

CURRICULUM VITAE

CONTACT DETAILS

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ACADEMIC REFEREES

Prof. (Dr) Anuradha Mishra

Amity Institute of Pharmacy, AMITY University, Lucknow, UP, India.

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Prof. (Dr) Iffat Zareen Ahmad

Professor, Dept. of Bioengineering, Integral University, Lucknow, U.P. India.

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Prof. (Dr) Syed Misbahul Hasan

Professor & Dean

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ASAD AHMAD

Ph. D (Pharmacology)



TEACHING & RESEARCH

EXPERIENCE: (7 Years)

Lecturer at School of Pharmaceutical Sciences, Faculty of Pharmacy, Integral University, Lucknow, 226026, U.P., India.

Senior Research Fellow (SRF) in Ministry of AYUSH funded research project at Dep. of Bioengineering, Integral University, Lucknow, 226026, U.P., India.

RESEARCH INTERESTS

Hepatoprotective, anticancer, anti-peptic ulcer, & anti-diabetic activities of natural products.

Patent: **01**

Publications: **15**

Conferences/Workshops/Seminars: **33**

ABOUT ME

Currently I am working as an Assistant Professor in Faculty of Pharmacy, Integral University, Lucknow, Uttar Pradesh, India. I have 4 years of experience as a Lecturer in School of Pharmaceutical Sciences at Integral University, Lucknow, and 3 years of experience as a senior research fellow in the Ministry of AYUSH-funded research project at Integral University, Lucknow. The hepatoprotective, anticancer, antiemetic, and antiulcer properties of several medicinal plants, seeds, and sprouts as well as their formulations are the main areas of interest in my research. I'm now working on characterizing and assessing a nanoformulation loaded with *Lepidium sativum* L. extract that is effective against

hepatocellular cancer both in vitro and in vivo. I have **one patent** from my academic career and have produced **five research papers, six reviews, and four book chapters** in national and international journals with high impact factors. During this period, I attended 33 national and international conferences, workshops, and seminars.

TEACHING EXPERIENCE (4 years)

- Currently working as an Assistant Professor at Faculty of Pharmacy, Integral University, Lucknow, 226026, U.P., India (1st October 2023 - till now).
- Worked as a Lecturer at School of Pharmaceutical Sciences, Integral University, Lucknow, 226026, U.P., India (2nd August 2019 – 30th September 2023).
- Worked as an Assistant professor at KRS College of Pharmacy, Gonda (1st September 2015 - 31st December 2015).

RESEARCH EXPERIENCE (4 Years)

- Completed my **Ph.D.** from Integral University on “**Characterization and evaluation of *Lepidium sativum* L. seed extract nanoformulation against hepatocarcinoma**” under the supervision of Prof. (Dr) Anuradha Mishra, Professor & Director, Amity Institute of Pharmacy, AMITY University, Lucknow, UP, India.
- Worked as a **Senior Research Fellow (SRF)** in a **Ministry of AYUSH** funded research project titled “***In vitro* and *in vivo* study of hepatoprotective activity of *Nigella sativa* extracts in various germination stages**” under the supervision of Prof (Dr.) Iffat Zareen Ahmad at Integral University, Lucknow, 226026, U.P., India (26th April 2016 - 31st March 2019).
- Worked as **Research assistant** at **Era Medical University**, Lucknow (14th January 2016 - 26th April 2016).
- Worked on project titled “**Effect of *Emblica officinalis* fruit extract on cisplatin induced delay in gastric emptying rate in rats**” in **M. Pharm.** under the supervision of Dr. Mohd. Khushtar, at Faculty of Pharmacy, Integral University, Lucknow, 226026, U.P., India.

PATENT: (01)

Indian Patents: (01)

- A system and process for synthesized oil-based liposomal gel for Vitiligo and its composition thereof. (Patent no.: 440711; 26/07/23)

PUBLICATIONS: (15)

Research Papers: (5)

1. **Ahmad, A.**, Nabi, R., Mishra, A., & Ahmad, I. Z. (2022). Preclinical safety assessment of *Lepidium sativum* L. seed extract and its nanoparticles via acute & subacute oral administration. Recent patents on nanotechnology, 17:1-10. IF: 2.3.
2. **Ahmad, A.**, Tabassum, H., Nabi, R., Mishra, A., & Ahmad, I. Z. (2022). Solid lipid nanoparticles of *Lepidium sativum* L. seed extract: formulation, optimization and in vitro cytotoxicity studies. Drug research, 72:1-10. IF: 2.2
3. **Ahmad, A.**, Khushtar, M., Kumar, R., Badruddin, M., Mahmood, T., Mujahid, M., Aziz-ur-rahman, M., & Riyaz, A. (2017). Augmented reversal of cisplatin-induced delayed gastric emptying by amla (*Emblica officinalis*) fruit extract in sprague-dawley rats. Journal of dietary supplements. 15(5): 684-691. IF: 2.27.
4. Ahmad, I. Z., Fatima, U., Tabassum, H., Mabood, A., **Ahmad, A.**, Srivastava, G., & Das, M. (2017). Evaluation of the nutrient profile of *Trachyspermum ammi* L. seed under the influence of nanoparticles during germination. Cellular and molecular biology, 63(6):7-11. IF: 1.77.
5. Riyaz, A., Nazir, S., Khushtar, M., Mishra, A., Jahan, Y., & **Ahmad, A.** (2016). Effect of *Nigella sativa* L. seed extract on cisplatin induced delay in gastric emptying in Sprague Dawley rats. Natural product research, 31(5), 588-592. IF: 2.86.

Book Chapters: (4)

6. Ahmad, I. Z., **Ahmad, A.**, Tabassum, H. & Kuddus, M. (2020). Chapter 8 - A cosmeceutical perspective of engineered nanoparticles. In "Handbook of Nanomaterials for Manufacturing Applications" Micro and Nano Technologies, Elsevier Publishers, 2020, 191-223. ISBN 978-0-12-821381-0.
7. Ahmad, I. Z., Mabood, A., **Ahmad, A.**, Tabassum, H. & Kuddus, M. (2019). Applications of nanoparticles in the treatment of waste water. In "Handbook of ecomaterials". L.M.T. Martinez et al. (eds.), Springer International Publishing AG 2019, 275-299. https://doi.org/10.1007/978-3-319-48281-1_37-1 Online ISBN 978-3-319-48281-1 Print ISBN: 978-3-319-68254-9.

8. Ahmad, I. Z., **Ahmad, A.**, Tabassum, H., & Kuddus, M. (2018). Applications of food enzymes in pharmaceutical industry- perspectives and limitations. In “Enzymes in Food Technology: Improvements and Innovations” Springer Nature Publisher, Singapore. Chapter 3, 2018, p 41-62. ISBN 978-981-13-1932-7. Online ISBN: 978-981-13-1933-4.
9. Ahmad, I. Z., **Ahmad, A.**, Mabood, A., & Tabassum, H. (2017). Effects of different types of metal stresses on the antioxidant defense systems of medicinal plants. In ‘reactive oxygen species and antioxidant systems: role and regulation under abiotic stress’ published by Springer Nature, 2017, 215-256. ISBN 978-981-10-5253-8 Online ISBN: 978-981-10-5254-5.

Review Articles: (6)

10. **Ahmad, A.**, Nabi, R., Mishra, A., Ahmad, I.Z. (2020). A panoramic review on *Lepidium sativum* L. bioactives as prospective therapeutics. Drug research (Stuttgart) 71(5):233-242. IF: 2.2.
11. Tabassum, H., **Ahmad, A.**, & Ahmad, I. Z. (2018). *Nigella sativa* L. and its bioactive constituents as hepatoprotectant: a review. Current pharmaceutical biotechnology, 19, 43-67. IF: 2.83.
12. Ahmad., I. Z., Kuddus, M., Tabassum, H., **Ahmad, A.**, & Mabood, A., (2017). Advancements in applications of surface modified nanomaterials for cancer theranostics. Current drug metabolism, 18(11):983-999. IF: 3.73.
13. Farooqui, A., Tabassum, H., **Ahmad, A.**, Mabood, A., Ahmad, A., & Ahmad, I. Z. (2016). Role of nanoparticles in growth and development of plants: a review. International journal of pharma and biosciences, 7(4), 22 - 37.
14. Bano, D., Tabassum, H., **Ahmad, A.**, Mabood, A., & Ahmad, I. Z. (2016). The medicinal significance of the bioactive compounds of *Trigonella foenum-graecum*: a review. International journal of research in ayurveda and pharmacy, 7(4), 84-91.
15. Usmani, A., Mishra, A., Mujahid, M., Aftab, M., & **Ahmad, A.** (2016). An amazing herb with extraordinary payback: *Camellia sinensis*. Research & reviews: A journal of pharmacology, 2016, 6(2), 1-12.

MEMBERSHIP

- Life time membership of **Association of Pharmaceutical Teachers of India (APTI)**.

SHORT TERM COURSES

1. Completed the online course on future learn titled “The Science of Medicines” from **MONASH University, Australia.** (6 Weeks).
2. Completed the online course on future learn titled “Supporting Adolescent Learners: Social and Emotional Wellbeing” from **GRIFFITH University, Australia.** (2 Weeks).
3. Completed the online course on future learn titled “Introduction to Anatomy: Learning the Anatomical Alphabet” from **CHARLES STURT University, Australia.** (3 Weeks).

EXTRA ACTIVITIES

- Attended workshop regarding **Public Financial Management System (PFMS)** as a representative of Integral University, Lucknow, UP, organized by **Central Government of India**, in New Delhi, India.
- Attended workshop regarding **Public Financial Management System (PFMS)** as a representative of Integral University, Lucknow organized by University Grants Commission (**UGC**) and **Canara Bank**, in New Delhi, India.

RESEARCH SKILLS

Animal:

- Well versed with animal handling (Rat, mice, rabbit, Guinea pig)
- Administration of drug via different routes (IP, IM, SC, Oral)
- Induction of peptic ulcer by swim stress method
- Induction of paw edema in rat by Carrageenan
- Models of Nociception (Hot-Plate, Tail-Flick)
- Motor performance (Rota rod test, Pole climbing)

Molecular and Biophysical techniques:

- Handling and application of various analytical techniques like TLC, UV-Spectroscopy, Dissolution Apparatus, Disintegration test apparatus, Melting point Apparatus, Viscometers, and pH meter.

Antibacterial techniques:

- Disc diffusion method
- Well diffusion method

ABSTRACTS

1. **Ahmad, A.**, Tabassum, H., Sabiha, & Ahmad, I. Z. (2017). “Alteration of non-enzymatic antioxidant activity of *Nigella sativa* L. seeds and its sprout”. Biotechnological Advancement in free radical biology and medicine, scheduled on 23.01.2017 – 25.01.2017.
2. Tabassum, H., **Ahmad, A.**, Ahmad, I. Z., & Sabiha. (2017). “Comparison of in vitro cytotoxicity of *Nigella sativa* L. seed and sprouts in HepG2 cells”. Updates in cancer prevention and research (ICUCPR-2017) and Satellite conference on translational pharmaceutical research: Trends and implications, scheduled on 14.02.2017- 16-02-2017 and 20-02-2017.
3. Ahmad, I. Z., **Ahmad, A.**, Tabassum, H., & Sabiha. (2017). “*Nigella Sativa* L. Sprouts with enhanced nutritional and medicinal properties: A fortified food supplement”. Agriculture research and education in relation to development of integrated agriculture: challenges and solutions, scheduled on 14.06.2017.
4. Ahmad, I. Z., **Ahmad, A.**, Tabassum, H., & Sabiha. (2016). “Alterations in the carbohydrates and cardiac glycosides in *Nigella sativa* L. seeds and its sprout”. Recent trends and experimental approaches in Science, Technology, and Nature, scheduled on 23.12.2016 – 24.12.2016.
5. **Ahmad, A.**, Riyaz, A., Khushtar, M., Kumar, R., Badruddin, M., Mahmood, T., Mujahid, M., & Aziz-ur-rahman, M. (2015). “Treatment and management of GERD”. Novel tools and treatment approaches in health care system, scheduled on 03.03.2015.

CONFERENCES/WORKSHOPS/SEMINARS

1. Professional Development Programme on “Strategies to overcome challenges in drug development” held at Faculty of Pharmacy, Integral University, Lucknow, UP. From 9-11-2021 to 23-11-2021.
2. Participated in “Cyber Security Awareness month: A global campaign” organized by Department of computer application, Integral University, Lucknow. October, 2021.
3. Participated in Faculty Development Program on “Communication skills: theory & practices” organized by Department of Languages, Integral University, Lucknow, on 14-25 June, 2021.

4. Participated in Induction program on “Multidisciplinary and translational drug development in healthcare” organized by Anjuman-i-islam’s kalsekar technical campus, School of pharmacy, New Panvel, from 5th to 13th April 2021.
5. Participated in seminar on “Women’s emancipation in India: Myth or reality” organized by Umapati mahadev college of pharmacy, Amroha, UP, on 8th March 2021.
6. Participated in Faculty Development Program on “Recent Pedagogy in Teaching and Research” organized by Faculty of commerce & management, Integral University, Lucknow, on 4-12 March, 2021.
7. Participated in Online Faculty Induction Program organized by Jagadamba Mahavidyalaya, Achalpur City, Amravati, from 15th to 19th 2020.
8. Participated in “Refresher course on National Education Policy (NEP) 2020” organized by HRDC, Integral University, Lucknow, on 24th February 2021 to 3rd March 2021.
9. Participated in webinar “Socio-psychological impact of COVID-19 in academics and its management” organized by Faculty of pharmacy, Integral University, Lucknow, on 28th May 2020.
10. Participated in Faculty Development Program on “R-programming Language” organized by HRDC, Integral University, Lucknow, from 11th to 15th May 2020.
11. Workshop on “Anti-plagiarism in research” Held at Integral University on August 3rd, 2019.
12. Regional workshop on “Research Based Pedagogical Tools” held in HRDC, Integral University, Lucknow from October 23rd to 25th 2018.
13. Abcam seminar on “Optimizing techniques for western blotting, immunohistochemistry and immunocytochemistry” held at CDRI, Lucknow on December 4th, 2018.
14. Hands on workshop on “ Detection of color fluorescence and chemiluminescence through Chemi-Documentation system” held at Integral University, Lucknow on April 27th 2018.
15. One day seminar on “Following the Research Workflow using Elsevier’s Tools” organised by HRDC, Integral university in collaboration with Elsevier, India on March 6th, 2018.
16. Workshop on “Public Financial Management System Training Program-EAT module” organised by Ministry of finance and Integral University, Lucknow on 21st December 2018.
17. A symposium on “Segregated Waste Disposal and Management” was organised by Human Resources Development Center and Faculty of Pharmacy, Integral university, Lucknow on November 7th, 2019.
18. “Antibiotic Awareness Week” was organised by Faculty of Pharmacy, Integral University, Lucknow on November 18th to 24th, 2019

19. National Conference on “Unani Medicine for Public Health” was held at Vigyan bhawan, New Delhi on 11th and 12th Feb, 2019.
20. National seminar on “Agriculture research and education in relation to development of integrated agriculture: Challenges and solutions” at Indian Institute of Sugarcane Research, Lucknow, on 14th June, 2017.
21. International conference on “Updates in cancer prevention and research(ICUCPR-2017)” and “Satellite conference on translational pharmaceutical research: Trends and implications” at Babasaheb Bheemrao Ambedkar University, Lucknow, on 14th – 16th and 20th February, 2017.
22. First Indo-Russian Meet and Second International Conference on “Biotechnological Advancements in free radical biology and medicine (ICBAFM)” at Integral University 23rd – 25th January, 2017.
23. International congress on “Post-Harvest technology of agricultural produce for sustainable food and nutrition security” at Integral University, Lucknow, on 10th – 12th November, 2016.
24. International seminar on “Recent Trends and Experimental Approaches in Science, Technology and Nature” at Indian Institute of Sugarcane and research, Lucknow, on 23rd and 24th December, 2016.
25. Seminar on “Optimization techniques for western blotting, Optimization techniques for Immunohistochemistry(IHC) & Immunochemistry (ICC)” at Central Drug Research Institute (CDRI), Lucknow, on 25th November, 2016.
26. Seminar on “Employment Generation-Strategies and Action Agenda” at Scientific Convention Center, Shahmina Road, Lucknow, on 19th November, 2016.
27. Consultative Meet on “Child Malnutrition and Outcomes in Concurrence to Millennium Development Goals (MDGs)-2015 and Approaching Sustainable Development Goals (SGD)-2030” at National Institute of Cooperation and Child Development Regional Center, Lucknow, on 23- 24th September, 2016.
28. Conference on “Ground Water Resources in Uttar Pradesh: Challenge and Management” at Government of India, Ministry of Water Resources, River Development and Ganga Rejuvenation, Central Ground Water Board, Northern Region, Lucknow, on 30th March, 2016.
29. CME on “Recent Advances in the Management of Atherosclerosis” at Era’s Lucknow Medical College and Hospital, Lucknow, on 6th February, 2016.
30. National Conference on “Novel Tools and Treatment Approaches in Health Care System” at Faculty of Pharmacy, Integral University, Lucknow, on 3rd March, 2015.
31. Seminar on “Role of Pharmacist in Health Care System” held at Faculty of Pharmacy, Integral University, Lucknow, on 25th September 2014.

32. National Seminar on “Technological Advances in Pharmaceutical Education and Research” at Ganna Sansthan, Dalibagh, Lucknow, on 26th April, 2010.
33. 46th “IHPA” National Convention, 2009 and silver Jubilee Celebration of IHPA UP State Branch held at Scientific Convention Center, Chhatrapati Saahuji Maharaj Medical University, Lucknow, on 24-25th October, 2009.

EDUCATIONAL QUALIFICATION

S. No	Degree	Affiliation	Field of Study	Year
1.	Ph. D.	Faculty of Pharmacy, Integral University, Lucknow, U.P., 226026, India	Pharmacology	2023
2.	M. Pharm	Faculty of Pharmacy, Integral University, Lucknow, U.P., 226026, India	Pharmacology	2015
3.	B. Pharm	Faculty of Pharmacy, Integral University, Lucknow, U.P., 226026, India	Pharmacy	2013
4.	12 th	UP Board, GIC, Allahabad	English, Physics, Chemistry & Biology	2005
5.	10 th	UP Board, SPIC, Kaushambi	English, Mathematics, Science, Social Science & Urdu	2003

Declaration: All the information furnished in this document is true to best of my knowledge.

Date: 01-10-2023

(Asad Ahmad)