


Curriculum Vitae

Full Name:	Dr. MONA SEMALTY			
Designation:	Assistant Professor Co-Coordinator, SWAYAM Cell			
Department:	Pharmaceutical Sciences			
Campus:	Srinagar/Chauras			
Telephone:	01370267395	Fax:		
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Email	monasemalty@gmail.com , mona.semalty@hnbgu.ac.in			
Education Qualification:	M. Pharm. (Pharmaceutics), MBA (Operations Management); Ph. D.			
Teaching Experience:	19 Years	Research Experience:	17 Years	
Research Interest and Fields of Specialization				
<ul style="list-style-type: none"> • Herbal drug delivery for obesity and hair loss • Cyclodextrin and lipid complexes (phytosomes) • Micro and nanoparticles for drug delivery • OER and MOOC development • Academic Writing, Research Methodology 				
Honours & Awards				
<ul style="list-style-type: none"> • MOOCs listed in Class Central's Best Online Courses of All Time (2021 Edn.); My SWAYAM online courses, "Academic Writing" and "Industrial Pharmacy" are figured in Class Central's Best Online Courses of All Time (2021 Edn.). The ranking contains 150 courses from 100+ universities based on 170000 + learner reviews (https://www.classcentral.com/report/top-moocs-2021-edition/; https://www.classcentral.com/collection/top-free-online-courses?page=6) • MOOC figured in global top 30 MOOCs in 2020: Academic Writing SWAYAM online course was recognized as the top 30 MOOCs worldwide (as per PIB, 27th April press release; https://pib.gov.in/PressReleasePage.aspx?PRID=1618725). • Best Research paper in national Conference 				
Member of Academic Institutions				
<ul style="list-style-type: none"> • Scientific Expert- Ministry of Institution and University Research (MIUR), Italy 				
Membership of Scientific Organizations				
<ul style="list-style-type: none"> • Expert DST-SERB, Govt. of India • Life Member of APTI (UA/LM/028) and IPA (RJ/LM/052). • Peer reviewer- various major publishers (Springer, Elsevier, Betham, Taylor& Francis, Medknow, Kluwer etc.) of journals of repute • Executive Member of APTI Women's Forum Uttarakhand (2016-19) 				
Research Supervision (No. of Ph.D. Degree Awarded/Submitted/Registered)				
25 M. Pharm. Project guided. 01 M. Pharm. Project registered. 01 Ph D (supervising)				
Research Projects/ MoU undertaken				
<ol style="list-style-type: none"> 1. Major research project, "Studying drug CD complexes using ADXRD beamline (BL-12), Indus 2" (CRS-310), by UGC-DAE CSR, Indore, (Principal Investigator), Rs. 13.70 Lac 2. Major research project entitled "Synthesis of polymeric cyclodextrin nanoparticles: Effect of 				

radiation" granted to me by UGC-DAE CSR, Kolkata, (Co-Principal Investigator), Rs 13.70 Lac, 2019-22 (Completed).

3. UGC-DAE CSR, Mumbai in collaboration with Bhabha Atomic Research Centre (BARC), Major research Collaborative Research Scheme Project, Mumbai, "Small angle Neutron scattering study of the interaction between drug and cyclodextrins in drug-cyclodextrin complexes", (Co-Principal Investigator) Rs 12.34 Lac, Jan 2017- March 2021 (Completed).
4. UGC SWAYAM MOOC, Co-Course Coordinator; "Academic writing" (15 week, 40 e- modules; 4 credit course), UGC 2018-20; Course developed and available on SWAYAM; Rs 13.5 Lac, Completed.
5. CEC SWAYAM MOOC, Co-Course Coordinator; "Industrial Pharmacy I" (12 week, 40 e- modules; 4 credit course); CEC, 2018-20; Course developed and available on SWAYAM; launched on JULY 2019; Rs 13.5 Lac, Completed.
6. Consultancy Project on Pharmacovigilance programme, Jai Pharma Ltd. Mumbai, a unit of Mylan Pharm. Pvt. Ltd., Logistic support, Dr Ajay Semalty and Dr Mona Semalty, 2016 September Onward.
7. UGC Govt. of India, Major Research Project, Preparation and evaluation of effective herbal formulations for alopecia (baldness) and identification of chief constituent(s), July 1st 2015- June 30, 2018. (Rs. 10.95 Lac), (Principal Investigator).
8. DST-SERC Govt. of India, Project entitled Phytosome in improving hepatoprotective activity of phytoconstituents, (Co-Principal Investigator) Feb. 2008-March 2011 (Completed); (Rs. 20.15 Lac)
9. UGC Govt. of India, Project entitled Development of value added herbal drug delivery systems of some polyphenolic phytoconstituents, (Co-Principal Investigator) March 2010- March 2012. (Completed); (Rs. 1.75 Lac)
10. AICTE Govt. of India, Project entitled Phytosphospholipid complexes in improvement of bioavailability of some herbal drugs, (Co-Principal Investigator) July 2010- July 2012. (Completed); (Rs. 10.00 Lac)
11. Dr Mona Semalty (PI), AICTE Govt. of India, Project entitled "Development & Characterization of Phytopharmaceuticals for Hair Growth Promotion", (Principal Investigator) March 2010- Aug. 2011. (Rs. 4.3Lac).

Administrative Experience

1. Co-Coordinator- University SWAYAM Cell
2. Warden of Girls' hostel (Bhagirathi Girls' Hostel Chauras Campus) of H.N.B.G. (Central) University Srinagar Garhwal from Aug. 2006 to Oct 2011.
3. Member Anti Ragging & Disciplinary Committee
4. Member Prevention of Sexual Harassment and Women Empowerment

Scientific Visits Abroad/ International Collaboration

1. Scientific Expert- Ministry of Institution and University Research (MIUR), Italy

Conference/Symposium/Workshop Attended during last five years

International

1. Lokesh Adhikari, Abhijit Saha, **Mona Semalty**, Ajay Semalty. Cyclodextrin Based Biocompatible Nanosystems for Improving Drug Delivery. International Conference on Recent Advances in Material Science (ICRAMS), 15-17 May 2021, Department of Physics, HNB Garhwal University Srinagar Garhwal.
2. Nitin Kumar, Lokesh Adhikari, VK Aswal, Ajay Semalty, **Mona Semalty**, Preparation and Characterization of Naringenin Loaded Nanoparticles, International Conference On Material Science and Applications (ICMSAA), 25-27 November 2019, Department of Physics Chauras Campus, HNBSG Srinagar Garhwal.
3. Sukirti Dobriyal, Lokesh Adhikari, VK Aswal, **Mona Semalty**, Ajay Semalty, Development and Characterization of Acyclovir Nanoparticles for Improved Drug Delivery, International Conference on Material Science and Applications (ICMSAA), 25-27 November 2019, Department of Physics Chauras Campus, HNBSG Srinagar Garhwal.
4. development of safe and effective gastroretentive floating microparticles of metformin hydrochloride, International Conference on Systems in Medicine and Biology (ICSMB 2016), Indian Institute of Technology Kharagpur, India, 4-7 January 2016.
5. Mona Semalty, Madhuri Maher, Ajay Semalty, Cyclodextrin inclusion complexes in improving solubility, dissolution and permeability of acyclovir and effect of hydrophilic excipients, International Conference on Systems in Medicine and Biology (ICSMB 2016), Indian Institute of Technology

Kharagpur, India, 4-7 January 2016.

6. **Mona Semalty**, Mixed hydrotropy in improving aqueous solubility and dissolution of poorly water soluble drugs, International Conference on Pharmaceutical Sciences, 14-15 Feb. 2014, SGRRITS Patelnagar Dehradun.

National (paper presentation)

7. Adhikari L, Pandey M, Kotiyal R., Semalty A, Semalty M. Preparation and evaluation of hair growth formulations of Indian ginseng (*Withania somnifera*) for alopecia 1st Annual conference of society for Himalayan Action Research and Development (SHARAD) on Recent Advances in Chemical & Nano Sciences. Department of Chemistry, Pauri Campus, HNB Garhwal University, Srinagar Garhwal. Dated 29-30 October, 2018. (Oral Presentation)
8. Adhikari L, Semalty M, Naruka PS, Aswal VK, Semalty A. Binary complexes of glimepiride with cyclodextrin for improved solubility and drug delivery. 1st Annual conference of society for Himalayan Action Research and Development (SHARAD) on Recent Advances in Chemical & Nano Sciences. Department of Chemistry, Pauri Campus, HNB Garhwal University, Srinagar Garhwal. Dated 29-30 October, 2018.
9. Adhikari L, Semalty M, Naruka PS, Aswal VK, Semalty A. Binary complexes of glimepiride with cyclodextrin for improved solubility and drug delivery. 1st Annual conference of society for Himalayan Action Research and Development (SHARAD) on Recent Advances in Chemical & Nano Sciences. Department of Chemistry, Pauri Campus, HNB Garhwal University, Srinagar Garhwal. Dated 29-30 October, 2018. (Oral Presentation)
10. Adhikari L, Semalty M, Naruka PS, Aswal VK, Semalty A. Effect of different cyclodextrin in Amphotericin B-cyclodextrin binary complexes: solubility, spectral and small angle neutron scattering study. 1st Annual conference of society for Himalayan Action Research and Development (SHARAD) on Recent Advances in Chemical & Nano Sciences. Department of Chemistry, Pauri Campus, HNB Garhwal University, Srinagar Garhwal. Dated 29-30 October, 2018.
11. Adhikari L, Pandey M, Kotiyal R., Semalty A, Semalty M. Preparation and evaluation of hair growth formulations of Indian ginseng (*Withania somnifera*) for alopecia 1st Annual conference of society for Himalayan Action Research and Development (SHARAD) on Recent Advances in Chemical & Nano Sciences. Department of Chemistry, Pauri Campus, HNB Garhwal University, Srinagar Garhwal. Dated 29-30 October, 2018. (Oral Presentation)
12. Mona Semalty, Mukesh Pandey, Ajay Semalty, Preparation and evaluation of hair growth formulation of *Withania somnifera* fruits for alopecia, National conference on Recent frontiers in Chemistry (NRF 2018), Department of Chemistry, HNB Garhwal University, 27-28 April 2018.
13. Mukesh Pandey, Mona Semalty, Ajay Semalty, Effect of geographical location on total phenol and flavonoid content and antioxidant activity, National conference on Recent frontiers in Chemistry (NRF 2018), Department of chemistry, HNB Garhwal University, 27-28 April 2018.
14. Mona Semalty, Ajay Semalty, Current trends and challenges in pharmaceutical sciences, National seminar, IPGA, BN College of Pharmacy, Udaipur, Rajasthan, 24-25 Sept. 2017.
15. Mona Semalty, Ajay Semalty, Study of Naringenin-phosphatidylcholine and naringenin-beta cyclodextrin interaction in the complexes, National Conference on Study of Matter Using Intense Radiation Sources and Under Extreme Conditions, UGC-DAE Consortium for Scientific Research (UGC-DAE CSR) University Campus, Khandwa Road, Indore 03-06 November 2016.
16. Ajay Semalty, Mona Semalty, Chitosan Microspheres of Diltiazem Hydrochloride: Effect of Drug to Polymer Ratio and Concentration of Crosslinking Agent, National Conference on Recent Advances in Biosciences and Drug Discovery, Department of Pharmaceutical Sciences, Gurukul Kangri Vishwavidyalaya, Haridwar, (3-4 March, 2014).

Invited Lectures

17. Plagiarism, Faculty Induction Programme from 17 May to 15 June, 2022 UGC-Human Resource Development Centre, Kumaun University, Nainital, 26/05/22
18. Learning outcome based credit framework, Online Short-Term Training Program on 'Curriculum Development with Special Reference to NEP-2020, FDC, HNBGU, April 07-13, 2022, 08/04/22
19. Research Proposal Writing and MOOC: Concept, Gurudakshata Programme, 10th FIP (03/03/22 to 30/03/22) in UGC HRDC Ranchi University Ranchi on 29th March 2022. (Two Lectures)

20. Plagiarism: Concept, detection and avoiding, Faculty Induction Programme (21 February-25 March 2022), UGC-Human Resource Development Centre, Kumaun University, Nainital, 10/03/22.
21. 'Managing Vital Academic Resource: The Team' Online Short Term Training Program organized by FDC, HNBSGU during February 22-28, 2022. February 23, 2022.
22. Plagiarism detection tools, Faculty Induction Programme-VII (held between 11-11-2021 to 11-12-2021) at the UGC-Human Resource Development Centre, Kumaun University, Nainital, 22/11/21.
23. Literature Management, 7 Day FDP on Research Methodology, Organized by S.S.S. Shasun Jain College for Women University of Madras, 16 November 2021.
24. MOOC proposal development, Short Term Course on MOOCs, E-Content Development & OERs (November 10 to November 16, 2021) in the UGC Human Resource Development Centre, the University of Mumbai, November 11, 2021.
25. Software tools for research, Summer School-2021 [Theme: Research Methodology & Writing (For all subjects)], 13 August-27 August 2021, UGC-Human Resource Development Centre, Kumaun University, Nainital, August, 21, 2021.
26. Plagiarism check, detection and avoiding, Summer School-2021 [Theme: Research Methodology & Writing (For all subjects)], 13 August-27 August 2021, UGC-Human Resource Development Centre, Kumaun University, Nainital, August, 23, 2021
27. "E-Content creation: MOOCs & Online Teaching Learning" AICTE Sponsored STTP Organized by Rajarshi Shahu College of Pharmacy, Buldana, Maharashtra, August 10, 2021.
28. Writing of Effective Research Grant Proposal, Refresher Course, FDC-HNBSGU, March 22, 2021.
29. Systematic Review Writing, AICTE sponsored organized by Sanjivani College of Pharmaceutical Education and Research, Kopergaon Mumbai, March 12 2021.
30. Meta- Analysis, STTP AICTE sponsored organized by Sanjivani College of Pharmaceutical Education and Research, Kopergaon Mumbai, March 12 2021.
31. Journal Targeting for Biomedical Research Publications, FDP: AICTE Sponsored FDP (4th Jan 2021- 16th Jan 2021) on Exploration of Nascent Pedagogical Tools for Updating Teachers in Pharmacy on Education", Lloyd Institute of Management & Technology (Pharm), Greater NOIDA, January 6, 2021
32. Journal Metrics for Identifying Quality Journals, FDP: AICTE Sponsored FDP (4th Jan 2021- 16th Jan 2021) on Exploration of Nascent Pedagogical Tools for Updating Teachers in Pharmacy on Education", Lloyd Institute of Management & Technology (Pharm), Greater NOIDA, January 6, 2021
33. Author Metrics for Academic Benchmarking, FDP: AICTE Sponsored FDP (4th Jan 2021- 16th Jan 2021) on Exploration of Nascent Pedagogical Tools for Updating Teachers in Pharmacy on Education", Lloyd Institute of Management & Technology (Pharm), Greater NOIDA, January 6, 2021
34. Importance of Conducting Research Projects in Academic Career and Preplanning. FDP: AICTE Sponsored FDP (4th Jan 2021- 16th Jan 2021) on Exploration of Nascent Pedagogical Tools for Updating Teachers in Pharmacy on Education", Lloyd Institute of Management & Technology (Pharm), Greater NOIDA, January 5, 2021
35. Opportunities for Getting Research Grants, FDP: AICTE Sponsored FDP (4th Jan 2021- 16th Jan 2021) on Exploration of Nascent Pedagogical Tools for Updating Teachers in Pharmacy on Education", Lloyd Institute of Management & Technology (Pharm), Greater NOIDA, January 5, 2021
36. Effective Research Proposal Writing, FDP: AICTE Sponsored FDP (4th Jan 2021- 16th Jan 2021) on Exploration of Nascent Pedagogical Tools for Updating Teachers in Pharmacy on Education", Lloyd Institute of Management & Technology (Pharm), Greater NOIDA, January 5, 2021
37. Planning & Development of Massive Open Online Courses [MOOCs], NITI AAYOG, Govt. of India Sponsored 7-day National Workshop, A.K. Dasgupta Centre for Planning and Development Vishva Bharati University, Kolkata, December 14 2020.
38. Research Proposal Writing, Faculty Induction Programme-I (01/12/2020 to 29/12/2020), UGC-Human Resource Development Centre, Kumaun University, Nainital on 11/12/2020, (Two Lectures).
39. Developing adaptability in research in higher education, Faculty Induction Programme-I (01/12/2020 to 29/12/2020), UGC-Human Resource Development Centre, Kumaun University, Nainital on 05/12/2020, (Two Lectures).
40. Proposal Submission in SWAYM MOOCs, Workshop for university teachers on MOOCs, e-content development, and OERs (23/11/20 to 28/11/20), UGC HRDC Bangalore University Bengaluru, November 24, 2020.

41. Preplanning of SWAYAM MOOCs, Workshop for university teachers on MOOCs, e-content development, and OERs (23/11/20- 28/11/20), UGC HRDC Bangalore University Bengaluru, November 24, 2020.
42. "Journal Metrics" and "Author Metrics" Summer School on Research and Publication Ethics by UGC-HRDC Kumaun University Nainital (26/08/20 to 08/09/2020); 05/09/2020. (02 Lectures)
43. "Effective Literature Review" and "Using Literature Databases" Summer School on Research and Publication Ethics by UGC-HRDC Kumaun University Nainital (26/08/20 to 08/09/2020); 07/09/2020.
44. "Research Proposal Writing" in National Workshop "Publication Ethics: Academic Writing for Research Publication" organized by Department of Education, Assam University Silchar, 25/08/2020.
45. "Research Paper writing" & "Research Proposal Writing", Short Term Course in Research Methodology for university/college teachers. UGC-HRDC, Kumaun University, Nainital, Sept. 16, 2019.
46. "MOOC Development" in the One week workshop on "MOOC and Open Educational Resources" [July 22 to 27, 2019] organized by Human Resource Development Centre (Erstwhile ASC), GJ University S&T, Hisar on 26th July, 2019
47. "Academic Writing" in Induction/Orientation Program for the teachers of Higher Education conducted by Faculty Development Centre (FDC), HNB Garhwal University, Srinagar Garhwal (15 May-30 June, 2019), 6th June 2019.
48. "Basic Rules of Academic Writing" in one week workshop held by Department of Education, HNB Garhwal University, Srinagar Garhwal, 22nd May, 2019.
49. "Finding OERs for Teaching Learning and Issue of Plagiarism" 15th October, 2018, Workshop on "Using and Developing Open Educational Resources and MOOCs" for the teachers of Higher Education during 12-18 October, 2018.
50. "e-PG Pathshala, MOOCs Development" 16th October, 2018, Workshop on "Using and Developing Open Educational Resources and MOOCs" for the teachers of Higher Education during 12-18 October, 2018.
51. "Coping with stress" Govt. Girls Inter College, Srinagar Garhwal, 13th Dec. 2018.
52. "Career Counselling" Govt. Girls Inter College, Srinagar Garhwal, 12th Dec. 2018.

Workshop attended

53. Fermentation: interplay of microbes, immunity and nutrition, Organized by Department of Rural Development & Agricultural Production (RDAP) North-Eastern Hill University (NEHU), Tura Campus, Meghalaya in Association with Biotechnology Industry Research Assistance Council (BIRAC), A Government of India Enterprise, February 03-04, 2023.
54. Microsoft Educator Center, Microsoft Innovative Educator, 11/12/21.
55. FDP on Research Design & Methodology, IFTM University Moradabad, 22-26 Nov. 2021.
56. Completed Refresher Course "Pedagogical Innovations and Research Methodology", RC (MD), SWAYAM ARPIT course, June 2020.
57. International Webinar on Post Covid 19 scenario: Prospects and Challenges, FDC, School of Education, HNB Garhwal University Srinagar Garhwal, 06/06/2020.
58. One Week Faculty Development Programme: Teacher's training on Disaster Management, Organized by National Institute of Disaster Management, Ministry of Home Affairs Govt of India, 21-25 September 2020.
59. Online National Awareness Workshop on UGC-DAE CSR Facilities, 09-11-2020 to 12-11-2020
60. Introduction to computational drug design: Theory-demo-hands on, Organized by Schrodinger and PCI, 21/09/20 to 23/10/20.
61. National Workshop on "Role of Open Education Resources in Higher Education" conducted by FDC, HNB Garhwal University, Srinagar Garhwal, from 15/12/17 to 17/12/17.
62. Short Term course on "Open Education Resources in Higher Education" conducted by FDC, HNB Garhwal University Srinagar Garhwal, from 04/09/17 to 09/09/17.

Conference/Symposium/Workshop Organized during last five years

- Academic Writing Workshop: Ethiopia Chapter (SWAYAM Outreach Program), 20/08/2020. (Organized)
- International webinar: Academic Writing: from Basic to advanced (Leaving Impact: The Uganda Chapter), 06/07/2020.

- “Demo on Virtual Classrooms for faculty members”, organized by SWAYAM Cell in association with Microsoft Team, 29 June 2020. (Organized)
- International webinar: Academic Writing: from Basic to advanced (Leaving Impact: The Brasil Chapter), 29/06/2020. (Organized)
- Member Organizing Committee APTICON 2019 (International Annal Conference of APTI), 11-13 October, 2019. Dehradun.
- Academic Writing: From Basic to advanced (The Philippines Chapter), 21/06/2020.
- Special Assistance, Workshop on “Using and Developing Open Educational Resources and MOOCs” for the teachers of Higher Education during 12-18 October, 2018 conducted by Faculty Development Centre (FDC), HNB Garhwal University, Srinagar Garhwal.

Publications during last five years

Journals

International

1. Mukesh Pandey, Priyanka Rani, Lokesh Adhikari, Mukul Gupta, Ajay Semalty, **Mona Semalty**, Preparation and characterization of cyclodextrin complexes of doxycycline hyclate for improved photostability in aqueous solution, **Journal of Inclusion Phenomena and Macrocyclic Chemistry**, 2022, 102, 271-78 ISSN: 1388-3127; <https://doi.org/10.1007/s10847-021-01116-z> **Impact Factor: (IF 1.925)**. <https://rdcu.be/cBw9Z>; Springer
2. Lokesh Adhikari, Rupali Kotiyal, Mukesh Pandey, Meenakshi Bharkatiya, Ajay Semalty, **Mona Semalty**, Effect of geographical location and type of extract on Total phenol/flavon contents and antioxidant activity of different fruits extracts of *Withania somnifera*, **Curr Drug Discov Technol.** 2020,17 (1); 92-99. ISSN: 1570-1638; PMID: 24188445. CiteScore 2.9; DOI: 10.2174/1570163815666180807100456; Bentham Science.
3. Mukesh Pandey, Lokesh Adhikari, Rupali Kotiyal, Ajay Semalty, **Mona Semalty**, Preparation and evaluation of hair growth formulations of Indian ginseng (*Withania somnifera*) for alopecia, **Asian Journal of Biological Sciences**, 2019, 12, 524-532. ISSN: 1996-3351; <https://doi.org/10.3923/ajbs.2019.524.532>; Science International.
4. **Mona Semalty**, Lokesh Adhikari, Divya Semwal, Anita Chauhan, Akash Mishra, Rupali Kotiyal and Ajay Semalty, A comprehensive review on phytochemistry and pharmacological effects of Stinging Nettle (*Urtica dioica*), **Current Traditional Medicine**, 2017, 3(3), 156-67. ISSN 2215-0846. DOI: 10.2174/2215083803666170502120028 ; SCOPUS Citescore- **0.4**; Bentham Science
5. **Mona Semalty**, Lokesh Adhikari, Anita Chauhan, Akash Mishra, Divya Semwal, Rupali Kotiyal, Ajay Semalty, Obesity and herbal drug research: Exploring the safer alternative and lead molecule, **Current Traditional Medicine**, 2017, 3(2), 74-92. ISSN 2215-0846. DOI: 10.2174/2215083803666170309124540; SCOPUS Citescore- **0.4**; Bentham Science
6. Madhuri Maher, Mukesh Pandey, Lokesh Adhikari, Ajay Semalty, **Mona Semalty**, Effect of hydrophilic excipients on cyclodextrin complexes of acyclovir in improving solubility, dissolution and permeability, **Letters in Drug Design & Discovery**, 2016,13(8), 771-780. ISSN: 1570-1808. DOI: 10.2174/1570180813666160517161058, **Impact Factor: 1.17**; Bentham Science
7. Mukesh Pandey, Madhuri Maher, **Mona Semalty**, Ajay Semalty. Natural macromolecules in the development of safe and effective gastroretentive floating microparticles of metformin hydrochloride. **The Natural Products Journal**, 2016, 6 (1), 62-72. <http://dx.doi.org/10.2174/2210315506999151209101058> ISSN: 2210-3155.
8. A. Semalty, YS Tanwar, **M Semalty**, Preparation and characterization of cyclodextrin inclusion complex of naringenin and critical comparison with phospholipid complexation for improving solubility and dissolution, **Journal of Thermal Analysis and Calorimetry** 2014, 115, 3:2471-2478. ISSN: 1388-6150; DOI 10.1007/s10973-013-3463-y. **Impact Factor: 4.755**. <https://rdcu.be/cBHFp>; Springer
9. Semalty M, Panchpuri M, Singh D, Semalty A, Cyclodextrin inclusion complex of racecadotril: effect of drug-β-cyclodextrin ratio and the method of complexation, **Curr Drug Discov Technol.** 2014,11(2):154-61. ISSN: 1570-1638; PMID: 24188445. CiteScore **2.9**; DOI: 10.2174/15701638113106660043; Bentham Science
10. Singh D, Rawat M. S. M., Semalty A, **Semalty M**, Chrysophanol–phospholipid complex, **Journal of Thermal Analysis and Calorimetry** 2013, 111, (3), 2069-2077. ISSN: 1388-6150; **Impact Factor: 4.755**. <https://rdcu.be/cBHFb>; Springer
11. Ajay Semalty, **Mona Semalty**, Devendra Singh, M. S. M. Rawat, Phyto-phospholipid complex of catechin in value added herbal drug delivery, **Journal of Inclusion Phenomena and Macrocyclic Chemistry**, 2012, 73 (1-4), 377-386. DOI 10.1007/s10847-011-0074-8; ISSN: 1388-3127; **Impact Factor: 1.925**. <https://rdcu.be/cBHFH>; Springer
12. Singh D, Rawat M. S. M., Semalty A, **Semalty M**, Quercetin-phospholipid complex: An amorphous pharmaceutical system in herbal drug delivery, **Current Drug Discovery Technologies**, 2012 Mar

1;9(1):17-24; ISSN: 1570-1638: DOI: [10.2174/157016312799304507](https://doi.org/10.2174/157016312799304507); **Impact factor- - 2.367; Bentham Science**

13. Devendra Singh, M. S. M. Rawat, Ajay Semalty, **Mona Semalty**, Rutin-Phospholipid Complex: An Innovative Technique in Novel Drug Delivery System- NDDS, **Current Drug Delivery**, 2012, 9(3), 305-14. ISSN: 1567-2018: PMID:22283645. **Impact Factor: 3.758; Bentham Science**
14. Ajay Semalty, **Mona Semalty**, Vandana S. Panda, Kirtika H. Asrani, Hardik D. Ashar, Herbal Drugs in Chronic Fatigue Syndrome: An Overview, **Schweiz Z Ganzheitsmed (Swiss Journal of Integrative Medicine)**, 2012, 24, 155-68. ISSN: 1015-0684: DOI:10.1159/000339011; IF 0.4
15. Devendra Singh, M. S. M. Rawat, Ajay Semalty, **Mona Semalty**, Emodin-phospholipid complex: A potential of herbal drug in the novel drug delivery system, **Journal of Thermal Analysis and Calorimetry** 2012, 108,1, 289-298. ISSN: 1388-6150: DOI 10.1007/s10973-011-1759-3. **Impact Factor: 4.755; <https://rdcu.be/cBHfQ>; Springer**
16. Devendra Singh, M. S. M. Rawat, Ajay Semalty, **Mona Semalty**, Gallic Acid-Phospholipid Complex: Drug Incorporation and Physicochemical Characterization, **Letters in Drug Design & Discovery**, 2011, 8(3), 284-91. ISSN: 1570-1808. DOI:[10.2174/157018011794578240](https://doi.org/10.2174/157018011794578240); **Impact Factor: 1.17; Bentham science**
17. **A. Semalty**, M. Semalty, Geeta P. Joshi and M.S.M. Rawat, Techniques for the discovery and evaluation of drugs against alopecia, **Expert Opinion on Drug Discovery**, 2011, 6(3), 309-21. doi:10.1517/17460441.2011.553831. 17460441; **Impact Factor: 7.050; Taylor& Francis**
18. **Mona Semalty**, Ajay Semalty, Geeta P. Joshi and M.S.M. Rawat, Hair Growth and Rejuvenation: An Overview, **Journal of Dermatological Treatment**, 2011, 22(3): 123-32. doi: 10.3109/09546630903578574. ISSN 0954-6634 **Impact Factor: 3.23; Taylor& Francis**
19. Ajay Semalty, **Mona Semalty**, M. S. M. Rawat, Franceschi Federico, Supramolecular phospholipids-polyphenolics interactions: the PHYTOSOME® strategy to improve the bioavailability of phytochemicals, **Fitoterapia**, 2010, 81, 306-14. DOI: 10.1016/j.fitote.2009.11.001 **Impact Factor: 3.204. ISSN 0367-326X; Elsevier**
20. Ajay Semalty, **Mona Semalty**, Devendra Singh, M. S. M. Rawat, Preparation and characterization of phospholipid complexes of naringenin for effective drug delivery, **Journal of Inclusion Phenomena and Macrocyclic Chemistry**, 2010, 67, 253-60. DOI 10.1007/s10847-009-9705-8 **Impact Factor: 1.925. ISSN: 0923-0750, <https://rdcu.be/cBHf6>; Springer**

National

21. Adhikari L, Kumar N, Saha A, Semalty A, Semalty M. Naringenin loaded cyclodextrin nanoparticles for improved drug delivery, **Indian Drugs**, 2022, 59(8): 82-85. ISSN: 0019-462X.
22. Panwar VS, Adhikari L, Semalty Mona, Semalty A., Drug-Cyclodextrin Complexes: Current Status and Recent Advancements, **Indian Drugs**, 2021, 59 Accepted. ISSN: 0019-462X.
23. Devashish Pandey, Vikas Singh Panwar, Himanshu Mishra, Lokesh Adhikari, Mukesh Pandey, Mona Semalty, Cyclodextrin Based Nanoparticles for Improved Solubility and Drug Delivery. *Journal of Mountain Research*. Vol. 16(1), (2021), 187-199 ; p ISSN: 0974-3030; e ISSN: 2582-5011 DOI: <https://doi.org/10.51220/jmr.v16i1.19>
24. Adhikari L, Semalty M, Semalty A. A critical study of SWAYAM MOOCs: Increasing reach and expansion. **University News**, 2021, 59 (19): 9-18. ISSN: 0566-2257.
25. Mishra H, Adhikari L, Semalty M, Semalty A. Cellulose acetate floating microspheres of metformin hydrochloride: formulation and characterization, **Indian Drugs**, 2020, 57,12, 65-69 . ISSN: 0019-462X.
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Massive Open Online Courses (MOOCs) with record enrolments (more than 84000 learners across 150 countries)

46. Course Coordinator; **"Academic writing" SWAYAM MOOC** (15 week, 40 e- modules; 4 credit course); https://swayam.gov.in/nd2_ugc19_ge03/preview (July Oct. 2019 cycle; 12532 learners) & https://swayam.gov.in/nd2_cec20_ma04/preview (January- July 2020 Semester; 7546 learners); https://swayam.gov.in/nd2_cec20_ge29/preview, July Oct. 2020 cycle; 8645 learners); https://onlinecourses.swayam2.ac.in/cec21_ge18/preview January- July 2021 Semester; 6647 learners); https://onlinecourses.swayam2.ac.in/cec21_ge32/preview (July-Oct. 2021; 11047); https://onlinecourses.swayam2.ac.in/cec22_ge01/preview (Jan-July 2022; 8078); https://onlinecourses.swayam2.ac.in/cec22_ge44/preview (July-Oct. 2022; 10020); **Total 64515 learners**
47. Course Coordinator; **"Industrial Pharmacy I"** (12 week, 40 e- modules; 4 credit course); approved by CEC on April 2018; Course developed; https://swayam.gov.in/nd2_cec19_ge01/preview; (July Oct. 2019 cycle; 2299 learners); https://swayam.gov.in/nd2_cec20_lb05/preview, (July Oct. 2020 cycle; 5070 learners); https://onlinecourses.swayam2.ac.in/cec21_lb04/preview (July-Oct. 2021; 4210); https://onlinecourses.swayam2.ac.in/cec22_lb02/preview (Jan- July 2022; 3772); https://onlinecourses.swayam2.ac.in/cec22_lb04/preview (July-Oct. 2022; 3992); **Total 19343 learners.**
48. 02 Courses for SWAYAMPBABA channel-15 (27 hrs video lectures prepared in 2020-21):

- Cosmetics and (May-September 2020); <http://tiny.cc/SEMALTYCOSMETICS>.
- Pharmaceutics I (October 2020 to Jan. 2021); <http://tiny.cc/SEMALTYCEUTICS1>

Total Number of Research Publications:

Publications

Papers	-	70 (31 International, 39 National)
Scientific Abstracts	-	82 (15 International, 67 National) (2 international; 21 National presented)
Chapter in Book	-	47 (01 International, 46 National)
Books	-	06
Patents (Indian)	-	02 (2 granted, 1 published/ in final stage)
E content development	-	more than 100 hrs
MOOCs (SWAYAM online courses)-		02 (by UGC and CEC) >50 hrs of video lectures
SwayamPrabha e-modules	-	27 hrs (54 Lectures)
Total citations	-	>2100
H index	-	25

<https://scholar.google.co.in/citations?user=3e1mBLcAAAAJ&hl=en>

I10 Index	-	32
Total Impact	-	> 100
MOOCs (SWAYAM online course)-	-	02 (Academic Writing; Industrial Pharmacy-I)
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