hira Lal Chakravorty award;  CSIR-Technology Award on research on Ashwagandha;  DBT-Women Leaders in Crop Science-under Newton-Bhabha Program  CSIR-Leadership Development Program (LDP)</p>
<p><b>Expert/Member Taskforce</b></p>	<p><b>Member</b>, Science Education Panel, Indian Academy of Science, IASc, Bengaluru;  <b>INSA Sectional Committee Member-General Biology</b>  <b>External Subject Expert Member, ICAR</b>-Institutional Research Council (IRC), Indian Agricultural Research Institute, N Delhi  <b>Subject expert member</b>, Recruitments in CSIR, University &amp; ASRB; <b>Task force member</b>, UP Council of Science &amp;Technology UPCST;  <b>Task force member</b>, Department of Biotechnology (DBT);  <b>Member</b>, CSIR-Plant Sciences Research Committee;  <b>Invited member</b>, Helmholtz-Indian Platform on Science, Technology, Education and Research;  <b>Member</b>, Review Committee on Genetic Manipulation, DBT, Govt of India;  <b>External Expert Member</b>, DRC, Maharishi Dayanand University  <b>External Expert Member</b>, Academic audit, Maharishi Dayanand University (MDU), Rohtak  <b>Member, Board of Studies</b>, Meerpur University, Rewari</p>
<p><b>Review of Projects and Manuscripts/Editorship</b></p>	<p><b>Reviewed</b> projects from national funding agencies CSIR, ICMR, DBT and DST, International funding agencies NIH-USA, Israel Govt; Singapore Food Agency, Singapore; Reviewed publications</p>

	from more than 40 International Journals; Editorial Board-Plant Growth Regulation (Springer); Edited Springer Book
<b>Courses</b>	<b>Taught courses of Ph.D, M.Sc - CIMAP-JNU, AcSIR, CUH</b> Plant Biochemistry, Biology of Macromolecules, ChemistryBiology of Natural Products; Genomics & Proteomics, Genetic engineering & Biotechnology, Bioinformatics, IPR, Ethics and Biosafety, Research Methodology
<b>Human Resource mentored</b>	PhD (15)-two pursuing; MPhil/M.Tech/ M.Sc Students: <b>(35)</b> ; Mentored Project Assistants, Women Scientists: DST, DBT BioCARE; KVPY Fellow; Three academy interns; Postdoctoral Fellows (N-PDF DST, DBT, CSIR, Raman Fellowship) <b>Supervision of postdoctoral/doctoral/PG/Academy fellow more than 65</b>
<b>Area of Research</b>	Genomics, Medicinal and Aromatic Plants, Nutraceuticals, Plant Secondary Metabolism, Functional Genomics, Mapping of Metabolic Pathways, Abiotic stress-Flouride stress, Chemotypes and Phytochemicals-Phytochemical Based Pharmacological Properties such as antioxidants, neuroprotection, anti-cancer
<b>Major Translational Leads</b>	<ul style="list-style-type: none"> <li>✓ Pharmacological activity for neuroprotection, anti-oxidant;</li> <li>✓ Ashwagandha variety NMITLI-118 and NMITLI-101, the lead varieties (Released 2015 from Vigyan Bhawan by Honorable minister Dr Harshvardhan- (as PI and nodal scientist)</li> <li>✓ Ashwagandha basic &amp; translational research-CSIR Technology Award 2015</li> </ul>
<b>External projects Implemented/ Worked/ mentored</b>	Department of Science and Technology (DST), Delhi; Department of Biotechnology (DBT), N Delhi; Indian National Science Academy, Delhi (INSA); New Millennium Indian Technology Leadership Initiative (NMITLI), N Delhi; CSIR (FTT, Network) and CSIR-Mission (Aroma mission and Phytopharmaceutical Projects), Indian Council of Medical Research (ICMR)
<b>Publications</b>	More than <b>130 publications</b> in natl/international journals, and Book Chapters, Indian and US Patents (Six); <b>Citations 6502, h-index-43; i10 index-100</b>
<b>International Visits</b>	Visited research institutions Noble Foundation, <b>USA</b> ; Cambridge University & Clare College (Cambridge, <b>UK</b> ), John Innes Centre & Sainsbury Laboratory, <b>UK</b> ; Jiangnan University, Wuxi, <b>China</b> ; RMIT, <b>Melbourne</b> , Deakin University, <b>Australia</b> ; Queen's University, Kingston, <b>Canada</b> ; IUBMB conference at Barcelona, <b>Spain</b> ; Plant Molecular Biology conference at Birmingham, <b>UK</b>
<b>Social outreach</b>	<b>Nodal Scientist</b> (CSIR-CIMAP)-KVS Jigyasa Program of state of UP (2017-2019), Coordinated knowledge visits and workshops for bright young students of KVS for inculcating

	<p>scientific temperament; Participated in CSIR-program on MAPs cultivation and future prospects in villages of UP under rural development program with AcSIR scholars;</p> <p><b>Member Advisory Committee</b>, Health conclave at India International Science Festival (IISF) held at Lucknow-2018 for organizing Health Conclave, CMEs, Health Expo as member Vigyan Bharti Awadh Prant, Organized - Bharat ka Vigyan mein Yogdan, National Seminar</p>
<b>Hobbies</b>	Gardening, Writing, Photography, Listening Music, Reading