

Dr. Deepak Kumar Semwal

Assistant Professor

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<https://www.scopus.com/authid/detail.uri?authorId=25655385600>

ACADEMIC

D.Phil. (2009) in Phytochemistry from HNB Garhwal University, Srinagar, UK, India. Advisor: Dr. U. Rawat

M.Sc. (2005) in Organic Chemistry with 70.92% from HNB Garhwal University, Srinagar, UK, India.

POSTDOCTORAL EXPERIENCE

1. UGC-Dr DS Kothari Postdoctoral Fellow (2010-2013) in the Department of Chemistry, Panjab University, Chandigarh, India. Advisor: Prof. G.J.P. Singh
2. TUT/NRF-Postdoctoral Fellow (2013-2015) in the Department of Pharmaceutical Sciences, Tshwane University of Technology, Pretoria, South Africa. Advisor: Prof. A.M. Viljoen

TEACHING & INDUSTRIAL EXPERIENCE

1. Taught Graduate and Post-graduate classes in Chemistry, Biotechnology and Pharmaceutical Chemistry departments in Garhwal University, Srinagar during 2005-2010.
2. Taught Graduate classes in the Department of Applied Sciences, G.B. Pant Govt. Engineering College, Pauri Garhwal during 2007-2008.
3. Taught graduate classes in the Department of Chemistry, Panjab University, Chandigarh during 2010-2013.
4. Supervised Undergraduate and Master Students in the Department of Pharmaceutical Sciences, Tshwane University of Technology, South Africa from 2013 to 2015.
5. Industrial experience in R&D of an India based pharmaceutical industry.

ADMINISTRATIVE EXPERIENCE

1. Officer on Special Duty (OSD) to Vice Chancellor, Uttarakhand Ayurved University, Dehradun.
2. Member secretary of Research Degree Committee (RDC) of Uttarakhand Ayurved University during 2015-16 and 2016-17.
3. Observer/ Coordinator for various examinations of the University.
4. Nodal officer for adopting villages at university level, and for TV 100 awards-2017.

REVIEWING EXPERIENCE

Presently, I review for many peer reviewed journals of international repute; few selected publishers/ journals are as following-

1. Elsevier, Netherlands (J. Ethnopharmacol.; Phytochem. Lett.; Pathophysiology; Studies Nat. Prod. Chem.; Rev. Bras. Farmacogn.; S. Afr. J. Bot.; J. Ayurveda Integr. Med.; Biomed. Pharmacother.)
2. Springer, Germany (BMC Complement. Alternat. Med.)
3. Taylor & Francis, United Kingdom (Nat. Prod. Res.; Pharm. Biol.; J. Liq. Chromatogr. Relat. Technol.)
4. John Wiley & Sons, United States (Phytochem. Anal.; Br. J. Pharmacol.; J. Food Biochem. J. Diabetes)
5. Bentham Science, United Arab Emirates (Mini Rev. Org. Chem.; Curr. Drug Discov. Technol.; Nat. Prod. J.; Curr.

Cancer Drug Targets; Curr Bioact Compd.; Curr. Nutr. Food Sci.; Anticancer Agents Med. Chem.; Cent. Nerv. Syst. Agents Med. Chem.)

6. American Chemical Society, United States (J. Agric. Food Chem.)
7. Science Alert, United Arab Emirates (J. Appl. Sci.; Asian J. Sci. Res.; Am. J. Drug Discov. Devel.)
8. Oxford University Press, United Kingdom (J. Chromatogr. Sci.)
9. Thieme Publishers, United States (Planta Med. Lett.)
10. Wolters Kluwer, India (Pharmacogn. Mag.)
11. Indian Academy of Sciences, India (Curr. Sci.)
12. CSIR-NISCAIR, India (Indian J. Nat. Prod. Resour.; Indian J. Exp. Biol.)
13. Ivyspring International Publisher, Australia (J. Cancer)

EDITORIAL EXPERIENCE

Presently, I am associated with following peer reviewed journals -

S.No.	Journal	Role
2	Current Clinical Pharmacology (Bentham Science, United Arab Emirates)	Editorial Board Member
3	Singapore Journal of Chemical Biology (Science Alert, United Arab Emirates)	Editor-in-Chief
4	Journal of Natural Remedies (Informatics Journals, India)	Editorial Board Member
5	Elyns Journal of Pharmaceutical Research (Elyns Publishing, United States)	Editorial Board Member
6	Ayurscientifica (Uttarakhand Ayurved University, India)	Editor-in-Chief
7	Journal of Conventional Knowledge and Holistic Health (Global SciTech Ocean, India)	Editor-in-Chief
8	Journal of Precision Medicine and Public Health (Clyto Access, United States)	Editorial Board Member
9	Current Medical and Drug Research (Global SciTech Ocean, India)	Editorial Board Member
10	Pharmacologia (Science Alert, United Arab Emirates)	Editorial Board Member
11	Insight Pharmaceutical Sciences (Insight Knowledge Ltd. England)	Editorial Board Member
12	Journal of Public Health International (Open Access Pub, USA)	Editorial Board Member

GRANTS/ PROJECTS COMPLETED/ ONGOING/ ACCEPTED

S.No.	Title	Status	Duration	Cost	Agency
1	Chemical examination and antidiabetic evaluation of selected Liliaceae and Fabaceae plants of Central Himalaya	Completed	2010-2013	15.528 Lakh	UGC
2	Intervention Technologies in Health Sciences: Isolating bioactive molecules from indigenous medicinal plants of South Africa	Completed	2013-2014	15.0 Lakh	TUT, RSA
3	Quality control and assurance of commercial medicinal and cosmetic products of plants origin	Completed	2014-2015	15.0 Lakh	NRF, RSA
4	Recent Advances in Ayurvedic Herbal Medicine: From Source to Manufacturing	Completed	2016-2017	5.0 Lakh	NMPB
5	Exploring plant-derived SGLT2 inhibitors to treat type-2 diabetes and unraveling their structure activity relationship	Ongoing	2017-2020	37.49 Lakh	NMPB
6	Establishment of herbal garden at Uttarakhand Ayurved University for the promotion of medicinal and aromatic plants	Ongoing	2018-2023	8.1 Lakh	NMPB

MEMBERSHIPS

1. Lifetime member of Vigyan Bharati (VIBHA), India, 2018, membership No. 20237.
2. Lifetime member of Asian Chemical Society, India, membership No. ACS/2018/LM437.
3. Member of Asian Council of Science Editors (ACSE), UAE, Since 2015. (Membership No. 91.516).
4. Member of "Discovery of Sanjeevani" committee of Govt. of Uttarakhand - 2016.
5. Member of AYUSH drugs and cosmetics licensing committee, Govt. of Uttarakhand, 2018.

AWARDS/ FELLOWSHIPS/ RECOGNITIONS

1. Publons Peer Reviewer Awards (Top 1%) for multidisciplinary category in 2017 and Assorted category in 2018.
2. CSIR-HRDG (Govt. of India) and UCOST (Govt. of Uttarakhand) Travel Grant for International Conference on Traditional Medicine, Phytochemistry and Medicinal Plants organized by United Scientific Group, USA during October 15-17, 2018 at Tokyo, Japan.
3. Research and innovation award 2014 in alternative medicine from Tshwane University of Technology, South Africa on 01 October 2015.
4. Postdoctoral Fellowship from National Research Foundation, Govt. of South Africa for 2014-15.
5. Postdoctoral Fellowship from Tshwane University of Technology, Pretoria, South Africa for 2013-14.
6. NRF-Travel Grant for International conference in Bangkok, Thailand during 18-19 December 2014.
7. Postdoctoral Fellowship from UGC, New Delhi under Dr. D.S. Kothari PDF Scheme, for 2010-13.
8. Young Scientist award for best oral paper presentation in 8th National Convention of Chemistry Teachers on 8-9 November 2008 at Srinagar.

KEYNOTES/ INVITED SPEAKER

1. Invited talk in Second International Conference on Holistic Medicine, held on 11-13 September, 2011 in Kerala, India.
2. Invited speaker in National conference on conservation and sustainable utilisation of high altitude medicinal and aromatic plants of Uttarakhand Himalayas, organised by SMPB, Uttarakhand and HRDI, Gopeshwar on 10-11 November 2017 at Dehradun, India.
3. Invited speaker in International Conference on Traditional Medicine, Phytochemistry and Medicinal Plants October 15-17, 2018 at Tokyo, Japan.

ORGANISER OF CONFERENCES/ WORKSHOPS

1. Organizing Secretary of the National Conference on Recent advances in Ayurvedic herbal medicine – From source to manufacturing sponsored by NMPB (Ministry of AYUSH) on 15 and 16 September 2017 at CSIR-IIP Dehradun.
2. Organizing Secretary of National Conference on AYUSH Uttarakhand Jointly organized by Uttarakhand Ayurved University and PHD Chamber of Commerce and Industry, on 17th June 2016 at Dehradun.
3. Organizing Secretary of Uttarakhand Ayurveda Conference organized by AYUSH Health India at Doon University, Dehradun on July 01, 2017.
4. Member of organizing committee of International Conference on Traditional Medicine, Phytochemistry and Medicinal Plants October 15-17, 2018 at Tokyo, Japan.
5. Member of International advisory committee for the Fifth Euro-India International Conference on Holistic Medicine (ICHM2015) organised by Institute for Holistic Medical Sciences, Kerala and Ayurveda-und Venen-Klinik, Austria on 11-13 September 2015, in Kottayam, Kerala, India.
6. Member of International Scientific Committee of ICIT 2017 : 19th International Conference on Immunological Techniques, Organised by World Academy of Science, Engineering and Technology on December 18-19, 2017 in London, United Kingdom.
7. Member of International Scientific Committee of ICBIHD 2018 : 20th International Conference on Bacterial Infection and Host Defense, Organised by World Academy of Science, Engineering and Technology on June 6 - 7, 2018 in San Francisco, USA.

TRAINING AND WORKSHOP

1. Certificate course in Office Application; Computer fundamentals; good hand in MS Office; Chemistry software like Chemdraw and Chems sketch; Internet etc. from NIIT/SIIT, Srinagar
2. Workshop on “Solar photovoltaic system”, organized by REEEP New Delhi and Dept of Physics, HNB Garhwal University held on 26-28 March 2008 at Srinagar Garhwal.
3. Short training on “Operation and handling of sophisticated analytical instruments” organized by Indian Institute of Petroleum, Dehradun, during 12-13 January 2005.
4. Training on “Youth welfare program for students” organized by NSS, HNB Garhwal Srinagar, during 19-28 February 2002.

RESEARCH FIELDS OF INTEREST

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|---|--|---|--|
| 1 | Discovery and development of Herbal Medicines | 3 | Natural Products synthesis |
| 2 | Concepts of Diabetes, Inflammation and aging in Ayurveda | 4 | Anticancer agents from natural sources |
| | | 5 | Drug Delivery |

RESEARCH SUPERVISION

02 PhD students are presently working under my supervision.

1. **Ankit Kumar**
2. **Sonali Aswal**

06 MD Scholars are presently enrolled under my co-supervision.

1. **Hari Mohan Chahal** (Title: A comparative phytochemical analysis of Bala (*Sida cordifolia* L.) and its market samples; 2016-19)
2. **Sanjay Kumar Biswas** (Title: Phytochemical study of Ashwagandha patra swaras and its clinical efficacy in obesity; 2016-19)
3. **Preeti Pandey** (Title: Analytical and antifungal studies of Chakramard seed and Gomutra Bhavita Chakramard seed)
4. **Prabhakar Shukla** (Title: Pharmacognostical, phytochemical and experimental studies of *Selaginella bryopteris* L. (Sanjeevani/ Agnijari) with its antihepatotoxic and antimicrobial activities)
5. **Vijeta Rani** (Title: A comparative pharmacognostical and phytochemical study of Gambhari and Pani gambhar)
6. **Poonam Vijlwan** (Title: Analytical and comparative antipyretic studies of Chirayata (*Swertia chirata*) and Neelkanthi (*Ajuga bracteosa*))

PUBLICATIONS

1. Kumar A, Aswal S, Semwal RB, Chauhan A, **Semwal DK**. Insights on the Pharmacological, Phytochemical and Ethnobotanical Aspects of *Artemisia roxburghiana* - A rather less explored but therapeutically important species of lower Himalayas. *Phytochemistry Reviews*. **2018**. DOI: 10.1007/s11101-018-9589-6. IF 3.875
2. Semwal R, Semwal RB, **Semwal DK**. Mucoadhesive assessment – An encyclopedic review. *Current Medical and Drug Research*. 2 (2), Article ID 187, **2018**.
3. Chandra S, Saklani S, **Semwal DK**, Semwal RB. Estimation of nutritional and mineral contents of *Eleusine coracana* and *Echinochloa frumentacea* – Two edible wild crops of India. *Current Nutrition & Food Science*. **2018**. DOI: 10.2174/1573401314666180327160353.
4. Semwal RB, Semwal DK, Aswal S, Kumar A. Spectral studies and pharmacological relevance of berberine isolated from *Berberis aristata* roots. *Current Medical and Drug Research*. **2018**; 2; 181.
5. Semwal R, Upadhyaya K, Semwal RB, **Semwal DK**. Acceptability of Nose-to-Brain Drug Targeting in Context to its Advances and Challenges. *Drug Delivery Letters*. 8 (1), 20-28, **2018**.
6. Bhatt U, Sati SC, Bahuguna RP, Semwal RB, **Semwal DK**. Two antidiabetic constituents from *Roylea cinerea* (D.Don) Baill. *Natural Product Research*. **2018**. 32(11):1281-1286. IF 1.928

7. Vinothini K, Sri Devi M, Shalini V, Sekar S, Semwal RB, Arjun P, **Semwal DK**. In vitro micropropagation, total phenolic content and comparative antioxidant activity of different extracts of *Sesbania grandiflora* (L.) Pers. **Current Science**. 2017; 113 (6), 1142-7. IF 0.883
8. Yadav C, Chaubey S, Kurele R, Semwal DK. Sanjeevani booti - A majestic and elusive all curing divine herb in epic Ramayana. **Journal of Conventional Knowledge and Holistic Health**, 2017; 1 (1), Article ID 173.
9. Chauhan A, Ojha R, **Semwal DK**, Mishra SP, Semwal RB. Combined treatment with CCI779 and SB203580 induces cellular senescence in renal cell carcinoma cell line via p53 pathway. **Anti-Cancer Agents in Medicinal Chemistry**. 2017. 17(11), 1545-1554. IF 2.556
10. Chauhan A, Semwal RB, **Semwal DK**. Ayurvedic approaches used in prevention and treatment of type 2 diabetes mellitus. **Journal of Conventional Knowledge and Holistic Health**, 2017; 1 (1), Article ID 172.
11. Chauhan A, **Semwal DK**, Mishra SP, Semwal RB. Ayurvedic concept of Shatkriyakala: a traditional knowledge of cancer pathogenesis and therapy. **Journal of Integrative Medicine**. 2017;15(2),88–94.
12. Chauhan A, **Semwal DK**, Mishra SP, Semwal RB. Yoga practice improves the body mass index and blood pressure - A randomized controlled trial. **International Journal of Yoga**. 2017; 10 (2), 103-6.
13. Arjun P, **Semwal DK**, Semwal RB, Malaisamy M, Sivaraj C, Vijayakumar S. Total phenolic content, volatile constituents and antioxidative effect of *Coriandrum sativum*, *Murraya koenigii* and *Mentha arvensis*. **The Natural Products Journal**. 2017;7(1),65-74.
14. Chauhan A, **Semwal DK**, Semwal RB, Mishra SP. Speckle-type POZ protein acts as a predictive biomarker for mTOR target therapy in renal cell carcinoma. **Current Science**. 2016;111(12),2014-9. IF 0.883
15. **Semwal DK**, Semwal RB, Combrinck S, Viljoen A. Myricetin: A Dietary Molecule with Diverse Biological Activities. **Nutrients**. 2016;8(2),90. IF 4.196
16. Chauhan A, **Semwal DK**, Mishra SP, Semwal RB. Combination of mTOR and MAPK Inhibitors—A Potential Way to Treat Renal Cell Carcinoma. **Medical Sciences**. 2016, 4(4), 16.
17. **Semwal DK**, Chauhan A, Mishra SP, Semwal RB. Recent Development in Yoga: A Scientific Perspective. **Journal of AYUSH: Ayurveda, Yoga, Unani, Siddha and Homeopathy**. 2016;5(1),14-20.
18. **Semwal DK**, Semwal RB, Chauhan A, Mishra SP. Treatment of type 2 diabetes with Ayurveda: A case report. **Pharmacologia**. 2016;7(4),239-242.
19. Chauhan A, **Semwal DK**, Mishra SP, Semwal RB. Ayurvedic research and methodology: Present status and future strategies. **Ayu**. 2015; 36(4),364-9.
20. **Semwal DK**, Semwal RB. Discovery of natural SGLT2-inhibitors for type 2 diabetes – Possible way to reduce side effects. **Journal of Natural Remedies**. 2015;15(2),86-87.
21. Semwal RB, **Semwal DK**, Combrinck S, Viljoen A. Gingerols and shogaols: Important nutraceutical principles from ginger. **Phytochemistry**. 2015;117,554–568. IF 3.186
22. Semwal RB, **Semwal DK**, Vermaak I, Viljoen A. A comprehensive scientific overview of *Garcinia cambogia*. **Fitoterapia**. 2015; 102 (1),134-48. IF 2.642
23. **Semwal DK**, Mishra SP, Chauhan A, Semwal RB. Adverse health effects of tobacco and role of Ayurveda in their reduction. **Journal of Medical Sciences**. 2015,15(3),139-46.
24. Semwal RB, **Semwal DK**, Combrinck S, Viljoen A. Butein: From ancient traditional remedy to modern nutraceutical. **Phytochemistry Letters**. 2015;11(1),188-201. IF 1.575
25. Chandel S, Bagai U, Semwal RB, **Semwal DK**. Antiplasmodial activity of aqueous extract of *Berberis aristata* roots against *Plasmodium berghei* infected BALB/c mice. **Pharmaceutical Biology**. 2015;53 (12),1735-1740. IF 1.918
26. Semwal RB, **Semwal DK**, Mishra SP, Semwal R. Chemical composition and antibacterial potential of essential oils from *Artemisia capillaris*, *Artemisia nilagirica*, *Citrus limon*, *Cymbopogon flexuosus*, *Hedychium spicatum* and *Ocimum tenuiflorum*. **The Natural Products Journal**. 2015,5(3),199-205.
27. **Semwal DK**, Semwal RB. Efficacy and safety of *Stephania glabra*: An alkaloid-rich traditional medicinal plant. **Natural Product Research**. 2015; 29(5),396-410. IF 1.928
28. Arjun P, **Semwal DK**, Semwal RB, Mishra SP, Vijayan AB, Krishnamoorthy M. Quality Retention and Shelf-Life Improvement of Fresh-cut Apple, Papaya, Carrot and Cucumber by Chitosan-Soy Based Edible Coating. **Current Nutrition and Food Science**. 2015, 11 (4), 282-291.
29. Mishra SP, **Semwal DK**, Chauhan A. Scenario of Ayurveda Education in India: Some recommendations for development. **University News- Association of Indian Universities**. 2015;53(42):3-8.
30. **Semwal DK**, Semwal RB, Ahmad A, Kamatou GP, Viljoen AM. Inhibitory effects of extracts and isolates from *Kigelia africana* fruits against pathogenic bacteria and yeasts. **International Journal of Biological, Biomolecular, Agricultural, Food and Biotechnological Engineering**. 2014;8(12):1321-6.

31. Semwal DK, Semwal RB, Singh G. Benzoquinone derivative and sarsasapogenin glycoside from *Asparagus curillus*. *Chemistry of Natural Compounds*. 2014;50(5):865-867. IF 0.450
32. Semwal RB, Semwal DK, Badoni PP, Kapoor P. Dyeing performance of aqueous extract and flavanone glycosides from the flowers of *Butea monosperma* (Lam.) Kuntze. *Records of Natural Products*. 2014;8(1):66-70. IF 1.311
33. Semwal R, Semwal RB, Semwal DK. A gastroretentive drug delivery system of lisinopril imbedded on isabgol-husk. *Current Drug Delivery*. 2014;11(3):371-9. IF 2.078
34. Semwal DK, Semwal RB, Vermaak I, Viljoen A. From arrow poison to herbal medicine - The ethnobotanical, phytochemical and pharmacological significance of *Cissampelos* (Menispermaceae). *Journal of Ethnopharmacology*. 2014;155(2):1011-28. IF 3.115
35. Semwal RB, Semwal DK, Combrinck S, Cartwright-Jones C, Viljoen A. *Lawsonia inermis* L. (henna): Ethnobotanical, phytochemical and pharmacological aspects. *Journal of Ethnopharmacology*. 2014; 155(1):80-103. IF 3.115
36. Semwal DK, Semwal RB, Singh G. Androstane-type steroidal glycoside from the roots of *Asparagus curillus* buch.- ham. ex roxb. *Helvetica Chimica Acta*. 2013;96(3):520-4. IF 1.081
37. Semwal DK, Semwal RB. Ethnobotany, pharmacology and phytochemistry of the genus *Phoebe* (Lauraceae). *Mini-Reviews in Organic Chemistry*. 2013;10(1):12-26. IF 0.722
38. Sharma A, Sati SC, Sati OP, Sati MD, Kothiyal SK, Semwal DK, Mehta A. A new triterpenoid saponin and antimicrobial activity of ethanolic extract from *Sapindus mukorossi* gaertn. *Journal of Chemistry*. 2013; Article ID 218510. IF 1.726
39. Satheesh Madhav NV, Semwal R, Semwal DK, Semwal RB. Recent trends in oral transmucosal drug delivery systems: An emphasis on the soft palatal route. *Expert Opinion on Drug Delivery*. 2012;9(6):629-47. IF 5.553
40. Semwal DK, Semwal RB, Semwal R. Antibacterial activity of 8-(4'-methoxybenzyl)-xylopinine from *Stephania glabra* tubers. *Pharmacologia*. 2012;3(10):539-41.
41. Semwal RB, Semwal DK. Analgesic and anti-inflammatory activities of extracts and fatty acids from *Celtis australis* L. *The Natural Products Journal*. 2012;2(4):323-27.
42. Kothiyal SK, Sati SC, Rawat MSM, Sati MD, Semwal DK, Semwal RB, Sharma A, Rawat B, Kumar A. Chemical constituents and biological significance of the genus *Ilex* (Aquifoliaceae). *The Natural Products Journal*. 2012;2(3):212-24.
43. Semwal RB, Semwal DK, Kapoor P. Dyeing properties of *Berberis aristata* DC with natural and synthetic mordants. *Trends in Applied Sciences Research*. 2012;7(5):392-99.
44. Badoni R, Semwal DK. Dyeing performance of *Symplocos paniculata* and *Celtis australis*. *Asian Dyer*. 2011;8(6):51-8.
45. Semwal DK, Semwal RB, Semwal R, Jacob V, Singh G. Analgesic and antipyretic activities of gindarudine, a morphine alkaloid from *Stephania glabra*. *Current Bioactive Compounds*. 2011;7(3):214-7.
46. Semwal RB, Semwal DK, Semwal R, Singh R, Rawat MSM. Chemical constituents from the stem bark of *Symplocos paniculata* thunb. with antimicrobial, analgesic and anti-inflammatory activities. *Journal of Ethnopharmacology*. 2011;135(1):78-87. IF 3.115
47. Badoni R, Semwal DK, Rawat U, Rawat MSM. Chemical constituents from fruits and stem bark of *Celtis australis* L. *Helvetica Chimica Acta*. 2011;94(3):464-73. IF 1.081
48. Badoni R, Semwal DK, Badoni PP, Kothiyal SK, Rawat U. A novel bacteriohopanoid from *Celtis australis* L. bark. *Chinese Chemical Letters*. 2011;22(1):81-4. IF 2.631
49. Rawat U, Joshi V, Semwal DK, Bamola A, Semwal S, Badoni R, Sati OP. Triterpenoidal saponin and phenolic glycosides of *Rhododendron barbatum* flowers. *Medicinal Plants*. 2011;3(1):73-76.
50. Kothiyal SK, Sati SC, Sati MD, Rawat B, Sharma A, Semwal DK, Badoni R, Rawat MSM. The Alkaloids: Genus *Daphniphyllum* (Daphniphyllaceae). *International Research Journal of Pharmacy*. 2011;2(2):13-21.
51. Badoni R, Semwal DK, Kothiyal SK, Rawat U. Chemical constituents and biological applications of the genus *Symplocos*. *Journal of Asian Natural Products Research*. 2010;12(12):1069-80. IF 1.091
52. Semwal R, Semwal DK, Badoni R. Chewing gum: A novel approach for drug delivery. *Journal of Applied Research*. 2010;10(3):115-23.
53. Semwal DK, Badoni R, Semwal R, Kothiyal SK, Singh GJP, Rawat U. The genus *Stephania* (Menispermaceae): Chemical and pharmacological perspectives. *Journal of Ethnopharmacology*. 2010;132(2):369-83. IF 3.115
54. Semwal R, Semwal DK, Badoni R, Gupta S, Madan AK. Targeted drug nanoparticles: An emphasis on self-assembled polymeric system. *Journal of Medical Sciences*. 2010;10(5):130-7.
55. Badoni R, Semwal DK, Rawat U, Singh GJP. Celtisanin, a novel sulphonated phenolic from *Celtis australis* L. fruits. *Natural Product Research*. 2010;24(13):1282-6. IF 1.928

56. Semwal DK, Rawat U, Badoni R, Semwal R, Singh R. Anti-hyperglycemic effect of *Stephania glabra* tubers in alloxan induced diabetic mice. *Journal of Medicine*. 2010;11(1):17-9.
57. Semwal DK, Rawat U, Semwal R, Singh R, Singh GJP. Anti-hyperglycemic effect of 11-hydroxypalmatine, a palmatine derivative from *Stephania glabra* tubers. *Journal of Asian Natural Products Research*. 2010;12(2):99-105. IF 1.091
58. Badoni R, Semwal DK, Rawat U. Fatty acid composition and antimicrobial activity of *Celtis australis* L. fruits. *Journal of Scientific Research*. 2010;2(2):397-402.
59. Kothiyal SK, Semwal DK, Badoni R, Rawat U. GC-MS analysis of fatty acid and antimicrobial activity of *Ilex dipyrena* Wallich leaves. *Asian Journal of Traditional Medicine*. 2010;5(4):153-57.
60. Badoni R, Semwal DK, Rawat U. Composition variation in essential oils of *Artemisia nilagirica* and *Artemisia capillaris*, growing in India. *Journal of Applied and Natural Science*. 2010;2(1):30-33.
61. Semwal R, Semwal DK, Madan AK, Paul P, Mujaffer F, Badoni R. Dendrimers: A novel approach for drug targeting. *Journal of Pharmacy Research*. 2010;3(9):2238-47.
62. Kothiyal SK, Semwal DK, Badoni R, Rawat U, Sati SC, Rawat MSM. Seasonal variation in the essential oil composition from *Morina longifolia* wallich. *International Journal of Essential Oil Therapeutics*. 2009;3(4):171-4.
63. Badoni R, Semwal DK, Rawat U. Altitudinal variation in the volatile constituents of *Artemisia nilagirica*. *International Journal of Essential Oil Therapeutics*. 2009;3(2-3):66-68.
64. Semwal DK, Rawat U, Semwal R, Singh R, Krishan P, Singh M, Singh GJP. Chemical constituents from the leaves of *Boehmeria rugulosa* with antidiabetic and antimicrobial activities. *Journal of Asian Natural Products Research*. 2009;11(12):1045-55. IF 1.091
65. Rawat U, Semwal S, Semwal DK, Badoni R, Bamola A. A new flavonoid glycoside from *Salix denticulata* aerial parts. *Molbank*. 2009;2009(3):1-5.
66. Badoni R, Semwal DK, Sati SC, Rawat U. Optimization of dyeing procedure on wool yarn with *Pistacia integerrima* dye using synthetic and natural mordants. *Colourage*. 2009;56(9):67-70.
67. Semwal DK, Rawat U. Gindarudine, a novel morphine alkaloid from *Stephania glabra*. *Chinese Chemical Letters*. 2009;20(7):823-6. IF 2.631
68. Semwal DK, Rawat U, Semwal R, Singh K, Singh R, Saini B, Krishnan P, Singh M. Hypoglycemic effect of *Phoebe lanceolata* on alloxan-induced diabetic mice. *Pharmacologyonline*. 2009;1:1021-6.
69. Bamola A, Semwal DK, Semwal S, Rawat U. Flavonoid glycosides from *Myrica esculenta* leaves. *Journal of the Indian Chemical Society*. 2009;86(5):535-6. IF 0.204
70. Semwal DK, Rawat U. Antimicrobial hasubanalactam alkaloid from *Stephania glabra*. *Planta Medica*. 2009;75(4):378-80. IF 2.494
71. Semwal DK, Rawat U, Bamola A, Semwal R. Antimicrobial activity of *Phoebe lanceolata* and *Stephania glabra*; preliminary screening studies. *Journal of Scientific Research*. 2009;1(3),662-66.
72. Semwal DK, Rawat U, Singh GJP. Further aporphine alkaloids from *Phoebe lanceolata*. *Molbank*. 2008;2008(3), M581.
73. Semwal DK, Rawat U. Nordelphorphine alkaloid from bark of *Phoebe lanceolata*. *Oriental Journal of Chemistry*. 2007;23(2):771-72.
74. Semwal DK, Rawat U. Physico-chemical examination of drinking water sample in and near Srinagar city (Uttarakhand). *Acta Ciencia Indica*. 2007;33C(3):231-32.
75. Kandwal D, Bamola A, Semwal S, Semwal DK, Rawat U. Phytochemicals from *Rhamnus triqueter*. *Acta Ciencia Indica*. 2007;33C(4):389-90.
76. Semwal DK, Bamola A, Rawat U. Chemical constituents from some antidiabetic plants. *Universities' Journal of Phytochemistry and Ayurvedic Heights*. 2007;2(3):40-48.

BOOKS/BOOK CHAPTERS

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