

PRIYANKA

Email: priyanka.phogat1011@gmail.com

Contact No. +91-9582896024

New Delhi, Delhi



EDUCATION QUALIFICATION

Degree	Institution	Year	Percentage /CGPA
Ph.D. Chemistry	Department of Chemistry, University of Delhi	Pursuing	-
M.Sc. Physical Chemistry	Ramjas College, University of Delhi	2019	73.28 %
B.Sc. Chemistry (H)	Rajdhani College, University of Delhi	2016	84.39 %
Class XII	Bhiwani Public School	2013	87.80 %
Class X	City Senior Secondary School	2011	9.20

RESEARCH INTEREST

- ❖ Biophysical and Biochemical aspects of Nucleic Acids, Multistranded DNA Structures (Hairpin, Duplex, Holliday Junction, G-quadruplexes, etc.)
- ❖ Bioinformatics approaches using NCBI, Clustal W, EPD sites, UCSC browser etc.
- ❖ Bimolecular Interactions: DNA-Drug interactions and Molecular Crowding Studies (using UV-Spectroscopy, UV-thermal denaturation, Circular Dichroism, Fluorescence & Gel-electrophoresis)

RESEARCH EXPERIENCE

- ❖ Dissertation in M.Sc. on “Air Pollution in Delhi” undertaken at Department of Chemistry, University of Delhi from January to June 2019, under the guidance of Prof. S. Mozumdar.

LABORATORY TECHNIQUES

- ❖ Circular Dichroism (CD) Spectroscopy
- ❖ Fluorescence Spectroscopy
- ❖ UV-Visible Spectroscopy
- ❖ UV-Thermal Denaturation
- ❖ Polyacrylamide Gel Electrophoresis (PAGE)

PUBLICATIONS

- ❖ Bansal, A., **Phogat, P.**, & Kukreti, S. (2022). A novel G·G·T non-conventional intramolecular triplex formed by the double repeat sequence of *Chlamydomonas* telomeric DNA. *RSC advances*, 12(25), 15918-15924.

CONFERENCES

- ❖ Presented a poster on topic “**Non-Conventional Intramolecular Triplex formed by double repeat of *Chlamydomonas reinhardtii* telomere**” in International Conference on Crossroads of Chemistry, Biology, & Atmospheric Environment: A Modern Prospective. (ICCB 2024) jointly organized by University of Delhi, Indian Science Congress Association (ISCA), Delhi Chapter and The Indian Society of Analytical Scientists-Delhi Chapter, held during February 26-28, 2024. (**Best Poster**)
- ❖ Presented a poster on topic “**Recognition and Stabilization of a G-quadruplex motif at Human *TRPA1* gene**” in International Conference on Crossroads of Chemistry, Biology, & Atmospheric Environment: A Modern Prospective. (ICCB 2024) jointly organized by Department of Chemistry, University of Delhi, Indian Science Congress Association (ISCA), Delhi Chapter and The Indian Society of Analytical Scientists-Delhi Chapter, held during February 26-28, 2024.
- ❖ Presented a poster on topic “**Metal ion-mediated stabilization of G-quadruplex at coding DNA segment of Human *TRPA1* gene**” at Annual Convention of Chemists (60th ACC 2023) organized by Indian Institute of Technology, Delhi on December 20-21, 2023. (**Best Poster**)
- ❖ Presented a poster on topic “**Alkali metal ion mediation of G-Quadruplex stability at coding region of Human *TRPA1* gene**” in “International Organic Chemistry Symposium 2023” organized by Department of Chemistry, University of Delhi, held on October 25, 2023.

- ❖ Participated in National Conference on “Scientific Innovation for Human Wellbeing” jointly organized by Department of Chemistry, University of Delhi & Indian Science Congress Association (ISCA), Delhi Chapter, held on March 17, 2023.
- ❖ Participated in “10th Asian Network for Natural & Unnatural Material (ANNUM-10) 2023” online International Conference organized by Department of Chemistry, University of Delhi, held on February 1, 2023.
- ❖ Attended National Conference on “Recent Trends in Chemistry and Nano-Biotechnology (RTCN-2022)” organized by Department of Chemistry, University of Delhi, held on December 13, 2022.
- ❖ Participated in International Conference on “Nanomedicine: Chemistry Medicine Interface (NCMI-2022)” organized by Department of Chemistry, University of Delhi, held on December 6, 2022.
- ❖ Participated in “9th Asian Network for Natural & Unnatural Material (ANNUM-9) 2022” online International Conference organized by Department of Chemistry, University of Delhi, held on April 8, 2022.

WORKSHOPS & WEBINARS

- ❖ Attended the Workshop on “**NEP 2020: Model Curriculum & Content in Chemistry, Revisiting Chemistry Curriculum for HEIs**” jointly organized by University of Delhi, Ministry of Education, Bhartiya Bhasha Samiti & Uchaha Siksha Sansthan, held on March 14-15, 2024.
- ❖ Attended online author workshop organized by Springer Nature in collaboration with Central Library, University of Delhi, held on August 10, 2023.
- ❖ Attended the International webinar on “**Post-COVID challenges and opportunities for the Chemist**” jointly organized by Indian Science Congress Association (Delhi Chapter) and Department of Chemistry, University of Delhi held on December 28, 2021.
- ❖ Attended the webinar on Popular Science Writing “**AWSAR (Augmenting Writing Skills for Articulating Research)**” organized by DST, GOI & Vigyan Prasar, held on October 14, 2021.

ACHIEVEMENTS

- ❖ Secured **AIR-28 (LS)** in CSIR NET JRF, Dec-2019
- ❖ Qualified GATE-2019

