


## Curriculum Vitae

<b>Full Name:</b>	<b>PROF. DEVENDRA SINGH NEGI</b>			
<b>Designation:</b>	<b>Professor and Head</b>			
<b>Department:</b>	<b>Chemistry</b>			
<b>Campus:</b>	<b>Birla Campus</b>			
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<b>Education Qualification:</b>	<b>M. Sc PhD</b>			
<b>Teaching Experience</b>	32 Years (Professor: May 2008-Present, 12 Years 4 Months)	<b>Research Experience</b>	Years 34	
<b>Research Interest and Fields of Specialization</b>				
<ol style="list-style-type: none"> <li>1. Natural Products Chemistry</li> <li>2. Synthetic Chemistry</li> <li>3. Green Chemistry and Nanotechnology</li> </ol>				
<b>Honours &amp; Awards</b>				
<ol style="list-style-type: none"> <li>1. Commonwealth Scholarship Commission of United Kingdom</li> <li>2. Fulbright Fellowship program of USA</li> <li>3. Elected Fellow of Royal Society of Chemistry, UK- 2019</li> <li>4. INSA- Royal Society Visiting Professor: University of Manchester, University of Oxford and University of Cambridge, UK 1999 and 2004</li> <li>5. DFG Visiting Professor, Technische University, Braunschweig Germany, 2012</li> <li>6. CICOPS Visiting Professor, Italy, 2008</li> <li>7. INSA Visiting Scientist, IISc, Bangalore 1993</li> <li>8. DST- SERB Visiting Scientist IISc, Bangalore 1995</li> <li>9. DST-SERB Visiting Fellow at IISc, Bangalore</li> <li>10. Elected Life Member of National Academy of Sciences, Allahabad in Physical Sciences, 2010</li> <li>11. Received Appreciation Award of Uttaranchal Association of North America, Fairfax, VA, USA on March 23, 2014 in recognition of support and countless hours of service towards UANA community programs in Uttarakhand</li> <li>12. Biography in Marquis Who's Who</li> <li>13. Selected for Leadership for Academicians Program (LEAP) Ministry of Education, Government of India : AMU and Australia</li> </ol>				

**Editor and Guest Editor:** International Journal of Green Nanotechnology, Journal of Heterocyclic Chemistry, Journal of Obesity and Bariatric Surgery, Scholarly Journal of Applied Sciences and Research, Cambridge, United Kingdom, Current Organic Chemistry, Current Medicinal Chemistry, Organic and Medicinal Chemistry Section : Springer

**Guest Editor:** Current Microwave Chemistry, Advances in Organocatalysis Chemistry

Section Editor of Anti-Infective Agents Bentham Science, Current Enzyme Inhibition

**Reviewer :** ACS, Royal Society, Elsevier, Wiley, Taylor and Francis, Bentham Science, Springer, Natural Products Research, Phytochemistry Letters

#### **Member of Academic Institutions**

1. Member Academic Council Doon University, Dehradun
2. Member Academic Council SGRR University, Dehradun
3. Member Academic Council, HNB Garhwal University
4. Convener Board of Studies, HNB Garhwal University

#### **Membership of Scientific Organizations**

1. Fellow of Royal Society of Chemistry, UK
2. Fellow of Centre for International Cooperation and Development, Italy
3. Elected Life Member of National Academy of Sciences, Allahabad in Physical Sciences
4. Fellow Indian Chemical Society, Kolkata
5. Member Sustainable Nanotechnology Organization, USA
6. Member Asthagiri Herbal Research Foundation, Chennai
7. Member Green Chemistry Network, Royal Society of Chemistry
8. Member Chemical Research Society of India
9. Member Chromatographic Society of India
10. Member Indian Science Congress Association

#### **Research Supervision (No. of Ph.D. Degree Awarded/Submitted/Registered)**

**Awarded :** 12  
**Submitted:** 01  
**Registered:** 02  
**Post Doctoral :** 04

#### **Research Projects/ MoU undertaken**

##### **Projects Completed in last 05 years :**

##### **Title, Funding Agency, Total Cost, Completed/Ongoing:**

1. Antifeedant Constituents from plants of Uttarakhand region : UGC Rs 4.75 L (Completed)
2. Studies of Insecticidal agents from plants of Rutaceae family with special reference to Uttarakhand : DST Rs 12.5 L (Completed)
3. Investigation of plants from Verbenaceae family of Garhwal region for pesticidal activities UCOST Rs 11.5 L (Completed)
4. MDR inhibitory compounds from plants of Garhwal Himalayan region : UGC Rs 8.5 L (Completed)
5. Phytochemical analysis of plants from Uttarakhand Himalayan zone for antidiabetic studies CSIR Project 02/0085/12/EMR-II: For a period of three years from 30/10/2012: PI Prof. D.S. Negi (Completed)

6. UGC- SAP DRS(I) : “Natural Products Chemistry” Deputy Coordinator: Prof. D.S. Negi F.No540/3/DRS- 2010 (SAP-I) dated 30/11/2010 for a period of 05 years Rs 40.0 L approved grant (completed)
7. UGC- SAP DRS (II) : “Natural Products Chemistry”2018 No. F.540/3/DRS-II/2018 (SAP) for a period of five years 2018-2023 Rs 55.0 L (ongoing)

#### **MoU/LOI : Ongoing**

1. University of Missouri, USA: Joint research projects, exchange of faculty and students
2. Texas Tech University , USA Joint research projects , exchange of faculty and students
3. Bal Pharma Industry, Bangalore : Joint research projects between Academia and Industry , exchange of faculty and students
4. Shri Krishna Ayush University, Kurukshetra : Joint research projects and exchange of faculty and students
5. CSIR-CDRI Lucknow
6. CSIR- IIP
7. NIPER- Mohali
8. CSIR- ITRC, Lucknow

#### **Administrative Experience**

1. University Head of Chemistry Department 01/03/2019 continuing
2. Assistant Dean Student Welfare, Birla Campus HNB Garhwal University
3. Programme Officer- NSS, Birla Campus , HNB Garhwal University
4. Programme Coordinator-NSS, HNB Garhwal University
5. Deputy Controller of Examination, HNB Garhwal University
6. Coordinator Entrance Test for All India PhD, PG and B Ed Entrance Examination HNB Garhwal University
7. Coordinator UGC NET Examination - 2014 , CBSE, New Delhi
8. Deputy Coordinator UGC-SAP (DRS-I) Department of Chemistry , HNB Garhwal University
9. Coordinator UGC-SAP (DRS-II) Department of Chemistry , HNB Garhwal University
10. Officer on Special Duty, HNB Garhwal University
11. Pro Vice Chancellor (Actg.) HNB Garhwal University
12. NAAC Assessor, UGC MHRD

#### **Scientific Visits Abroad/ International Collaboration**

The following international visit was undertaken under various scientific and research programmes and international collaboration

1. United Kingdom : 04 Visits : University of Manchester, University of Oxford , University of Cambridge, University of Sheffield, Imperial College, London , University College, London
2. USA : 04 Visits : Ohio State University, Pittsburgh University , University of Missouri, University of California, Santa Barbara, Texas Tech University, Texas
3. Germany : 01 Visit : Technische University, University of Gottingen
4. Italy : 01 Visit : University of Pavia, University of Florence, University of Venice
5. France : 01 Visit : Paris Sorbonne University
6. Australia : 01 Visit : Monash University, Melbourne
7. Japan : 01 Hiroshima University

Conference/Symposium/Workshop Attended during last five years

## International

Attended/Presented Paper/Invited Talk/Keynote Address/Session Chair, Title of event, place, date, year

1. Delivered Invited talk at Sustainable Nanotechnology Organization Conference, Santa Barbara, USA November 2-5, 2014.
2. Delivered Public lecture at Technische University, Germany
3. Delivered Public lecture at University of Missouri, USA
4. Public lecture at Texas Tech University, USA
5. Delivered invited talk at University of Cambridge, Oxford and Manchester, Sheffield, Pavia, Florence, Venice, Ohio State University

## National

1. National Symposium on innovative Methods in Chemistry Education (IMCE-2015) and National Convention of Chemistry Teachers (NCCT-2015), University of Lucknow, Lucknow, Oct. 08-10, 2015.
2. International Seminar CTDDR-2016: "Current Trends in Drug Discovery & Research" CDRI Lucknow during 25-28<sup>th</sup> Feb. 2016.
3. DST INSPIRE invited talk at HNB Garhwal University, Srinagar (Garhwal)
4. Chaired the session at "Training workshop on Green Chemistry : Chemistry for tomorrows world " organised by Department of Chemistry, University of Delhi, Delhi
5. Presented a paper entitled "Green synthesis of Zinc oxide Nanoparticles using Leaves extract of *Rubia cordifolia* against different Bacterial pathogens" at NCRASTM (National Conference on Recent Advances in Science, Technology & Management. April 29-30, 2017, Phonics Group of Institution, Roorkee.
6. 2 day workshop on material characterization by SEM, TEM, XRD & EBSD, October 27-28, 2017, G.B. Pant institute of Engineering and Technology, Ghurdauri, Pauri, Garhwal.
7. "Green Synthesis of Zinc oxide Nanoparticles using *Rubia cordifolia* Root extract against different Bacterial Pathogens" at International conference on Trends in Biochemistry and Biomedical Research advances and challenges, (TBBR-2018) Feb 13-15 2018, BHU, VARANASI.
8. "Antibacterial and Antioxidant activity of Zinc oxide Nanoparticles using Stem extract of *Rubia cordifolia*" at International Conference on Advances in Analytical Sciences (ICAAS) March 15-17, 2018, IIP, Dehradun.
9. "Comparative Antibacterial and Antioxidant Activity of Green synthesized Zinc oxide Nanoparticles using different part's extract of *Rubia cordifolia*", National Conference on Recent Frontiers in Chemistry (NCRFC-2018) April 27-28, 2018, H.N.B. Garhwal (A Central) University, Srinagar, Uttarakhand.
10. Green Synthesis of Nanostructured Silver particles using Leaves extract of *Rubia cordifolia* and their Biological and Catalytic application, National Conference on Recent Advances in Chemical and Nano Sciences, October 29-30, 2018, H.N.B. Garhwal University, Pauri Campus, Pauri, Uttarakhand.
11. The development of Cyclooxygenase -1 and Cylooxygenase- 2 inhibitors. A review Abs no. 66, Page no 35, 21-23 Dec., 2019. Rahul Vishwakarma, Ayasha Negi and D.S. Negi, Annual Convention of National Academy of Sciences, Allahabad

### Conference/Symposium/Workshop Organized during last five years

1. Convener: National Workshop on Green Chemistry
2. Principal Investigator: Indo-US Workshop on Green Chemistry,
3. Convener: National Conference on Recent Advances in Natural Products and Nanotechnology
4. Convener HNBGU-TTU, USA webinar on understanding Gandhian way of life: A timeless lesson for everyone to emulate

### Selected publications during recent years

1. Norazah B. Basar, Hao Liu, Devendra S. Negi, Hasnah M. Sirat, Gareth A. Morris and Eric J. Thomas, Total synthesis of a cuticular hydrocarbon from the cane beetle *Antitrogus parvulus*: confirmation of the relative stereochemistry, *Org. Biomol. Chem.*, 2012,10, 1743-1745
2. Phytochemical investigation and antifeedant activity of *Premna latifolia* leaves Ashok Kumar, Mahendra Lal Tamta, K.Chandrasekhar &Devendra Singh Negi , 1680-1686 Jul 2010, Natural Products Research
3. Himalayan Plant species as Pesticidal agents : Mini-Reviews in Organic Chemistry, Volume 9, Number 2, May 2012 , pp. 143-150(8).
4. Ashok Kumar, Mahendra Lal Tamta, K. Chandrashekar and Devendra Singh Negi, Phytochemical Investigation and Antifeedant Activity of *Premna latifolia* Leaves, *Natural Product Research*, 25(18), 1680-6, 2012
5. Devendra S. Negi, Ashok Kumar, R. K. Sharma, Nivedita Shukla, Nisha Negi, Mahendra Lal Tamta, Yogesh Bansal, Por-gnam Prasert, and James R Kedutat Cairns, Structure Confirmation of Rare Conjugate Glycosides from *Glycosmis arborea* (Roxb.) with the Action of  $\beta$ -Glycosides, *Research Journal of Phytochemistry*, 5(1), 32-40, 2012
6. Zhimin Zhao, Katsuyoshi Matsunami, Hideaki Otsuka, Nisha Negi, Ashok Kumar, Devendra Singh Negi A condensed phenylpropanoid glucoside and pregnane saponins from the roots of *Hemidesmus indicus*, *Journal of Natural Medicines*, 67(1), 137-142, 2013
7. Ashok Kumar, Nisha Negi, S. Zafar Haider and Devendra Singh Negi. Composition and Efficacy of *Zanthoxylum alatum* essential oils and extracts against *Spodoptera litura*, *Chemistry of Natural Compounds*. 50, 5, 2014
8. Mohammad Faheem Khan, Nisha Negi, Rajnikant Sharma, Devendra Singh Negi. Bioactive flavanoids from *Glycosmis arborea*. *Organic and Medicinal Chemistry Letters*, 2013, 3, 4.
9. Racemic Asaranin, Devendra S Negi , Stefan Schulz , Ashok Kumar *Acta Cryst. (2013)*, C69, 01-10
10. Bioactivity guided Chemical analysis of *Melia azedarach* L. (Meliaceae), Khan, Faem and Negi, Devendra Singh , *Fitoterapia (Elsevier)* 98, 98-103, 2014 ( IF 2.45)
11. Composition and Efficacy of *Zanthoxylum alatum* essential oils and extracts against *Spodoptera litura*, Kumar Ashok, Haider Zafar S. and Negi Devendra Singh, *Chemistry of Natural Compounds*, (5),920-923, 2014 (Springer ) (IF 2.12)

12. In vitro and in vivo Antidiabetic Effect of Extracts of *Melia azedarach*, *Zanthoxylum alatum*, and *Tanacetum nubigenum* Journal: *Integrative Medicine Research* Negi, D.S. and Khan Faheem, 7 (2) , 176-183 , 2018 (Elsevier) IF 1.23
13. Phytochemical Analysis, Total Phenolic Content, Antioxidant and Antidiabetic Activity of *Sansevieria cylindrica* Leaves Extract Ahamad Tanveer Negi Devendra Singh , Kahn Mohammad Faheem, *J.Nat. Prod. Resour.* - Volume 3 Issue 2 ,(2017) 134–136, 2017
14. Green Synthesis of Zinc oxide Nanoparticles using *Rubia cordifolia* Root extract against different Bacterial Pathogens. Prachi, Mushtaq Asifa, Patel Raman, Rawat Seema and Negi Devendra Singh. *Indo American Journal of Pharmaceutical Sciences.* 7:759-765, (2017).
15. Synthesis and In-vitro Antibacterial activity of Benzimidazole derivatives from some Amino acids. Singh Navneet, Arya Prashant, Singh Rajendra, Km. Prachi and Negi Devendra Singh. *International Research Journal of Chemistry.* 17:1-15, (2017).
16. Antioxidant and Photocatalytic activity of Green Synthesized Zinc oxide Nanoparticles using Stem extract of *Rubia cordifolia*. Prachi and Negi Devendra Singh. *International Journal of Engineering, Science and Mathematics.* 7:402-410, (2018).
17. Green Synthesis, Characterization and Antibacterial property of Zinc oxide Nanoparticles using Leaf Extract of *Rubia cordifolia*. Prachi, Mushtaq Asifa, Negi Devendra Singh, *Asian Journal of Chemistry.* 31(2):385-388, (2019).
18. A review on eco-friendly synthesis and application of metal nano particles using medicinal plants. Negi Aayasha, Prachi, Singh Mahender, Negi D.S. *International journal of basic and applied research.* 9(3):491-510, (2019).
19. Antifeedant Activity of Extracts & Isolated Compounds of Two Himalayan Plants Against A Polyphagous Pest *Spodoptera litura* Octa. *J. Biosci.* Negi Poonam , Rawat Bhupendra Singh, and Negi, D S Negi. Vol. 4(1), 33-35, 2016
20. Antifeedant Constituents from *Leucaena leucocephala* *Journal of Applied Pharmaceutical Sciences*, Negi, Poonam, Rawat Bhupendra Singh, Negi, Devendra Singh, 6 (12), 28-31, 2016
21. Antibacterial Activity of Benzimidazole Derivatives: A Mini Review, Negi Devendra Singh , Kumar, Goutam , Singh, Mahender and Singh Navneet, *Research & Reviews: Journal of Chemistry* 6 (3), 18-28, 2017.
22. Antibacterial and photocatalytic activity of *Verbascum thapsus* leaves extract mediated synthesized silver nanoparticles, Badola, Geeta and Negi, DS, *International Journal of Herbal Medicine* 5(6): 4-8, 2017.
23. Plant mediated synthesis of Zinc oxide nanoparticles using leaf and twig extract of *Premna barbata*: A comparative approach on its physical characteristic and antibacterial property, Prachi, Aayasha Negi, Devendra Singh Negi, *Plant Archives.* 19(2): 2469-2475, 2019 (ISSN: 0972-5210)
24. Non-enzymatic natural reactive oxygen scavengers (ROS): A Review on structures and mode of action, Tanveer Ahamad, Waseem Ahmad Ansari, Devendra Singh Negi, Mohammad Faheem Khan., *Era's Journal of Medical Research*, 6(2): 103-112, 2019 (ISSN: 2348-9839)
25. Green Synthesis of Zinc oxide nanoparticiles using fruit extracts of *Cupressus sempervirens* and analysis of their antioxidant potential Bhawna Pawar and Devendra S Negi 20 (1) 2020 *Plant Archives*(ISSN: 0972-5210)

### **Book Chapter**

1. Mohammad Saquib, Mohammad Kamil Hussain, Devendra Singh Negi, and Mohammad Faheem Khan Bioflavonoids as Promising Antiosteoporotic Agents. Plant-derived Bioactives: Chemistry and Mode of Action, 2020, **Springer Nature**, ISBN: 978-981-15-2360-1

### **Books**

1. Authors, Title of book, Publisher, year :  
1. Chemical Energetics, Equilibria and Functional Group : Organic Chemistry – I Alok Bariyar DS Negi and Abhishek Goel , Krishna Publication, 2015-2016  
ISBN No : 978-81-8283-843-7
2. Text Book BSc Chemistry- II I Alok Bariyar, DS Negi and Abhishek Goel , Krishna Publication, 2015-2016
3. Text Book Chemistry –III I Alok Bariyar, DS Negi and Abhishek Goel , Krishna Publication, 2016-2017

Total Number of Research Publications: 93 (SCI and Peer reviewed)