

## **CURRICULAM VITAE**

**Dr. Sushil Chandra Sati**

Department of Chemistry  
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### **ACADEMIC QUALIFICATIONS:**

#### **Ph. D. (Chemistry) 2012**

University : HNB Garhwal University (Central University) Srinagar Garhwal,  
Uttarakhand, India  
Title of Thesis: Phytochemical examination of some medicinal plants of Uttarakhand  
Ph. D. course work completed with A<sup>+</sup> grade (5.17/6 grade point).

#### **Master of Science (M.Sc.)**

University : HNB Garhwal University (Central University) Srinagar Garhwal,  
Uttarakhand, India  
Branch : Chemistry  
Year of Passing : 2007  
**Percentage : 65.33%**  
Specialization : Organic Chemistry

#### **Bachelor of Science (B.Sc.)**

University : HNB Garhwal University (Central University) Srinagar Garhwal,  
Uttarakhand, India  
Subjects : Physics, Chemistry, Mathematics  
Year of Passing : 2004  
**Percentage : 64.88%**

#### **Sr. Secondary Studies (10+2)**

Board : U.P. Board  
Subjects : Gen. Hindi, English, Math, Physics, Chemistry  
Year of Passing : 2001  
**Percentage : 60.80%**

#### **Secondary Studies**

Board : U.P. Board  
Subjects : Hindi, English, Math-2, Science-2, Social Sci., Biology  
Year of Passing : 1999  
**Percentage : 70.66%**

## Work Experience:

<b>1. Organization:</b>	<b>Faculty of Engineering, HNB Garhwal University (A Central University) Srinagar Garhwal, Uttarakhand, India</b>
<b>Position held :</b>	<b>Lecturer (Guest Faculty)</b>
<b>Duration :</b>	<b>4 years (July 2008- June 2012)</b>
<b>2. Organization:</b>	<b>Dolphin P.G. Institute of Biomedical and Natural Sciences, Dehradun, Uttarakhand, India</b>
<b>Position held:</b>	<b>Lecturer</b>
<b>Duration :</b>	<b>6 Months (August 2012- January 2013)</b>
<b>3. Organization:</b>	<b>Siddharth Grease and Lubes Pvt Ltd., IMT Manesar, Haryana</b>
<b>Position held:</b>	<b>Assistant manager, R&amp;D</b>
<b>Duration :</b>	<b>1 Year (February 2013 –January 2014)</b>
<b>4. Organization:</b>	<b>Uttaranchal University, Arcadia Grant, Premnagar, Dehradun- 248007, Uttarakhand, India</b>
<b>Position held:</b>	<b>Assistant Professor</b>
<b>Duration :</b>	<b>February 2014- June 2014</b>
<b>5. Organization:</b>	<b>Govt. Degree College, Karanprayag (Chamoli)</b>
<b>Position held:</b>	<b>Samvida Faculty</b>
<b>Duration :</b>	<b>October 2014 to April 2015</b>
<b>6. Organization:</b>	<b>Alpine Institute, Dehradun</b>
<b>Position held :</b>	<b>Assistant Professor</b>
<b>Duration :</b>	<b>1 Year 3 Months (May 2015 to July 2016)</b>
<b>7. Organization:</b>	<b>Govt. P.G. College, Karanprayag (Chamoli)</b>
<b>Position held:</b>	<b>Samvida Faculty</b>
<b>Duration :</b>	<b>August 2016 to Till Date</b>

**Total Work Experience** 14 Years

### **RESEARCH EXPERIENCE AND RELEVANT POSITION HELD**

## 1. PROFESSIONAL AWARDS, FELLOWSHIPS RECEIVED

- **Young Scientist Award** for best oral research paper presentation under broad area of basic sciences in **2<sup>nd</sup> Rashtriya Yuva Vaigyanic Sammelan-2010**.
- Received fellowship from UGC New Delhi under **Research Fellowships in Science for Meritorious Student (RFSMS)** scheme.

## 2. AREA OF RESEARCH INTEREST

- **Natural Product** (Isolation & structure elucidation of bioactive compounds from Plants)
- **Synthetic Chemistry** (Design, Synthesis & Pharmacological Evaluation of Quinazolin & Chromen-2-one Derivatives)
- **Lubricants Formulation, Production of Grease, Oils Knowledge of Grease Testing**

#### 4. INSTRUMENT HANDLE

➤ IR Spectroscopy, UV- Visible Spectroscopy, GC-MS, ICP-MS, XRF and HPLC.

## 5. PROFICIENCY IN COMPUTERS

- Six months Certificate course (CIC) from IGNOU.

## 6. RESEARCH PUBLICATIONS

1. Ankita Sati, *Sushil Chandra Sati*, JagMohan Singh Negi & O. P. Sati, (2018) “**Mineral composition of *Berberis aristata* DC roots**” *Analytical Chemistry Letter* 8:3, 361-367, DOI: 10.1080/22297928.2018.1468817
2. Ankita Sharma, *Sushil Chandra Sati* and O. P. Sati (2017) ‘Evaluation Of seasonal and altitudinal variation in antioxidant activity of *Ficus auriculata* leaves from Chamoli Garhwal Uttarakhand” **Europeon Journal of Biomedical and pharmaceutical Sciences**,4(8); 707-708.
3. Ankita Sati, *Sushil Chandra Sati*, Nitin Sati & O. P. Sati, (2016) “Chemical composition and antimicrobial activity of fatty acid methyl ester of *Quercus leucotrichophora* fruits” **Natural Product Research** 31(6); 713-717.
4. Ankita Sati, *Sushil Chandra Sati* and Arti Tomar (2015); Free radical scavenging activity of *Adenocalymma alliaceum*, **Europeon Journal of Biomedical and pharmaceutical Sciences**, vol 2(3).
5. Ankita Sharma, *Sushil Chandra Sati*, Suman Rawat and Preeti, (2014) “Free radical scavenging activity of leaves of *Cinnamomum camphora*” **International Journal of Pharmacy**; 4(1); 407-409.
6. Ankita Sharma, *Sushil Chandra Sati* and Arti Tomar, (2014) “Phytochemical study and antimicrobial activities of *Cinnamomum camphora*” **World Journal of Pharmaceutical Research**,vol.3(2),2287-94.
7. Ankita Sharma, *Sushil Chandra Sati*, Suman Rawat and Dheeraj Singh, (2014) “Free radical scavenging activity of leaves of *Jasminum multiflorum*” **World Journal of Pharmacy and Pharmaceutical Sciences**; 3(2); 2044-2048.
8. Ankita Sharma, *Sushil Chandra Sati*, Suman Rawat and Arti Tomar(2014);Phytochemical study and antimicrobial activities of *Jasminum Multiflorum*, **World Journal of Pharmacy and Pharmaceutical Sciences**,vol 3(4),735-42.
9. *Sushil Chandra Sati*, Nitin Sati, Vivek Ahluwalia, Suresh Walia and O.P. Sati, (2013)“Chemical composition and antifungal activity of essential oil extrected from *Artemisia nilagirica* growing in hilly areas of India” **Natural Product Research**; 27; 45-48.

10. **Sushil Chandra Sati**, Nitin Sati, O. P. Sati, D. Biswas and B. S. Chauhan; (2012) “Analysis and Antimicrobial Activity of Volatile Constituents of *Quercus leucotrichophora* (Fagaceae) Bark” **Natural Product Research**; 26; 869-872.
11. **Sushil Chandra Sati**, Nitin Sati, and O. P. Sati; (2011) “Bio-active constituents and medicinal importance of genus *Alnus*”, **Pharmacognosy Review**; 5 (10); 191-200.
12. Nitin Sati, Sushil Kumar and Sushil Sati, (2011). “Synthesis and Pharmacological Evaluation of 7-{2-[4-(Substitutedphenyl)-piperazin-1-yl]-2-Oxo-Ethoxy}-4-Methyl-Chromen-2-Ones as Serotonin 5-HT2 Receptors Antagonist”, **International Journal of Drug Design and Discovery**; 2(1); 419-424.
13. **Sushil Chandra Sati**, B.S. Rawat, Nitin Sati, O.P. Sati and G.C. Joshi, (2011). “Estimation of ratio of excited-state and ground state dipole moments of 4-methyl-7-hydroxy-chromen-2-one by solvatochromic method”, **International Journal of Chemistry and Applications**; 3(1), 1-9.
14. **Sushil Chandra Sati**, Nitin Sati, and O. P. Sati; (2011) “Chemical investigation and screening of antimicrobial activity of Stem Bark of *Quercus leucotrichophora*”, **International Journal of Pharmacy and Pharmaceutical Sciences**; Vol 3, Suppl 3, 89-91.
15. **Sushil Chandra Sati**, Nitin Sati and O. P. Sati, (2010). “Oregonin: an important diarylheptenoid from the bark of *Alnus nepalensis*”, **University Journal of Phytochemistry and Ayurvedic Heights**; 1(7); 16-18.
16. **Sushil Chandra Sati**, Nitin Sati, U. Rawat and O. P. Sati, (2010). “Medicinal Plants as a Source of Antioxidants” **Research Journal of Phytochemistry**, 4 (4); 213-224.
17. Ruchi Badoni, **Sushil Chandra Sati**, Deepak K. Semwal and Usha Rawat, (2009) “Optimization of dyeing procedure on wool yarn with *pistacia integerrimia* using synthetic and natural mordants” **Colourage**; 56; 67-70.

#### **(BOOK CHAPTER)**

1. Bhupender Singh, Gajram Singh, **S. C. Sati**, Sudhir Sachdeva, “An Overview on Manufacturing of Lubricating Greases and Testing Processes” in International Conference of Advance Research and Innovation (ICARI-2014) (2014) ISBN 978-93-5156-328-0, 43-46.
2. **Sushil Chandra Sati**, Nitin Sati and O. P. Sati, “Isolation and Characterization of “Flavon-5, 3’, 4’-trihydroxy 7-O- $\beta$ -D-glucopyranosyl (6” $\rightarrow$ 1”)  $\beta$ -D-glucopyranoside” from Stem Bark of *Quercus leucotrichophora*” in **Chemistry of Phytopotentials: Health, Energy and Environmental perspectives** (2011) Springer-Verlag Berlin Heidelberg, 21; 101-103.

#### **7. ATTENDED WORKSHOPS AND TRAINING PROGRAMMES**

1. Member of Organizing committee of “Rashtriya Panchayat Pushtak Mela-2018” Held at Srinagar Garhwal, organized by NBT Bharat, Department of Higher Education and Panchayti Raj Vibhag Uttarakhand on 24 February to 28 February 2018.
2. Participation in Regional Seminar on “Intellectual Property Rights and Patent Awareness” Held at HNB Garhwal University, Chauras Campus, Srinagar Garhwal, Uttarakhand, Jointly organized by HNB Garhwal University & Uttarakhand State Council for Science & Technology (UCOST), on 28<sup>th</sup> March 2012.
3. Attend NAIP sponsored National Training on “Naturally occurring nutraceuticals, crop protectants and other biomolecules for application in human and crop health” on 23<sup>rd</sup> January 2012 to 2<sup>nd</sup> February 2012 IARI New Delhi.
4. Participation in Regional Seminar on “Intellectual Property and Innovation Management in knowledge Era” organized by the National Research Development Corporation in Collaboration with Uttarakhand State Council for Science & Technology (UCOST), on 7<sup>th</sup> September 2009 at Pauri Garhwal.
5. Participation in Eighth National Convention of Chemistry Teachers NCCT held on November 8-9, 2008 at HNB Garhwal University, Srinagar (Garhwal) 246174, Uttarakhand.

## 8. CONFERENCES/ Abstracts

1. **Ankita Sati, Sushil Chandra Sati, Prateek Harbola & O. P. Sati, (2017)** “Study of trace element contents in *Rubus ellipticus Smith* roots” National Conference on Recent Frontiers in Chemistry (NCRFC-2018) (Accepted).
2. **Ankita Sati, Sushil Chandra Sati, Prateek Harbola & O. P. Sati, (2017)** “Mineral composition of *Berberis aristata DC* roots” National Conference on Recent Advances in Ayurvedic herbal medicine - From source to manufacturing, Abstract Book, 15 -16 September 2017 at Dehradun.
3. Sushil Chandra Sati, Nitin Sati, Ankita Sharma, Suman Rawat and O.P.Sati, (2013), “Phytochemical screening and free radical scavenging activity of stem bark of *Alnus nepalensis*” 17<sup>th</sup> National Convention of Society of Pharmacognosy, Abstract Book, 23<sup>rd</sup> – 24<sup>th</sup> February 2013.
4. **Sushil Chandra Sati**, Nitin Sati, Randhir Singh and O.P. Sati (2012), “Phytochemical screening and anti-inflammatory activity of *Quercus leucotrichophora*” International Conference on Interface between Chemistry and Environment (ICICE), Abstract book, 13<sup>th</sup>- 14<sup>th</sup> December, 2012, 85.

5. *Sushil Chandra Sati*, Nitin Sati, Rajendra Singh, Pratap Singh, Suman Rawat and O. P. Sati (2012), “**GC-MS analysis and free radical scavenging activity of fruits of *Alnus nepalensis***” 5<sup>th</sup> Uttarakhand State Science and Techonology Congress, Abstract book, 21<sup>st</sup> -23<sup>rd</sup> November 2012, 125.
6. *Sushil Chandra Sati*, Nitin Sati, A. Kumar, Rajendra Singh, S.P. Sati and O. P. Sati (2012), “GC MS analysis and antimicrobial activity of fruits of *Quercus leucotrichophora* ” INDO-US workshop on Green Chemistry for environments &sustainable development, Abstract book, 11<sup>th</sup> -13<sup>th</sup> March, 2012, 145.
7. *Sushil Chandra Sati*, Nitin Sati, S.P. Sati, A. K. Gautam and O. P. Sati (2012), “GC MS analysis of hexane extract of fruits of *Alnus nepensis*” National Conference on Recent Developments in Chemistry and Chemical Education” 16<sup>th</sup>-17<sup>th</sup> December 2011.
8. *Sushil Chandra Sati*, Nitin Sati and O. P. Sati (2011), “Isolation and Characterization of “Flavon-5, 3’, 4’-trihydroxy 7-O- $\beta$ -D-glucopyranosyl (6” $\rightarrow$ 1”)  $\beta$ -D-glucopyranoside” from Stem Bark of *Quercus leucotrichophora* ” International Conference on Chemistry of Phytopotentials: Health, Energy and Environmental perspectives (CPHEE 2011) Abstract book, 4th-6th November 2011, 80.
9. *Sushil Chandra Sati*, Nitin Sati and O. P. Sati (2011), “Flavonoidal glycoside from stem bark of *Quercus leucotrichophora*” 13<sup>th</sup> Conference of International Academy of Physical Sciences (CONIAPS XIII) Abstract book, 14-16 June 2011, 217.
10. *Sushil Chandra Sati*, Nitin Sati and O. P. Sati (2011), “Isolation and characterization of chemical constituents from stem bark of *Alnus nepalensis*” 1<sup>st</sup> Workshop on Green Chemistry Education: Necessary of a Sustainable Future (GCENSF 01) Souvenir, 22-23 March 2011, 41.
11. *Sushil Chandra Sati*, Nitin Sati, Vivek Ahluwalia, Suresh Walia and O. P. Sati (2011), “Chemical composition and antifungal activity of essential oil extrcted from *Artemisia nilagirica* growing in hilly areas of India” International Conference on Chemistry: Frontiers and Challenges, Souvenir and Abstract book, 5-6 March 20011, 131.
12. *Sushil Chandra Sati*, Nitin Sati, Amita Sharma, O. P. Sati, and D. Biswas (2010), “Analysis and Antimicrobial Activity of Volatile Constituents of *Quercus leucotrichophora* (Fagaceae) Bark” 5<sup>th</sup> Uttarakhand State Science and Techonology Congress, Abstract book, 10-12 November 2010, 241.
13. *Sushil Chandra Sati*, B.S. Rawat, Nitin Sati, O.P. Sati and G.C. Joshi (2010), “Absorption, Excitation, Emission Spectra and Quantum Yield Study of Synthesized Compound 4-

Methyl -7-Hydroxy-Chromen-2-One” International Conference On Recent Frontiers in Applied Spectroscopy (ICORFAS-2010) 22-24 Septmber 2010, 121.

- 14. ***Sushil Chandra Sati***, Nitin Sati, U. Rawat & O. P. Sati (2010), “Volatile Constituents of *Quercus leucotrichophora* (Fagaceae) Bark” 2<sup>nd</sup> Rashtriya Yuva Vaigyanik Sammelan-2010, Abstract book, 6-7February, 78.
- 15. ***Sushil Chandra Sati***, Nitin Sati and O. P. Sati (2009) “Docking of 2-Phenyl-3-(substituted phenyl)-3H-Quinazolin-4-ones into a *Mycobacterium tuberculosis* transferase: understanding the intraction with binding sites” 4<sup>th</sup> Uttarakhand State Science and Techonology Congress, Abstract book, 10-12 November, 301.
- 16. Nitin Sati & ***Sushil Chandra Sati*** (2009) “Rational design and synthesis of Chromenones as ligands of Plasmodium aspartic proteases” 4<sup>th</sup> Uttarakhand State Science and Techonology Congress, Abstract book, 10-12 November, 286.
- 17. Ruchi Badoni, ***Sushil Chandra Sati***, Sudhir Kothiyal & U. Rawat (2009) “Composition variation in essential oils of *Artemisia niligirica* and *Artemisia capillaris*” 4<sup>th</sup> Uttarakhand State Science and Techonology Congress, Abstract book, 10-12 November, 159.
- 18. Ruchi Badoni, ***Sushil Chandra Sati***, A. Bhandari & U. Rawat (2008) “Optimization of dyeing procedure on wool yarn with *pistacia integerrima* and *Bahunia purpurea* dyes using synthetic and natural mordants” 3<sup>rd</sup> Uttarakhand State Science and Techonology Congress, Abstract book, 10-11 November, 133.
- 19. D.K. Semwal, U. Rawat, A. Bamola, R. Badoni & ***Sushil Chandra Sati*** (2008) “Evaluation of Chemical Constituents; Hypoglycemic and Antimicrobial activity of *Boehmeria rugulosa* leaves”, 3<sup>rd</sup> Uttarakhand State Science and Techonology Congress, Abstract book, 10-11 November, 113.

## **PERSONAL DETAILS**

**Name** : **Dr. Sushil Chandra Sati**  
**Date of Birth** : 21/05/1984  
**Gender** : Male  
**Category** : General  
**Marital status** : Married  
**Citizenship** : Indian  
**Permanent Address** : Dr. Sushil Chandra Sati  
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**(Dr. Sushil Chandra Sati)**