

CURRICULUM VITAE

Dr. Ashok Kumar Ranjan

Assistant Professor

Department of Chemistry, CMP College,

University of Allahabad, Allahabad.

DOB- 07/07/1983

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Research Activities

Ph.D. (Chemistry) from Department of Chemistry, University of Lucknow, Lucknow in 2015

Thesis Title:

“Isolation of biologically active oligosaccharides from milk of *ovies aries* and their structure elucidation”

Area of Specialization

Natural Product Chemistry,

Carbohydrate (Oligosaccharides), Essential oil

Chromatography (Thin Layer, column and HPLC)

NMR (1D & 2D i.e. HSQC, HMBC, TOCSY, COSY)

Mass Spectrometry

Academic Background

M.Sc. Chemistry from University of Allahabad in 2007

B.Sc. from PG College, Ghazipur affiliated from V.B.S. University, Jaunpur in 2005

Intermediate from Govt. Inter College, Allahabad in 2000

High school from Govt. Inter College, Allahabad in 1998

Teaching Experience:

1. Assistant professor in Department of Chemistry, CMP Degree College, Prayagraj from 09/02/2018 to till date.
2. One-year teaching experience for B.Sc.-M.Sc. integrated course at Dr. Baba Saheb Bhim Rao Ambedkar University-Lucknow
3. Two-year teaching experience in Chemistry Department at Harcourt Butler Technical University-Kanpur. (2015-2017)

Publications:

1. **Ashok Kumar Ranjan**, Mayank Sharma, Manisha Shukla, Desh Deepak, Structure Elucidation of a Novel Pentasaccharide Ariesose from *Ovies Aries* Milk by 2-Dimensional NMR and Mass Spectrometry, *Trends In Carbohydrate Research*, Vol.15, No.2 (2023) 9-21.
2. Akanksha Yadav, **Ashok Kumar Ranjan**, Sunil Kumar Yadav, Review on Chemical Composition of Essential Oil Extracted from Aromatic Plants by Hydrodistillation and Steam Distillation, *Eur. Chem. Bull.* 2023, 12 (8),1581-1600.

- Seraj Ahmad, Manoj Kumar, Akanksha Yadav, Vimal Kumar, **Ashok Kumar Ranjan*** and Akram Ali* Synthesis, Structure and Redox Property of Catecholato-based Ruthenium Complex, *Vijnana Parishad Anusandhan Patrika*-Vol 65, No. 3-4, July & Oct, 2022: ISSN No.: 0505-5806.
- Ashok Kr. Ranjan**, Rinky Srivastava, Anakshi Khare and Desh Deepak. Synthesis of mono and di digoxigenin and strophanthidin cardiac glycosides. *Chemistry & biology interface*, 7,5, 311-322, **2017**.
- Ashok Kr. Ranjan**, and Desh Deepak, A review on nmr libraries of natural and synthetic monosaccharides, oligosaccharides and glycosides. *Chemistry & biology interface*, 7,5,255-285, **2017**.
- Ashok Kr. Ranjan**, Honey Sinha and Desh Deepak*, Obtention of Novel Fucosylated Oligosaccharides from Sheep Milk, *International Journal of Carbohydrate Research*; 7(1), 1-3, **2017**.
- Ashok Kr. Ranjan**, Ramendra S. Rathore, Desh Deepak*, Anakshi Khare, Ragini Sahai, V. M. L. Srivastava., Isolation of Novel Hexa and Heptasaccharide from Immunostimulant Oligosaccharide Fraction of Donkey's Milk., *Asian journal of medicinal and organic chemistry*, 1(2), 55-60, **2016**.
- Ashok Kr. ranjan**, Ashish kr Singh, Gaurav Srivastava and Desh Deepak*, Isolation of two novel yak milk oligosaccharides and their DFT studies., *Journal of Molecular Structure*. 1108, 87-91, **2016**.
- Ashok Kr. Ranjan**, Mayank Agnihotri and Desh Deepak*. Novel Heptasaccharide isolated from Sheep Milk. *Journal of biological and chemical research*. 32(2), 872-877, **2015**.
- Ashok Kr. Ranjan** and Desh Deepak*. Isolation and purification of sheep milk oligosaccharide as therapeutic agents, *Journal of biological and chemical research.*, 32(2), 455-465, **2015**.

Book Chapters:

- Isolation and structure elucidation of milk oligosaccharides using different techniques, Ashok Kumar Ranjan and Deepa Srivastava, page no: 147-153, *Insights in chemistry and applied sciences*, 978-93-93647-07-8, (First print Publication), 2022.
- Recent techniques used in elucidation of milk oligosaccharides, Ashok Kumar Ranjan, *Chem-world (2020-22)*, 978-93-93647-09-2 (First print Publication), 2022.
- Sheep Milk oligosaccharides: Isolation and characterization, Ashok Kumar Ranjan, *Advances in chemical & Applied sciences*, 978-93-88018-18-0 (First print Publication) 12/02/2020.
- Environmental Challenges & Issues in present Scenario*, 978-93-88018-18-0 (First print publication) 2019.

Seminars/Conferences:

- Delivered an Oral** presentation in international conference on Advances in Chemistry and Biology of Carbohydrate, Organized by Forest research Institute, Dehradun. On 4-5 Dec-2021.
- Paper presented** in three days international conference CARBO-XXXIV "Emerging frontiers in Carbohydrate chemistry and Glycobiology" held at Department of Chemistry, University of Lucknow, Lucknow during 5-7 December, 2019.
- Delivered lecture** in the Three days national seminar on “**Innovative Frontiers in Applied sciences**” Organized by Department of chemistry, CMP College, Prayagraj During September 26-28, 2019 held at Vijnana Parishad Prayag, Prayagraj.
- Paper presented** in three days international conference CARBO-XXXIII, Sweet'18: Glyco-chemistry, Biology and Technology, IISER, Kolkata during 19 to 21 December 2018.
- Delivered lecture** in the national seminar on “**Present scenario of environmental challenges & issues**” held on 16th December, 2018.
- Participated** in One day national Workshop on **Psychological wellbeing** organised by national health Mission and C.M.P. Degree College, University of Allahabad, Prayagraj, November 20, 2018.
- Participated** in one day national seminar on **New Materials and Applications**, organised by the Materials research society of India- Allahabad Chapter, University of Allahabad, October 13, 2018.
- Paper Presented** in **International Conference CARBO-XXXI in Department of Chemistry, University of Delhi**. (14th-16th, Nov-2016) “Isolation and Structure elucidation of fucosylated pentasaccharide from Sheep Milk”.

9. **Paper presented in international conference** on futuristic materials & emerging trends in Chemical Sciences organized by Department of Chemistry, DBS College at **Kanpur University** on (8th -10th Feb, 2016)
10. **Paper presented** in National Symposium on Innovative Methods in Chemistry education in **Chemistry Department at University of Lucknow** (8th-10th Oct-2015). "Isolation of Novel Hexasaccharide from Immunostimulant Oligosaccharide Fraction of Donkey's Milk".
11. **Paper presented** in "**Indian science congress**" at **Mumbai University, Mumbai** on 3rd to 7th Jan. 2015. Published in proceeding on p. no. 136 "Novel oligosaccharide isolated from Sheep's milk".
"Novel pentasacchride isolated from sheep milk"
12. **Paper presented** in National seminar on "Trends in carbohydrate" at (**IISER**) **Mohali** on (29th -31st Dec. 2014). Published in proceeding on p. no. 106 "**Identification of novel Sheep milk oligosaccharide by NMR**"
13. **Paper presented in International seminar on "Recent advances in analytical science" at BHUIIT, Varanasi** (27th -29th March, 2014). Published in proceeding on p. no. 87 "**Structure elucidation of milk oligosaccharide by MASS spectrometry**"
14. **Paper presented** in "**International carbohydrate symposium**" at **Indian Institute of science, Bangalore** (12th -17th Jan. 2014). Published in proceeding on p. no. 265 "**Isolation of two novel oligosaccharides from yak milk**"
15. **Paper presented** in National seminar on "Newer trends in physico-chemical techniques" at Chemistry **Department, University of Lucknow, Lucknow**. (7th-9th Aug. 2013). Published in proceeding on p. no. 23 "**Isolation of novel compounds from oligosaccharide fraction of Chauri Cow milk by physico-chemical techniques**".

Faculty Development courses:

1. Five-day (06-11 Feb, 2017) Faculty Development programme on "**Emerging trends in food and bioprocess Industries**" in Department of Food & Biochemical Technology, **HBTU, Kanpur**.
2. Five-day (22-27 Aug-2016) Faculty Development programme on "**Corrosion control in chemical and allied industries**" in Oil & Paint Technology Department, **HBTU, Kanpur**.
3. Fifteen days (07/02/2019 to 26/02/2019) faculty development programme sponsored by Department of Science and Technology, Govt. of India and EDII, Ahemdabad & conducted by Hardicon limited at Allahabad.
4. One week (22nd -28th Aug -2020) FDP "E-content development & learning management system" organized by Guru Angad Dev Teaching Learning system, SGTB Khalsa College, University of Delhi & SS Khanna Girls Degree College, Prayagraj

UGC Sponsored Programme:

1. Participated in the Refresher course Programme from January 27/01/23-10/02/23 Organized by Jai Narain Vyas University, Jodhpur, Rajasthan and Obtained **Grade A⁺**.
2. Participated in the 120th orientation Programme from July 25, 2018 to August 21, 2018 and Obtained **Grade A**.
3. Participated in the 24th Refresher course Programme from December 10-23, 2019 Organized by Department of Chemistry, University of Allahabad, Allahabad and Obtained **Grade A**.
4. Participated in the online UGC sponsored "Five-day workshop on NAAC" from 23rd -27th August, 2021 organized by UGC-Human Resource Development Centre, University of Allahabad.
5. Participated in Online Training Program on the theme "Teaching Effectively" organized by CALEM, at the UGC HRDC, Aligarh Muslim University, Aligarh from 24th March 2021 to 31st March 2021.
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E-Webinars:

1. The Ganges Quiz-2020, June, 06-2020, An awareness programe on river Ganga jointly organized by Department of chemistry and Library CMP Degree College, Prayagraj.

2. "Covid-19 Awareness Quiz" May, 25-2020, organized by 48 UP BN NCC Gonda and Acharya Narendra Dev Kisan PG College, Gonda.
3. Attended two-day international E-seminar "Chemistry, Biology and Covid-19" June 25-26, 2020 by Department of Chemistry, University of Lucknow, Lucknow.
4. Participation in online social awareness quiz on Covid-19 pandemic" June, 22-2020, by CMP Degree College, Prayagraj.
5. National seminar on "Mental health well-being and Covid-19: Challenges and solutions" June 4th-5th 2020, organized by Dr. Hari Singh Gaur University Sagar, M.P.
6. Attended one day workshop Sep 5th 2020 on "Promotional avenues for Teachers in higher education: CAS regulation-2018" by Guru Angad Dev Teaching Learning system, SGTB Khalsa College, University of Delhi.

P.G. Student Guided:

14 Students