


## CENTRAL UNIVERSITY OF JAMMU

<b>First Name</b>	<b>INDRANIL</b>	<b>Middle Name</b>		<b>Last Name</b>	<b>CHATTERJEE</b>	<b>Photograph</b>
<b>Title &amp; Designation</b>	<b>Assistant Professor</b>					
<b>Address</b>	<b>Dept. of Chemistry &amp; Chemical Sciences</b> <b>Central University of Jammu</b> <b>Bagla (Rahya-Suchani),</b> <b>Jammu, J &amp; K.</b>					
<b>Phone Number</b>						
<b>Office</b>	+ 91-9123928582					
<b>Residence</b>						
<b>Mobile</b>	+ 91-9123928582					
<b>Email</b>	<a href="mailto:indranil.che@cuammu.ac.in">indranil.che@cuammu.ac.in</a> ; <a href="mailto:indranilchatterjee00@gmail.com">indranilchatterjee00@gmail.com</a>					
<b>Web-Page</b>						
<b>Educational Qualifications:</b>						
<b>Degree</b>	<b>Institution</b>				<b>Year</b>	
<b>10<sup>th</sup></b>	MAKARDAHA BAMASUNDARI INSTITUTION (WBBSE)				2007	
<b>10+2</b>	MAKARDAHA BAMASUNDARI INSTITUTION (WBCHSE)				2009	
<b>B.Sc. (Hons.)</b>	Narasinha Dutt College, <b>University of Calcutta</b> , West Bengal, INDIA.				2012	
<b>M.Sc.</b>	Department of Chemistry, <b>Presidency University</b> , Kolkata, West Bengal, INDIA.				2014	
<b>Ph.D.</b>	<b>Central Drug Research Institute (CSIR-CDRI, Lucknow) &amp; JNU</b>				2024	
<b>Career Profile:</b>						
<b>04/2025- Onwards</b> : Assistant Professor, Department of Chemistry and Chemical Sciences, <b>Central University of Jammu</b> , Jammu, India.						
<b>09/2024- 03/2025</b> : Associate Research Scientist, <b>Sai Life Sciences Limited</b> , Hyderabad, Telangana, India.						
<b>08/2021- 07/2024</b> : Senior Research Fellow, Medicinal and Process Chemistry Division, <b>CSIR-CDRI</b> , Lucknow, U.P.,INDIA.						
<b>12/2021- 03/2022</b> : Special Auditing Student, <b>Hiroshima University, Japan</b> under ILDP program.						
<b>07/2019- 07/2021</b> : Junior Research Fellow, Medicinal and Process Chemistry Division, <b>CSIR-CDRI</b> , Lucknow, U.P., INDIA.						
<b>10/2016 – 06/2017</b> : Project Assistant-II, Medicinal and Process Chemistry Division, <b>CSIR-CDRI</b> ,						

Lucknow, U.P., INDIA.

#### Administrative Assignments:

- ❖ Member of Institute Innovation Council (IIC)-8.0.
- ❖ Member of Board of Studies of the Department of Chemistry and Chemical Sciences w.e.f. April-2025-till date.
- ❖ Member of Departmental Research Committee (DRC) w.e.f. 24<sup>th</sup> April 2025-till date.
- ❖ Member of Research Advisory Committee.
- ❖ Member of Technical Committee.
- ❖ Member of Hackathon 2025 Committee.

#### Areas of Interest / Specialization:

- Atom-economic and cost-effective synthesis of Drug molecules (API Synthesis)
- Design synthesis and biological evaluation of small molecule libraries as target specific anti-cancer agents. Total synthesis and biological exploration of natural product molecules
- Development of new methodology based on sulphur chemistry
- Bucky-Bowl Derived Hydrogelators with Bifunctional chelating agents for removal of Toxic materials and Drug Delivery
- Drug development based on bioinformatic study and structure-based drug design.

#### Subjects Taught:

**Ph.D. course work :** Research and Publication Ethics.

**Graduation level :** Physical Chemistry (Kinetic theory of gases, 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> law of Thermodynamics, Thermochemistry, Chemical Kinetics, System of variable composition)

**Post Graduation level :** Physical Chemistry (Statistical Thermodynamics, Electrochemistry, Phase rule, Colligative property)

**Post Graduation level :** Organic Chemistry (Structure and bonding, Aromaticity, Reactive intermediates, Mechanistic aspects, stereochemistry and conformational analysis)

#### Research Guidance:

**Ph.D. :** 01 (Ongoing)  
**M.Sc. (Project) :** 03 (Ongoing)

#### Publications Profile:

##### Research Paper

- [1] Bucky-bowl Derived Unnatural Amino Acids and Peptides Synthesis and Substituent Effect on Bowl Inversion Dynamics and Electronic Structure; Singh, P.; Maji, S.; **Chatterjee, I.**; Vaishnav, J.; Sakurai, H.; Ampapathi, R. S.; Panda, G. *Chemistry Select*, **2025**, *10*, e202500744. <https://doi.org/10.1002/slct.202500744>. (I.F. = 2.0)

- [2] Corannulene Amino Acid Derived Water Soluble Amphiphilic Buckybowl as Broad- Spectrum Membrane Targeting Antibacterial Agents; Maji, S.; Akhtar, S.; Halder, S.; **Chatterjee, I.**; Verma, D. P.; Verma, N. K.; Saroj, J.; Saxena, D.; Maitra, R.; Sharma, J.; Sharma, B.; Sakurai, H.; Mitra, K.; Chopra, S.; Ghosh, J. K.; Panda G.; *J. Med. Chem.* **2024**, *67*, *17*, 15041–15060. DOI-10.1021/acs.jmedchem.4c00666. **(I.F. = 6.9)**
- [3] Metal-free, Thiolation of Sulfonyl Hydrazone with Thiol: Synthesis of Thio-chroman and Diarylmethyl Thioethers; Ali K.; **Chatterjee I.**; Panda G.; *Org. Biomol. Chem.*, **2023**, *21*, 7447–7458. DOI- 10.1039/d3ob01239e. **(I.F. = 2.9)**
- [4] A Scalable and Eco-friendly Synthesis of Poly (ADP-Ribose) Polymerase Inhibitor Olaparib; **Chatterjee I.**; Roy D.; Panda G.; *Green Chem.*, **2023**, *25*, 9097–9102. DOI- 10.1039/d3gc02617e. **(I.F. = 9.3)**
- [5] Palladium-Catalyzed Regioselective Synthesis of Mono and Bis(arylthiol) Alkenes from Propargyl Carbonate and Thiophenol; **Chatterjee, I.**; Panda, G.; *Org. Biomol. Chem.*, **2023**, *21*, 3800–3810. DOI-10.1039/d3ob00167a. **(I.F. = 2.9)**
- [6] A Synthetic Overview of Benzoxazines and Benzoxazepines as Anticancer Agents; **Chatterjee, I.**; Ali, K.; Panda, G.; *ChemMedChem*, **2023**, *18*, e202200617. DOI- 10.1002/cmdc.202200617. **(I.F. = 3.6)**
- [7] Total Synthesis of Selected Tyrosine-Derived Alkaloids: A Comparative Analysis of Tyrosine-Based Chiral Pool vs Other Synthetic Approaches; Banerjee, A.; **Chatterjee, I.**; Panda, G.; *Chemistry Select*, **2022**, *7*, e202202750. DOI-10.1002/slct.202202750. **(I.F. = 2.0)**
- [8] One-Pot Synthesis of N-monoalkylated Plinabulin Derivatives via Multicomponent Protocol and their Application as Anticancer Agents; Ganesh, A.; Chaturvedi, P.; Karkara, B. B.; **Chatterjee, I.**; Datta, D.; Panda, G.; *Journal of Molecular Structure*, **2021**, *1229*, 129830. DOI-10.1016/j.molstruc.2020.129830. **(I.F. = 4.0)**

#### Patents

- [1] 2-Pyridone-Based Quinazoline Compounds as Dual EZH2 and EGFR Inhibitors; Banerjee, A.; Satrusal, S.; **Chatterjee, I.**; Rai, P.; Khan, M. A.; Biswas, A.; Bhatta, R. S.; Gayen, J. R.; Nazir, A.; Panda, G.; Datta, D.; IN202411036881, dated 09/05/2024.
- [2] Novel Purine-Based Phthalazinones as Dual PARP and mTOR Inhibitors and use Thereof; **Chatterjee, I.**; Satrusal, S. R.; Mandal, B.; Banerjee, A.; Meena, S.; Biswas, A.; Bhatta, R. S.; Panda, G.; Datta, D.; IN202411038350, dated 15/05/2024.
- [3] Amino acids Based Poly(adp-ribose) Polymerase (PARP) Inhibitors, Process for Preparation and Use Thereof; Panda, G.; Satrusal, S. R.; **Chatterjee, I.**; Barman, S.; Ali, K.; Kumar, S.; Sinha, S.; Meena, S.; Gayen, J. R.; Nazir, A.; Bhadauria, S.; Datta, D.; IN202411019816, dated 15/03/2024 & PCT/IN2026/050400.
- [4] Process for Preparation of Phthalazinone Derivatives and Uses Thereof; Roy D.; **Chatterjee, I.**; Panda, G.; IN202211013919, dated 14/03/2022.

**More Information: (Scholar Pages)**

More information & auxiliary documents can be found at (Dr. Indranil Chatterjee):

**Google Scholar:** <https://scholar.google.com/citations?user=GN7JxboAAAAJ&hl=en>

**Research gate:** <https://www.researchgate.net/profile/Indranil-Chatterjee-16>

**ORCID ID:** <https://orcid.org/0000-0001-8685-7328>

#### Conference / Workshops/Training Organized:

- ❖ **Organizing committee member** in International Conference on Recent Advances in Chemical Sciences (RACS-2026); Feb. 12 - 13, 2026 organized by Department of Chemistry and Chemical Sciences, Central University of Jammu, Jammu.
- ❖ **Co-Convener for the workshop** on “Protecting IPR and IP Management for Start-ups,” organized by the Department of Chemistry and Chemical Sciences, Central University of Jammu, Jammu, in collaboration with the Institution’s Innovation Council (IIC, an initiative of the Ministry of Education), held on 16<sup>th</sup> April 2026.
- ❖ **Co-Convener for Intra-Institutional B-Plan Competition & Reward Best Innovations** on “Integration of Artificial Intelligence in Contemporary Scientific Research”, in Department of Chemistry and Chemical Sciences, Central University of Jammu, Jammu organized with collaboration with Institution’s Innovation Council (IIC, an initiative of the Ministry of Education) on 24<sup>th</sup> April, 2026.
- ❖ **Co-Convener for Mentoring Event:** Demo Day of Business Plans & Mentor Linkages on “The real Journey After Post-graduation: Lessons from the Ground”, in Department of Chemistry and Chemical Sciences, Central University of Jammu, Jammu organized with collaboration with Institution’s Innovation Council (IIC, an initiative of the Ministry of Education) on 28<sup>th</sup> April, 2026.

#### Conference/Workshops/Training attended as Faculty Member:

- ❖ Participated in the Demo Day of Business Plans & Mentor Linkages on “**The real Journey After Post-graduation: Lessons from the Ground**”, in Department of Chemistry and Chemical Sciences, Central University of Jammu, Jammu organized with collaboration with Institution’s Innovation Council (IIC, an initiative of the Ministry of Education) on 28<sup>th</sup> April, 2026.
- ❖ Participated in the **Protecting IPR and IP Management for Start-ups** in Department of Chemistry and Chemical Sciences, Central University of Jammu and Institution’s Innovation Council (IIC, an initiative of the Ministry of Education) on April 16, 2026.
- ❖ Attended and presented a poster on “*A scalable and eco-friendly total synthesis of poly (ADP-ribose) polymerase inhibitor Olaparib*” at the International Conference on Chemistry for Nature Inspired initiatives in Chemical Trends (**NIICT-2024**), 7th–9th March 2024, CSIR-IICT,

Hyderabad, India.

- ❖ Attended and presented a poster at 8<sup>th</sup> International Symposium on Current Trends in Drug Discovery and Research 2022 with theme to elaborate on the cutting-edge advances in fundamental disease biology of ageing associated disorders (cardio- metabolic diseases, neurodegeneration, bone health, cancer) (**CTDDR-2022**) held on 12-14<sup>th</sup> March, 2022, CSIR-CDRI, Lucknow, India.
- ❖ Admitted and completed ILDP Online Internship from Hiroshima University, Japan as a special auditing student under the International Linkage Degree program (**ILDP**) with “A” grade during the period of 01/12/2021 to 11/03/2022.
- ❖ Attended on Versatile Utilization at the Joint Symposium between CSIR-CDRI and HiU-P-DDS Sponsored by **ILDP**, Hiroshima University, Japan, 5<sup>th</sup> March 2021.

#### Research Projects (Major Grants/Research Collaboration):

**Title:** Discovery of Selective and orally Bioavailable small molecule for the Treatment of Triple Negative Breast Cancer.

**Duration:** 2 years (2026-2028)

**Total cost:** 8.0 Lakhs (No: JKST&IC/28/R&D/2025/2684-89)

**Principal Investigator:** Dr. Indranil Chatterjee

**Funded By:** JKST&IC

#### Awards and Distinctions:

- ❖ **2026:** Innovation Ambassador (IA) training advanced level certificate conducted in online mode by MoE'S Innovation Cell & AICTE during the IIC calendar 2025-2026.
- ❖ **2026:** Innovation Ambassador training foundation level certificate conducted in online mode by MoE'S Innovation Cell & AICTE during the IIC calendar 2025-2026.
- ❖ **2026:** Award of appreciation for organizing the international conference on Research Advances in Chemical Sciences (RACS-2026) in Central University of Jammu (CUJ), J&K.
- ❖ **2026:** Successful completion Certificate of “Online 4<sup>th</sup> Faculty Induction Program” with grade ‘A’ under Malaviya Mission Teacher Training Programme (MMTTP) of University Grants commission (UGC) organized by Malaviya Mission Teacher Training Centre (MMTTC) of Shri Mata Vaishno Devi University, Katra, J&K.
- ❖ **2025:** NPTEL-AICTE Faculty Development Programme certificate award for successfully

completing the course Analytical Chemistry with a consolidated score of 76%.

- ❖ **2025:** NPTEL-AICTE Faculty Development Programme certificate award for successfully completing the course Application of Spectroscopic Methods in Molecular Structure Determination with a consolidated score of 75%.
- ❖ **2025:** Obtained offered from post-doctoral fellowship from POSTECH (Pohang University of Science and Technology), South-Korea.
- ❖ **2025:** CSIR-CDRI certificate of appreciation for filling of Patent. (IN202411036881, dated 09/05/2024)
- ❖ **2025:** CSIR-CDRI certificate of appreciation for filling of Patent. (IN202411038350, dated 15/05/2024)
- ❖ **2024:** CSIR-CDRI certificate of appreciation for filling of Patent. (IN202411019816, dated 15/03/2024)
- ❖ **2024:** Best poster presentation award at NIICT 2024 conference, Hyderabad.
- ❖ **2021:** Completion Certificate of Online Internship program from Hiroshima University, Japan.
- ❖ **2020:** GATE-Chemistry. (AIR-223) (Fourth time)
- ❖ **2019:** CSIR-NTA-NET (Sixth time)
- ❖ **2018:** CSIR-NET-JRF. (Rank-49)
- ❖ **2017:** CSIR-NET-LS
- ❖ **2016:** GATE-Chemistry (AIR-203) & CSIR-NET-LS (Rank-39)