

Dr. Anupriya Adhikari

Email: anupriyaadhikari2@gmail.com; anupriyamahar@gmail.com

Tel: 7668832330; 8383031221

Address: House No. 1382, Suraksha Enclave 1, Eldeco 2, Raebareilly road, Lucknow-226025, Uttar Pradesh



Career Objective

- Seeking a challenging and rewarding opportunity in an organization of repute which recognizes and utilizes my true potential.
- Dedicated towards creating a positive learning environment for making a difference in student's lives through superior teaching skills.

Outline

- Sincere and versatile professional with **6 years of experience** in Research & Development; Worked with Eminent Research Institutes like INMAS-DRDO and CIMAP-CSIR.
- Extensive research experience in Medicinal chemistry.
- Focused and hardworking professional equipped with thorough knowledge and technical understanding coupled with an analytic bent of mind to take challenging assignments.

Skills and Accomplishments

- Awarded **D S Kothari Post-Doctoral Fellowship** for Project entitled "Synthesis and Evaluation of Novel TSPO (18kDa) Markers for Inflammatory Conditions in Peripheral Organs" in October 2018.
- Awarded **DRDO Fellowship** in 2011 in Institute of Nuclear Medicine and Allied Sciences (INMAS), DRDO, Delhi (Research scholar; March 2011-April 2015).
- **Department topper** in M.Sc. Chemistry (2009), Gurukul Kangri University, Haridwar, Uttarakhand.
- Awarded Travel Grant from CSIR for **European Association of Nuclear Medicine (EANM), October 2014, Gothenburg, Sweden** (Poster Presentation).
- Hands on experience in different instruments like- High resolution-mass spectrometer(HRMS), Gas Chromatography(GC), Gas Chromatography-Mass Spectrometer(GC-MS), Potentiometer, Polarimeter, Potentiometer, UV-Vis Spectrophotometer, Refractometer, Conductometer, pHmeter, Rota-evaporator etc.

Area of Interest

- ✓ Medicinal Chemistry
- ✓ Analytical Chemistry
- ✓ Synthetic Organic Chemistry
- ✓ Computational chemistry

Educational Qualification

Degree	Year of Passing	University/Board	Subjects	Percentage/ Division
10 th	2002	CBSE	Science, Maths, English, Hindi, Social Studies, Punjabi.	78% (I st Div.)
12 th	2004	CBSE	Physics, Chemistry, Maths, Biology, English.	73% (I st Div.)
B.Sc.	2007	University of Delhi, Delhi, India (SGTB Khalsa College)	Physics, Chemistry, Maths, English	78% (I st Div.)
M.Sc.	2009	Gurukula Kangri Vishwavidyalaya, Uttarakhand, India	Chemistry	80% (I st Div.)
PhD	2015	Institute of Nuclear Medicine and Allied Sciences, DRDO, Delhi, India & Gurukula Kangri Vishwavidyalaya, Uttarakhand, India	Chemistry	By Thesis

Ph. D. Thesis

Adhikari A. (2015) *Synthesis and Characterization of Bifunctional Chelating Agents and their Application in Development of Targeted Molecular Imaging*. Gurukul Kangri Vishwavidyalaya, Haridwar, Uttarakhand, India. Supervisors: Dr. A. Shukla (Gurukul Kangri Vishwavidyalaya) and Dr. A. K. Mishra (Institute of Nuclear Medicine and Allied Sciences, DRDO, Delhi).

Employment / Research Experience

S. No.	Organization	Designation	Duration	
			From	To
1	Institute of Nuclear Medicine and Allied Sciences, DRDO, Delhi	Research Fellow	March 2011	March 2015
2	Bhartiya Vidyapeeth College of Engineering, Paschim Vihar, Delhi	Guest Faculty	August 2015	November 2015
3	CSIR-Central Institute of Medicinal and Aromatic Plants, Lucknow	Research Fellow	January 2018	June 2108
4.	Babasaheb Bhimrao Ambedkar University, Lucknow, Uttar Pradesh	D S Kothari Post-Doctoral Fellow	December 2018	Till Date

Training Courses/ Workshop

- “**Drug Discovery workshop series on Stardrop and SeeSAR**” organized by Zastra innovations Bengaluru from 6 July 2020 to 10 Aug 2020.
- “**Computational Chemistry Webinar Series**” organized by Zastra innovations Bengaluru from 8 July 2020 to 12 Aug 2020.

- Participated in AISNP Webinar Lecture Series on the topic of “**Dust Explosions**” delivered by Dr. Kingsly Ambrose, Associate Professor, Department of Agricultural and Biological Engineering, Purdue University, held on 29 June, 2020, organized by Amity International Society for Natural Products, Health & Allied Sciences Domain, Amity University Uttar Pradesh.
- Participated in online quiz conducted by Department of chemistry, BBAU, Lucknow on “**Coronavirus Disease (COVID-19) Pandemic Awareness Online Quiz-2020**” on 10 June 2020.
- Two days workshop organized by Dr. Shakuntala Misra National Rehabilitation University, Lucknow entitled “**NMR and its Application in Chemical Pharmaceutical and Medical Science**” on 5-6 April 2019.
- Five days workshop organized by Shri Ramswaroop Memorial University (SRMU Lucknow) entitled “**Important Techniques for Characterization of Molecules**” on 25-29 March 2019.
- Two days Workshop by University Science Instrumentation Centre (USIC) Babasaheb Bhimrao Ambedkar University, Lucknow entitled “**Winter Training School on Instrumentation and Characterization (TRASIC)**” on 30-31 January 2109.
- One week training course by Bhabha atomic centre of research centre (BARC) entitled “**Radiation safety aspects in research application of ionizing radiation**” on 9-17 September 2013.
- Workshop entitled “Training School on Ge-68 / Ga-68 Generators from 4-5th March 2013 in INMAS, DRDO, Delhi.
- A 3 months project work entitled “**Spectral Analysis of MAO antagonist for designing Novel Drug Molecule for Neurological Application**” during Master’s Degree (2007) in INMAS, DRDO, Delhi.
- One month (2006) project training entitled “**Spectroscopic Study of Interaction of Hoechst 33258 with Bovine Serum Albumin**” in INMAS, DRDO, Delhi.

Publications

- **Anupriya Adhikari***, Priya Singh, Kamalesh S Mahar, Manish Adhikari, Bhawana Adhikari, Ming-Rong Zhang and Anjani K Tiwari*. Mapping of Translocator Protein (18 kDa) in Peripheral Sterile Inflammatory Disease and Cancer through PET Imaging. molecular pharmaceuticals. Just accepted. 2021. (IF 4.3)
- Adhikari M., Adhikari B., **Adhikari A.**, Yan D., Soni V., Sherman J., Keidar M. (2020) Cold Atmospheric Plasma as a novel therapeutic tool for the treatment of brain cancer. *Current pharmaceutical design*, 26(19):2195–2206. doi <http://dx.doi.org/10.2174/1381612826666200302105715>. (IF: 2.208).
- **Adhikari A.**, Tiwari A. K., Shukla A., Mishra A. K. and Datta A. (2019) Synthesis and Preclinical Evaluation of Radioligand, DO3A-Et-RPAR for Imaging NRP-1 Specific Tumor. *Chemistry Select*, 4(44):12950–12954. doi.org/10.1002/slct.201902556. (IF: 1.811).

- **Adhikari A.**, Kumari N., Adhikari M., Kumar N., Tiwari A. K., Shukla A., Mishra A. K. and Datta A. (2017) Zinc Complex of Tryptophan Appended 1,4,7,10-Tetraazacyclododecane as Potential Anticancer Agent: Synthesis and Evaluation. *Bioorganic & Medicinal Chemistry*, 25:3483–3490. doi:10.1016/j.bmc.2017.04.035 (IF: 2.850).
- Adhikari M., Negi B., Kaushik N., **Adhikari A.**, Al-Khedhairi A. A., Kaushik N. K and Choi E. H. (2017) T-2 mycotoxin: toxicological effects and decontamination strategies. *Oncotarget*, 8:33933–33952. doi: 10.18632/oncotarget.15422 (IF: 5.168).
- **Adhikari A.** & Mahar K. S. (2016) DNA Targeted Anthraquinone Derivatives as Anticancer Agents. *International journal of pharmacy and pharmaceutical sciences*, 8:17–25.
- Kadiyala K. G., Datta A., Tanwar J., **Adhikari A.**, Kumar B. S. H., Chuttani K., Thirumal M. and Mishra A. K. (2015) Metal Based Imaging Probes of DO3A-Act-Met for LAT1 Mediated Methionine Specific Tumors: Synthesis and Preclinical Evaluation. *Pharmaceutical Research* 32(3):955–967. doi: 10.1007/s11095-014-1509-x (IF: 3.242).
- **Adhikari A.**, Datta A., Chuttani K., Rawat H., Shukla A. and Mishra A. K. (2015) Preliminary Evaluation of an Anthraquinone Conjugated DOTA Derivative as SPECT Agent. *International Journal of Pharmacy and Pharmaceutical Sciences* 7(4):85–89.
- **Adhikari A.**, Datta A., Adhikari M., Chauhan K., Chuttani K., Saw S., Shukla A. and Mishra A. K. (2014) Preclinical Evaluation of DO3A-Act-AQ: A Polyazamacrocyclic Monomeric Anthraquinone Derivative as a Theranostic Agent. *Molecular Pharmaceutics* 11(2):445–456. doi: 10.1021/mp4004089 (IF: 4.321).
- Chauhan K., Datta A., **Adhikari A.**, Chuttani K., Singh A. K. and Mishra A. K. (2014) ⁶⁸Ga Based Probe for Alzheimer's Disease: Synthesis and Preclinical Evaluation of Homodimeric Chalcone in β -Amyloid Imaging. *Organic and Biomolecular Chemistry* 12:7328–7337. doi: 10.1039/c4ob00941j (IF:3.550).

In Communications

- ❖ **Anupriya Adhikari**, Priya Singh, Kamalesh S Mahar, Manish Adhikari, Bhawana Adhikari, Ming-Rong Zhang and Anjani K Tiwari. Mapping of Translocator Protein (18 kDa) in Peripheral Sterile Inflammatory Disease and Cancer through PET Imaging. *Molecular Pharmaceutics*, mp-2021-00002w.
- ❖ **Anupriya Adhikari**, Anwesh Pandey, Devesh Kumar, Anjanji K Tiwari. Determination of Hybrid TSPO Ligands with Minimal Impact of SNP (rs6971) through Molecular Docking and MD Simulation Study. *Letters in Drug Design and Discovery*, BMS-LDDD-2020-294.

Book Chapter

- ❖ Adhikari, A. and **Mahar K. S.** (2018) Reetha: Bahumuly Aaudyogik Evam Aushadhiya Vriksh. In: H. C. Andola (Ed.), *Uchh Gunwatta Wale Aushadhiya Evam Sagandh Paadapo Ki Krishikaran Takneek Tatha Unke Upyog*. BlueRose Publishers, New Delhi. pp 96-103. (ISBN 978-93-87996-49-6) (In Hindi).
- ❖ Manish Adhikari, Bhawana Adhikari, **Anupriya Adhikari**, Dayun Yan, Vikas Soni, Jonathan H. Sherman, Michael Keidar. *Combination drug delivery using Cold Atmospheric Plasma technology*. Nanocarriers for the Delivery of Combination Drugs. <https://doi.org/10.1016/B978-0-12-820779-6.00008-6>

Memberships

Life Member of Indian Science Congress Association (ISCA)

Associate member of Asian Association of Sugar Cane Technologists (AASCT)

Conferences Attended

- **Adhikari A.** and Tiwari A. K. (2019) Microwave Assisted Synthesis of Acetamido-Benzoxazolone based TSPO Ligand for Positron Emission Tomography. **Global Conference on the Control of Green House Gases at the Source by Physical and Chemical Technology (GCGHGSPCT)**, BBAU, Lucknow, **Oral Presentation**.
- Singh D., **Adhikari A.**, Singh P. and Tiwari A. K. (2019) Microwave Radiation Assisted Synthesis of Serotonin (5-HT_{1A} / 5-HT₇) Receptor Ligands. **Global Conference on the Control of Green House Gases at the Source by Physical and Chemical Technology (GCGHGSPCT)**, BBAU, Lucknow, **Poster Presentation**
- Singh P., **Adhikari A.**, Singh D. and Tiwari A. K. (2019) Green Synthesis of Third Generation TSPO Ligand. **Global Conference on the Control of Green House Gases at the Source by Physical and Chemical Technology (GCGHGSPCT)**, BBAU, Lucknow, **Poster Presentation** (Best Poster Award).
- **Adhikari A.**, Datta A., Chuttani K., Chauhan K., Kadiyala K. G. and Mishra A. K. (2014) Preliminary Evaluation of an Anthraquinone Derivative as SPECT Radiopharmaceutical for Tumor Imaging. **Society of Nuclear Medicine India (SNMI)**, Kolkata, **Oral Presentation**.
- **Adhikari A.**, Datta A., Chuttani K., Chauhan K., Kadiyala K. G., Shukla A. and Mishra A. K. (2014) Potential Radiopharmaceutical for Imaging LAT1 Dependent Tumors. **European Association of Nuclear Medicine (EANM)**, Sweden, **Poster Presentation**.
- **Adhikari A.**, Shukla A. and Mishra A. K. (2014) Preclinical Evaluation of Polyazamacrocyclic Monomeric Anthraquinone Derivative (DO3A-Act-AQ) For Theranostic Application. **National Conference on Recent Advances in Biosciences and Drug Discovery**, Department of Pharmaceutics, Gurukul Kangri Vishwavidyalaya, Haridwar, Uttarakhand, **Oral Presentation**.
- **Adhikari A.**, Chauhan K., Datta A., Shukla A. and Mishra A. K. (2013) Preclinical Evaluation of Anthraquinone Based Macrocylic DO3A-Act-AQ-68Ga: A Potential Probe for PET Imaging. **Second World Congress on Gallium-68 (SWC)**, PGIMR, Chandigarh, **Poster Presentation**.
- **Adhikari A.**, Chauhan K., Datta A., Katiyar N. and Mishra A. K. (2012) Bis-Trp-NPHE-DO2A: A Potential PET Probe for TPH1 Receptor: Synthesis, Characterization and Preclinical Evaluation. **European Association of Nuclear Medicine (EANM)**, **Poster Presentation**.
- **Adhikari A.**, Chauhan K., Datta A. and Mishra A. K. (2011) Synthesis and Evaluation of Estradiol Conjugate with Macrocylic chelate (DO3A-Act-Est) as SPECT/PET Radiopharmaceutical for Tumor Imaging. **European Association of Nuclear Medicine (EANM)**, **Poster Presentation**.

Personal Information

Date of birth: 23.09.1986, Delhi; Married

Languages Known: English, Hindi and Punjabi