

FACULTY PROFILE

1. Name: **Dr. Archana N. Sah**
2. Designation: **Associate Professor, Head & Dean**
3. Qualification: **M. Pharm., Ph. D. (Pharmacy)**
4. Area of Specialization/Research field: **Herbal Drug Technology, Pharmacognosy, Ethnopharmacology, Phytochemistry**
5. Awards/Recognitions: An article in Journal of Cellular Physiology (Wiley) has been recognized as **Top Downloaded Paper** in 2018-19
Impact factor 4.08.
6. Number of Research projects:

Sl. No.	Title of the project	Funding Agency	Year (From-To)
1.	Chemical analysis, development of quality standards for identification, safety and efficacy of some high-altitude medicinal plants	UGC 12 th Plan Innovative Research, IQAC, Kumaun University, Nainital	2016-2017

7. Number of Ph. D candidates successfully completed: **02**
8. Number of Ph. D candidates currently working: **02, and 1 (under co-supervision)**
9. Publications:

i) Research/review articles published in Journals

1. Laxman Singh, Tanuj Joshi, Devesh Tewari, Javier Echeverría, Andrei Mocan, **Archana N Sah**,... Atanas G Atanasov. Ethnopharmacological applications targeting alcohol abuse: overview and outlook. *Frontiers in Pharmacology*, 10:1593, February 2020, 1-33, ISSN: 1663-9812, **Impact Factor 4.4.**
2. Devesh Tewari, **Archana N Sah**, Sweta Bawari, SF Nabavi, AR Dehpour, S Shirooie, N Braidy, BL Fiebich, RA Vacca, SM Nabavi. Role of Nitric oxide in neurodegeneration: function, regulation and inhibition. *Current Neuropharmacology*,

Bentham Science, April 2020 (Online, In Press), ISSN: 1875 6190 online, 1570 159X print, **Impact Factor 4.568**.

3. Devesh Tewari, Pooja Patni, Anusha Bishayee, **Archana N Sah**. Anupam Bishayee. Natural products targeting the PI3K-Akt-mTOR signaling pathway in cancer: A novel therapeutic strategy. *Seminars in Cancer Biology*, Elsevier, December 2019 (Online, In Press), ISSN: 1044-579X, **Impact Factor 9.658**.
4. Sweta Bawari, Devesh Tewari, Sandro Arguelles, **Archana N sah**, Seyed Fazel Nabavi, Suowen Xu, Rosa Anna Vacca, Seyed Mohammad Nabavi, Samira Shirooie. Targeting BDNF signalling by natural products: novel synaptic repair therapeutics for neurodegeneration and behaviour disorders. *Pharmacological Research*, Elsevier, September 2019, ISSN: 1043-6618, **Impact Factor 5.574**.
5. Sweta Bawari, **Archana N Sah**, Devesh Tewari. Anticalcifying effect of *Daucus carota* in experimental urolithiasis in Wistar rats. *Journal of Ayurveda and Integrative Medicine*, Elsevier, April 2019.
6. Tanuj Joshi, Singh AK, Haratipour P, **Archana Negi Sah**, Abhay K. Pandey, Rozita Naseri, Vijay Juyal, Mohammad H. Farzaei. Targeting AMPK signaling pathway by natural products for treatment of diabetes mellitus and its complications. *Journal of Cellular Physiology*, March 2019; 1–20, ISSN: 0021-9541 (print); 1097-4652 (web). **Impact factor 4.08**.
7. Devesh Tewari, **Archana N. Sah**, Y.C. Tripathi. Chemical Composition of *Angelica glauca* Roots Volatile Oil from Indian Himalayan Region by GCMS. *Journal of Essential Oil Bearing Plants* (Taylor and Francis Publishers), 21(6), 11 March 2019, 1636-1641, ISSN: 0972-060X (Print) 0976-5026 (Online). **Impact factor 0.493**.
8. Rosa Anna Vaccaa,*, Sweta Bawarib, Daniela Valentia, Devesh Tewarib, Seyed Fazel Nabavic,d, Samira Shirooiee, **Archana N. Sah**, Mariateresa Volpicellaf, Nady Braidyg, Seyed Mohammad Nabavih, Down syndrome: Neurobiological alterations and therapeutic targets. *Neuroscience & Biobehavioral Reviews* (Elsevier), 98(2019), 234-255, ISSN: 0149-7634, **Impact Factor 8.037 (5Year IF 10.016)**.
9. Neema Bisht, **Archana N Sah**. Impact of recent trends in drug discovery and development. *Organic and Medicinal Chemistry (OMICS)*, J P Juniper Publishers), 8(2), March 2019, 001-003, ISSN: 2474-7610.
10. Sweta Bawari, **Archana N. Sah**, Devesh Tewari. Antiurolithiatic Activity of *Daucus carota*: An *in vitro* Study. *Pharmacognosy Journal (Phcog.Net)*, 10(5), Sep-Oct, 2018, 880-884, ISSN: 0975-3575.

11. Devesh Tewari, **Archana N. Sah**, Sweta Bawari, Himanshu Sharma, Anupam K. Mangal. Pharmacognostical evaluation and HPTLC fingerprinting identification of *Ficus palmata* Forssk. (*Bedu*) from Western Himalaya. *Current Bioactive Compounds*, Bentham Science Publisher, 14(2), 2018, 180-190, ISSN: 1875-6646 (online), 1573-4072 (print).
12. Devesh Tewari, **Archana N Sah**, Sweta Bawari. Pharmacognostical evaluation of *Rhododendron arboreum* Sm. from Uttarakhand region of western Himalaya, *Pharmacognosy Journal*, 10(3), May-Jun 2018, 527-532, ISSN: 0975-3575.
13. Devesh Tewari, Adrian Mateusz Stankiewicz, Andrei Mocan, **Archana Negi Sah**, Nikolay Tzvetkov, Lukasz Huminiecki, Jarosław Olav Horbańczuk and Atanas G. Atanasov. Ethnopharmacological approaches for dementia therapy and significance of natural products and herbal drugs. *Frontiers in Aging Neuroscience*, 10 (Article 3), February 2018, 1-24, **Impact Factor 4.504**.
14. Swati Patni, Neeraj Kumar, **Archana N. Sah**, Harsahay Meena, Munish Batra Comparative hepatoprotective and antioxidant activity of *Berberis asiatica* stem bark and root. *Egyptian Pharmaceutical Journal*, 16(3), Dec 2017, 184-191, ISSN: 1687-4315 (Print), 2090-9853 (Online).
15. Devesh Tewari, A Mocan, E Parvanov, **Archana N. Sah**, S M Nabavi, L Huminiecki, Z F Ma, Y Y Lee, J O Horbanczuk and A G Atanasov, Ethnopharmacological approaches for therapy of jaundice: Part II. Highly used plant species from Acanthaceae, Euphorbiaceae, Asteraceae, Combretaceae, and Fabaceae Families. *Frontiers in Pharmacology*, 8:519, August 2017, 1-14, ISSN: 1663-9812, **Impact Factor 4.4**.
16. Devesh Tewari, A Mocan, E Parvanov, **Archana N. Sah**, S M Nabavi, L Huminiecki, Z F Ma, Y Y Lee, J O Horbanczuk and A G Atanasov, Ethnopharmacological approaches for therapy of jaundice: Part I. *Frontiers in Pharmacology*, 8:518, August 2017, 1-18, ISSN: 1663-9812, **Impact Factor 4.4**.
17. Sweta Bawari, **Archana N. Sah*** and Devesh Tewari. Urolithiasis: An Update on Diagnostic Modalities and Treatment Protocols. *Indian Journal of Pharmaceutical Sciences (IJPS)*, 79(2), March-April 2017, 164-174, ISSN: (0250-474X). **Impact factor 0.762 (2015)**.

18. **Archana N Sah***, V Juyal, A B Melkani. Pharmacological evaluation of traditional claims of Himalayan *Citrus medica* Linn., *Indian Journal of Traditional Knowledge* (IJTK) NISCAIR,16(2), April 2017, 290-296, ISSN: 0975-1068 (online) 0972-5938 (print). **Impact factor 1.273.**
19. Devesh Tewari, **Archana Sah**, Hemant Pandey. Comparative Volatile Oil Composition of Three *Ocimum* Species from Western Himalaya. *Journal of Essential Oil Bearing Plants* (Taylor and Francis Publishers), 19(6), 30 November 2016, 1487-1494, ISSN: 0972-060X (Print) 0976-5026 (Online). **Impact factor 0.493.**
20. Devesh Tewari, **Archana N. Sah**. Ethnic Medicinal Knowledge: An Ancient Knowledge for the Healthcare and Livelihood of the People of Indian Himalaya. *SMU Medical Journal*, 3(1), January 2016, 264-274, ISSN: 2349-1604.
21. Devesh Tewari, **Archana N. Sah**, Y.C. Tripathi, ,FkuksQkekZdWkyksth% oSKkfud fo'ys" k.k }kjk ikjEifjd Kku dk IR;kiuA Uttarakhand Council for Science & Technology Magazine (Vigyan Kshitz), 1-2, 2015, 1-4.
22. Devesh Tewari, **Archana N. Sah**, Anupam K. Mangal, Y.C. Tripathi. HPTLC Fingerprinting of *Swertia chirayita* (Roxb. ex Fleming) Karsten from High Altitude Area of Western Himalaya. *Analytical Chemistry Letters*, (Taylor and Francis Publishers), TA CL 5(5) Dec. 2015, 251-259, ISSN: 2229-7928 (Print) 2230-7532 (Online).
23. Devesh Tewari, Hemant K Pandey, **Archana N Sah**, Harsahay Meena, V. Chander, R. Singh, P. Singh. Phytochemical, antioxidant and antidepressant evaluation of *Ocimum basilicum*, *O. tenuiflorum*, *O. kilimandscharicum* grown in India. *Journal of Biologically active Products from Nature* (Taylor and Francis Publishers), August 2015, 5(2), 120-131, ISSN: 2231-1866.
24. A Rawat, M Mohsin, PS Negi, **AN Sah**, S Singh. Evaluation of polyphenolic contents and antioxidant activity of wildy collected *Ganoderma lucidum* from central Himalayan hills of India, *Asian Journal of Plant Science and Research*, 2013, 3(3), 85-90, ISSN: 2249-7412.
25. A Rawat, M Mohsin, **A N Sah**, P S Negi, S Singh. Biochemical estimation of wildy collected *Ganoderma lucidum* from central Himalayan hills of India, Pelagia research library: *Advances in Applied Science Research*, 2012, 3(6), 3708-13.

26. S Patni, **Archana N Sah**, H S Meena, H K Pandey, A Manchanda. Physico-chemical, phyto-chemical and elemental analyses of stem bark and roots of *Berberis asiatica*. Pelagia research library: *Advances in Applied Science Research*, 2012, 3(6), 3624-28.
27. Devesh Tewari, H K Pandey, **A N Sah**, H S Meena, A Manchanda. Pharmacognostical and Biochemical Investigation of *Ocimum kilimandscharicum* plant available in Western Himalayan Region. *Asian J of Plant Science and Research*, 2012, 2(4), 446-51.
28. Devesh Tewari, **Sah A N**, Pandey H K, Meena H S. A Review on Phytoconstituents of *Ocimum* (Tulsi). *International J of Ayurvedic Medicine*, 2012, 3(1), pg 1-9.
29. Devesh Tewari, H K Pandey, **A N Sah**, H S Meena, A Manchanda, P Patni. Pharmacognostic, Biochemical and Elemental Investigation of *Ocimum basilicum* plants available in Western Himalayas. *International J of Research in Pharmaceutical and Biomedical Sciences*, Apl-June 2012, 3(2), 840-45.
30. R.C. Padalia, R.S. Verma, **A. Sah**, N. Karki, A. Chauhan, D. Sakia, and B. Krishna. Study on Chemotypic Variations in Essential Oil of *Cinnamomum tamala* (Buch.-Ham.) Nees et Eberm. and their Antibacterial and Antioxidant Potential. *Journal of Essential Oil Bearing Plants*, 01/2012, 15(5), pg 800-808. **Impact factor 0.29**
31. R C Padalia, N Karki, **A N Sah**, R S Verma. Volatile constituents of leaf and seed essential oil of *Coriandrum sativum* L. *Journal of Essential Oil Bearing Plants*, 09/2011, 14(5), pg 610-16. **Impact factor 0.29**
32. **Archana N. Sah**, Amit Joshi, Vijay Juyal, Tirath Kumar. Antidiabetic and Hypolipidemic Activity of *Citrus medica* Linn. Seed Extract in Streptozotocin Induced Diabetic Rats, *Pharmacognosy Journal*, July 2011, 3(23), pg 80-84, ISSN: 0975-3575.
33. **Archana N. Sah**, Vijay Juyal, Anand B. Melkani. Antimicrobial Activity of Six Different Parts of the Plant *Citrus Medica* Linn. *Pharmacognosy Journal*, April 2011, 3(21), pg 80-83, ISSN: 0975-3575.
34. R C Padalia, R S Verma, **A N Sah**, N Karki, V Sundaresan, D Sakia. Leaf and Rhizome Oil Composition of *Zingiber Officinale* Roscoe and Their Antibacterial and Antioxidant Activities. *Asian Journal of Traditional Medicines*, 01/2011, 6(2), pg 73-82.

35. **Archana N. Sah**, Vijay Juyal, Anand B. Melkani. Analgesic Activity of Fruit Decoction of *Citrus medica* Linn. *Journal of Pharmacy Research*, September 2010, 3(9), pg 2119-21.

36. **Archana N. Sah**, Neha Karki and Neelakshi Singh. Antibacterial Activity of Some Traditionally Used Medicinal Plants. *Herbal Tech Industry*, July 2010, 6(7), pg 7-9.

ii) Papers presented in Conferences/Seminars

Sl. No.	Title of the paper	Title of conference/seminar	Year
1.	Evaluation of Antidepressant Activity of <i>Nyctanthes arbor-tristis</i> Flower Extract on Rat Models of Depression	National Conference on <i>Recent Advances in Ayurvedic Herbal Medicine-From Source to Manufacturing</i> , Dehradun, Uttarakhand Ayurved University.	2017
2.	Phytosomes: Novel carriers for herbal drugs	National Seminar on <i>Emerging Trends in Nanotechnology and Experimental Pharmacology</i> , Devsthali Vidyapeeth, Rudrapur	2015
3.	Evaluation of Antioxidant Activity and Determination of Total Phenolic Content in Leaves of <i>Woodfordia fruticosa</i> Linn	National Seminar cum workshop on <i>Essentia of Today & Tomorrow: Inculcating Advanced Pharmaceutical Skills with Innovative Approach</i> , Dehradun	2015
4.	Antioxidant Activity of Different Parts of <i>Citrus medica</i> Linn.	International Conference on <i>Medicinal Plants: Resource for Affordable New Generation Healthcare</i> , CSIR- CIMAP, Lucknow	2015
5.	Determination of Total Phenolic Content and Evaluation of Antioxidant Activity in Roots of <i>Boerhaavia diffusa</i> ”	National Seminar on Recent Prospectives and Alternatives to Animals on Experimental Pharmacology, Devsthali Vidyapeeth, Rudrapur,	2013
6.	Evaluation of Antioxidant Activity and Determination of Total Phenolic Content in Leaves of <i>Bauhinia variegata</i> Linn.	Annual Convention of Society of Pharmacognosy & International Symposium on Frontier in Herbal Cosmetics and Nutraceuticals, Dehradun	2013
7.	Evaluation of Anthelmintic Activity of <i>Citrus medica</i> Linn. Root	India Pharma Convention, DIPSAR, New Delhi	2012
8.	Preliminary Phytochemical and Antibacterial Evaluation of <i>Myrica esculenta</i> Buch.-Ham. Bark	National Convention on Global Needs for Standardization of Herbal Drugs, Department of Pharmacy, Bijnor	2011
9.	Hypolipidemic Activity of <i>Citrus medica</i> Linn. Seed Extract in Streptozotocin Induced Diabetic Rats	National Seminar on Role of Medicinal Plants in Health Care, Barabanki	2011

10.	Antidiabetic Activity of <i>Citrus medica</i> Linn. Seed Extract in Streptozotocin Induced Diabetic Rats	Indian Pharmaceutical Congress , Manipal University, Manipal	2010
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iii) Articles/review articles published in books:

Sl. No.	Title of the paper/authors	Title of the book	Editor/Publisher	Year of publication	Page No.
1.	Relation of Food Additives with Adverse Health Effects/ D. Tewari, P. Patni, S. Bawari, Archana N. Sah	Food Additives and Human Health	Bentham Science Publishers	2020	269-277
2.	Antioxidants and Smoking/ Tanuj Joshi, Archana N Sah	Oxidative Stress and Antioxidant Defense: Biomedical Value in Health and Disease	Nova Science Publishers, New York	2018	57-72
3.	Borage (<i>Borago officinalis</i> L.) and its pharmaceutical significance/ D. Tewari, S. Bawari, P. Patni, Archana N. Sah	Nonvitamin and Nonmineral Nutritional Supplements	Elsevier	2018	165-170
4.	Ageing and Ethnopharmacology/ D. Tewari, Archana N. Sah , P. Patni, S. Bawari	Ageing and Health care in India: Issues & Challenges” September	Edited by Hari Singh Bisht, Indu Book Services, New Delhi,	2018	99-108
5.	Plants with polyphenols from Uttarakhand: opportunities and challenges/ Archana N. Sah , S. Bawari, D. Tewari	Natural Resources and Biodiversity of Uttarakhand, November	Edited by Mahesha Nand, Lambert Academic Publishing	2017	45-60
6.	Traditional health practices of Kumaoni women/ Archana Negi Sah .	Contemporary Research Papers of Social Sciences: Vol. III: Empowerment of Rural Women: Status Challenges and Solutions	Edited by P. Lakhera, R. C. Paliwal and K. Lakhera, Mallika Books	2011	

iv) IPR Registered/Award: Applied for a patent, **Indian Patent Application No 201811034116A**

10. Conference/Seminar /Workshop/Training organized:

Sl. No.	Status as organizer	Title of the conference/seminar	Year and dates
1.	Co-convenor	Workshop on <i>Brief History & Indian Context of Regulatory Affairs</i>	21 December 2016.
2.	Co-convenor	Training on HPLC	2018

11. Academic/Administrative positions held:

Sl. No.	Chairman/Member/Secretary	Committee/Authority	Year (From-To)
1.	Dean	Faculty of Technology, Kumaun University, Nainital	2019-present
2.	Head	Department of Pharmaceutical Sciences, Kumaun University,	2019-present
3.	Convenor	Research Degree Committee, Kumaun University, Nainital	2019-present
4.	Member	Academic Council, Kumaun University, Nainital	2019
5.	Member	Faculty Board, Faculty of Technology, Kumaun University, Nainital	
6.	Member	Institute Ethics Committee (IEC), Regional Ayurveda Research Institute (RARI), Tarikhet, CCRAS, New Delhi	2020-present
7.	Hostel Warden	Girls Hostel, Bhimtal Campus, Kumaun University	2009-2011 and 2017-2018
8.	Assistant Dean Students Welfare	DSW Board, D. S. B. Campus, Kumaun University, Nainital	2010-2011 and 2017-2019
9.	Member: Advisory Committee	Continuing education Programme (CEP for Diploma Pharmacist, Uttarakhand Pharmacy Council, Dehradun	2013
10	Incharge	Departmental Examination Cell	2010-2014 and 2017-present

12. Membership to professional Organization/Associations:

Sl. No.	Name of the Association/Organizations	Status of the membership
1.	International Natural Product Sciences Taskforce (INPST)	Member
2.	Association of Pharmaceutical Teachers of India (APTI)	Life member
3.	Uttarakhand State Pharmacy Council	Registered Pharmacist

13. Any other Information:

Trainings/Courses Attended:

- DBT, Govt. of India Sponsored National Workshop on “Big Data and Cloud Computing in Bioinformatics” held at Bioinformatics Infrastructure Facility, Dept of Biotechnology, Kumaun University, Bhimtal Campus, 15 March 2018.
- Workshop on HPLC, Department of Pharmaceutical Sciences, Kumaun University, Bhimtal Campus, from 17-23 May 2017.
- UGC Sponsored Short Term Course at UGC Human Resource Development Centre, Kumaun University Nainital, from 13 -19 October 2016.
- Workshop on CADD Software (Inventus v 1.1), CIF Department of Pharmaceutical Sciences, Kumaun University, Bhimtal Campus, October 3-8 2016.
- Summer school/ Refresher Course in *Science and Society* held at HRDC Kumaun University Nainital, from 9th June 2015 to 29th June 2015.
- D.B.T. sponsored Training on “*Structure and Sequence Bioinformatics*” held at Bioinformatics Infrastructure Facility, Department of Biotechnology Kumaun University, Nainital on 22-23 March 2012.
- National Training on “*Bioinformatics & its Application in Drug Designing*” held at Bioinformatics Infrastructure Facility, Department of Biotechnology Kumaun University, Nainital on 22-23 March 2011.
- Refresher Course in *Information Technology Applications* held at SSJ campus Almora conducted by Academic Staff College, Kumaun University Nainital, from 19th July 2010 to 8th August 2010.
- Orientation Programme at Academic Staff College Kumaun University Nainital, from 14th March 2009 to 10th April 2009.

Date: 26-05-2020

Dr. Archana N Sah

Place: Bhimtal (Nainital)